

**State of California
Department of Consumer Affairs**

January 2025

**DIRECTORY OF
CERTIFIED
INSULATION
MATERIALS**



**Sorted By
TYPE
and
MANUFACTURER**

Bureau of Household Goods And Services

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FOREWORD

California law states that every insulation manufacturer who sells insulation material in California shall hold an insulation manufacturing license issued by the California Department of Consumer Affairs' Bureau of Household Goods and Services (California Business & Professions Code Section (BPC) § 19059.7). In addition, the law states that all insulation sold and installed in California must be certified to be in compliance with California insulation quality standards (BPC § 19165).

The current standards cover 13 types of insulation frequently used in the ceilings, walls, and floors of homes and buildings. Insulation must meet standards for resistance to heat flow (R-value), fire safety, corrosion and fungi resistance; for changes in size, odor, pliability, settling, bond strength and deflection; and for separation by air movement, when appropriate. California law (BPC § 19165) mandates that the Bureau of Household Goods and Services periodically publish and update a DIRECTORY OF CERTIFIED INSULATION MATERIALS, which lists insulation materials certified by the bureau, on the basis of approved laboratory tests, that are in compliance with state law. This directory of insulation materials describes the material and its application, and states the R-value of the material. Although the directory is intended to include all certified material, some materials may have been certified or decertified after the directory was published. The Bureau of Household Goods and Services maintains an up-to-date list of certified insulation materials.

The primary function of the Bureau's quality standards program is to protect consumers by ensuring that:

- claims for product efficiency, properties, and performance are accurate;
- insulation materials are truthfully labeled;
- insulation materials are fire-retardant and safe to use; and
- only certified insulation is sold or installed in California.

If you have any complaints or concerns, please contact the Bureau of Household Goods and Services at (916) 999-2041 or you may e-mail us at: homeproducts@dca.ca.gov.

The bureau inspects the products of manufacturers, distributors, installers, and retailers to determine their compliance with the insulation quality standards. The bureau also conducts independent performance tests of insulation materials sold in the state to assure continued compliance with the quality standards. Insulation is one of the best investments a homeowner can make to save energy. Proper insulation can:

- save as much as one-half on cooling and heating costs;
- reduce the operating time for air conditioning and heating equipment, extending their performance and reducing maintenance;
- allow homes to be cooled and heated with smaller, less expensive equipment;
- make homes more comfortable; and
- add to the resale value of homes.

INTRODUCTION

This directory identifies insulation materials that have been certified as complying with the regulations enforced by the Bureau.

REGULATIONS

The text of the regulations can be found in the California Code of Regulations, Title 24, Part 12, Chapter 12-13. All manufacturers of insulation materials covered by these regulations that have not been certified as complying with the standards, may not market their materials for installation in California. Any person selling uncertified insulation for installation in California violates state law.

RECENT CERTIFICATIONS

To determine if an insulation material has been certified or decertified after this directory was published, contact the Bureau of Household Goods and Services (BHGS) at (916) 999-2041 or you may e-mail us at homeproducts@dca.ca.gov. Mailing address: 4244 South Market Court, Suite D, Sacramento, CA 95834-1243.

OBTAINING DOCUMENTS

Copies of the directory and current regulations are available online from the following links:

Link to directory:

https://bhgs.dca.ca.gov/consumers/ti_directory.pdf

Insulation laws and regulations:

https://bhgs.dca.ca.gov/laws/insulation_regs.pdf

The regulations are also available on the Building Standards Commission's website at:

<https://www.dgs.ca.gov/BSC/Codes>

EXPLANATION OF INFORMATION IN THE DIRECTORY

The following information is included in this directory:

1. Form

Insulation materials are divided into six physical forms: blanket, board, foil, foam and spray, rigid stock, and loose fill. The kind of insulating material marketed in each form is also indicated.

2. Manufacturer and Brand Name

Under each form and kind of insulating material, products are listed in alphabetical order by manufacturer and brand name.

3. Material, Type, Facings

Products are then listed by material and by construction type (whether the product is all one material or contains two or more materials). If a facing is attached to the material, the type of facing is indicated.

4. Primary Use, Usage Exposure, Vapor Barrier

The primary (most frequent) use of the products is stated by the manufacturer. If a product is designed to be fire-resistant when the product is left uncovered, this is indicated in the "Designed for Exposed Applications?" column. If a product is designed to resist moisture, this is indicated in the "Acts as vapor barrier?" column.

5. Labeled Product Thickness

Labeled product thickness is given in decimal inches for boards, battings, and blankets. Manufacturers producing insulation products with the same identification and description in increments of thickness of 1/8 inch may also produce thicknesses less than 1/8 inch, on special order, as products certified by the Bureau.

6. Labeled Thermal Performance

The thermal performance, as labeled on the product and supported by test results, and any lowered R-value, is stated. Thermal performance of building insulations is stated in R-value. Other insulations use K-, C-, or R-values, as appropriate. For loose-fill insulation, spray-applied insulation, field-applied foam, and foam block, thermal performance is shown per inch.

R-value is a measure of insulation effectiveness. The higher the R-value, the higher the insulation effectiveness. R-value also represents resistance to heat flow and can be expressed mathematically as the reciprocal of the U-value. The U-value is the amount of heat in BTUs which moves through a square foot of material for each degree F of temperature difference.

K-value, or conductivity, is the U-value of a material per inch.

C-value, or conductance, is the U-value of the entire thickness of the material.

BTU means British Thermal Unit; a unit of heat equal to the amount of heat required to raise one pound of water one-degree Fahrenheit at one atmosphere pressure or the approximate amount of heat given off by the burning of a wooden match.

This directory is formatted to be able to find a product directly by Manufacturer name and product type.

Click on the Red Tab labeled MFG List to identify the manufacturer and product category (if more than one product), then click on the Manufacturer and the link will take you to the top of the listing for that product under that category.

If you choose to go to a particular type of Insulation (e.g., Blanket, Board), the Manufacturers and products are listed in product type order, then Manufacturer's name order. You can use the 'Find' function of Excel (CTRL-F) to navigate to certain information. Tabs are located at the bottom of the Workbook for each type of Insulation, click on the appropriate tab for the type of insulation you wish to review.

The Brand Code for each Manufacturer is listed on the left of the spreadsheet. Moving the cursor over the brand code brings up a comment box that gives you the full brand code name.

If you have any questions about using this directory, please contact the Bureau of Household Goods and Services at (916) 999-2041 or you may e-mail us at: homeproducts@dca.ca.gov

| Manufacturer | Insulation Type | License Number |
|---|---|----------------|
| Applegate Greenfiber Aquisition, LLC | Cellulose Fiber Loose Fill | T 1548 |
| Applegate Greenfiber Aquisition, LLC | Cellulose Fiber Spray or Field Applied | T 1548 |
| Atlas Molded Products | Polystyrene Board | T 1472 |
| Atlas Roofing Corporation | Polyisocyanurate Board | T 1231 |
| BASF Corporation | Polystyrene Board | T 1533 |
| BASF Corporation | Polyurethane Spray or Field Applied | T 1153 |
| BASF Corporation (Spray-Applied PUF) | Polyurethane Spray or Field Applied | T 1423 |
| Boricel Corporation DBA Bonded Logic, Inc. | Cellulose Fiber Blanket | T 1550 |
| Carlisle Coatings and Waterproofing | Polyisocyanurate Board | T 1501 |
| Carlisle Roof Foam and Coatings | Polyurethane Spray or Field Applied | T 1513 |
| Carlisle Syntec Inc | Polyisocyanurate Board | T 1418 |
| Certainteed Corporation | Mineral Fiber Blanket | T 1023 |
| Certainteed Corporation | Mineral Fiber Board | T 1023 |
| Certainteed Corporation | Mineral Fiber Loose Fill | T 1023 |
| Certainteed Corporation | Mineral Fiber Water Heater Kits, Duct & Pipe Wrap | T 1023 |
| Coverttech Flexible Packaging A Division of Balcan Innovation Inc | Reflective Foil | T 1354 |
| Coverttech Flexible Packaging A Division of Balcan Innovation Inc | Radiant Barrier | T 1354 |
| Creative Polymer Solutions, LLC. | Polyurethane Spray or Field Applied | T 1549 |
| DAP Global Inc. | Polyurethane Spray or Field Applied | T 1343 |
| Duna USA Inc. | Polyisocyanurate Rigid Stock | T 1476 |
| DuPont de Nemours | Polyisocyanurate Board | T 1534 |
| DuPont de Nemours | Polystyrene Board | T 1535 |
| DuPont de Nemours | Polystyrene Rigid Stock | T 1535 |
| DuPont de Nemours | Polyurethane Spray or Field Applied | T 1536 |
| Environmentally Safe Products Inc. | Reflective Foil | T 1281 |
| Fi-Foil Company Inc. | Reflective Foil | T 1390 |
| Fi-Foil Company Inc. | Radiant Barrier | T 1390 |
| Franklin International | Polyurethane Spray or Field Applied | T 1525 |
| GAF Materials Corp | Polyisocyanurate Board | T 1454 |

| Manufacturer | Insulation Type | License Number |
|--|--|----------------|
| General Coatings Manufacturing Corporation | Polyurethane Spray or Field Applied | T 1491 |
| Green Shield Products, LLC. | Polyurethane Spray or Field Applied | T 1552 |
| Henry A Carlisle Company | Cellulose Fiber Blanket | T 1554 |
| Henry A Carlisle Company | Polyurethane Spray or Field Applied | T 1228 |
| Holcim Solutions and Products US, LLC | Polyisocyanurate Board | T 1545 |
| Hunter Panels | Polyisocyanurate Board | T 1420 |
| Huntsman Building Solutions USA LLC | Polyurethane Spray or Field Applied | T 1499 |
| ICP Building Solutions Group | Polyurethane Spray or Field Applied | T 1540 |
| Innovative Insulation Inc. | Reflective Foil | T 1408 |
| Innovative Insulation Inc. | Radiant Barrier | T 1408 |
| Insulfoam | Polystyrene Board | T 1482 |
| Insul-Quilts, Inc. | Mineral Fiber Blanket | T 1175 |
| Insul-Quilts, Inc. | Radiant Barrier | T 1522 |
| Insul-Therm International Inc. | Mineral Fiber Blanket | T 1245 |
| International Insulation Products | Radiant Barrier | T 1512 |
| International Insulation Products | Reflective Foil | T 1512 |
| Johns Manville | Polyisocyanurate Rigid Stock | T 1341 |
| Johns Manville | Mineral Aggregate Board | T 1288 |
| Johns Manville | Mineral Fiber Blanket | T 1039 |
| Johns Manville | Mineral Fiber Board | T 1039 |
| Johns Manville | Mineral Fiber Loose Fill | T 1039 |
| Johns Manville | Mineral Fiber Spray or Field Applied | T 1039 |
| Johns Manville | Mineral Fiber Water Heater Kits, Duct & Pipe Wrap | T 1039 |
| Johns Manville | Polyisocyanurate Board | T 1341 |
| Johns Manville | Polyisocyanurate Water Heater Kits, Duct & Pipe Wrap | T 1341 |
| Johns Manville | Polyurethane Spray or Field Applied | T 1468 |
| Kingspan Insulation LLC | Polystyrene Board | T 1506 |
| Kingspan Insulation LLC | Polyisocyanurate Board | T 1538 |
| Kingspan Insulation LLC | Polyisocyanurate Rigid Stock | T 1538 |

| Manufacturer | Insulation Type | License Number |
|---|---|----------------|
| Knauf Insulation | Mineral Fiber Blanket | T 1002 |
| Knauf Insulation | Mineral Fiber Board | T 1002 |
| Knauf Insulation | Mineral Fiber Loose Fill | T 1002 |
| Knauf Insulation | Mineral Fiber Water Heater Kits, Duct & Pipe Wrap | T 1002 |
| Lamtec Corporation | Radiant Barrier | T 1489 |
| M-D Building Products Inc. | Mineral Fiber Water Heater Kits, Duct & Pipe Wrap | T 1120 |
| M-D Building Products Inc. | Reflective Foil | T 1120 |
| Mountain Fiber Insulation Inc. | Cellulose Fiber Loose Fill | T 1405 |
| Mountain Fiber Insulation Inc. | Cellulose Fiber Spray or Field Applied | T 1405 |
| Natural Polymers LLC | Polyurethane Spray or Field Applied | T 1539 |
| NCFI Polyurethanes | Polyurethane Spray or Field Applied | T 1401 |
| Owens Corning Foam Insulation LLC | Polystyrene Board | T 1427 |
| Owens Corning Insulating Systems LLC | Mineral Fiber Blanket | T 1428 |
| Owens Corning Insulating Systems LLC | Mineral Fiber Board | T 1428 |
| Owens Corning Insulating Systems LLC | Mineral Fiber Loose Fill | T 1428 |
| Owens Corning Insulating Systems LLC | Mineral Fiber Water Heater Kits, Duct & Pipe Wrap | T 1428 |
| Pittsburgh Corning Corporation | Cellular Glass Board | T 1036 |
| Poliestireno Alfa Gamma S.A. de C.V. | Polystyrene Board | T 1470 |
| Polyglass USA | Polyisocyanurate Board | T 1529 |
| Polyglass USA | Polyurethane Spray or Field Applied | T 1529 |
| Reflectix, Inc. | Reflective Foil | T 1543 |
| Quadrant Performance Materials, LLC | Polyurethane Spray or Field Applied | T 1553 |
| Resisto | Reflective Foil | T 1469 |
| Rhino Linings Corporation | Polyurethane Spray or Field Applied | T 1490 |
| Rmax, A Business Unit of Sika Corporation | Polyisocyanurate Board | T 1523 |
| Rockwool | Mineral Fiber Blanket | T 1360 |
| Rockwool | Mineral Fiber Board | T 1360 |
| Service Partners LLC | Radiant Barrier | T 1516 |
| Silvercote | Mineral Fiber Blanket | T 1557 |

| Manufacturer | Insulation Type | License Number |
|---------------------------------------|---|----------------|
| Silvercote | Mineral Fiber Water Heater Kits, Duct & Pipe Wrap | T 1557 |
| Siplast Inc. | Polystyrene Board | T 1320 |
| SWD Urethane Company | Polyurethane Spray or Field Applied | T 1031 |
| Thermafiber Inc. | Mineral Fiber Board | T 1437 |
| Tiger Foam Insulation | Polyurethane Spray or Field Applied | T 1528 |
| Versico Inc. | Polyisocyanurate Board | T 1419 |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|--|---------------|-----------|-----------------|--------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| Cellulose Fiber Blanket | | | | | | | | | | |
| BoriceI Corporation DBA Bonded Logic, Inc. - T 1550 | | | | | | Updated 07/13/2024 | | | | |
| UTT | ULTRATOUCHR13 | CELLULOSE | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.79 | 13.00 | R |
| UTT | ULTRATOUCHR19 | CELLULOSE | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 5.50 | 19.00 | R |
| UTT | ULTRATOUCHR21 | CELLULOSE | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 5.80 | 21.00 | R |

* DESCRIPTION OF BRAND CODES:
UTT = ULTRATOUCH

| | | | | | | | | | | |
|--|---------------|-----------|-----------------|------|--------------|---------------------------|----|------|-------|---|
| Henry A Carlisle Company - T 1554 | | | | | | Updated 04/12/2024 | | | | |
| UTT | ULTRATOUCHR13 | CELLULOSE | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.79 | 13.00 | R |

* DESCRIPTION OF BRAND CODES:
UTT = ULTRATOUCH

| | | | | | | | | | | |
|---|-----------------------------|------------|-----------------------|-------|--------------|---------------------------|-----|-------|-------|---|
| Mineral Fiber Blanket | | | | | | | | | | |
| Certainteed Corporation - T 1023 | | | | | | Updated 10/20/2024 | | | | |
| CT | ACOUSTABLANKET | FIBERGLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 0.50 | 2.10 | R |
| CT | ACOUSTABLANKET | FIBERGLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 1.00 | 4.20 | R |
| CT | ACOUSTABLANKET | FIBERGLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 1.50 | 6.30 | R |
| CT | ACOUSTABLANKET | FIBERGLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 2.00 | 8.30 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 3.50 | 11.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 6.25 | 19.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 10.00 | 30.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 3.50 | 11.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 6.25 | 19.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 8.25 | 30.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 10.00 | 38.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 3.50 | 11.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 3.50 | 13.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 3.50 | 15.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 5.50 | 21.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 6.25 | 19.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 6.50 | 22.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 8.00 | 25.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 8.38 | 26.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 10.00 | 30.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 12.00 | 38.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 8.25 | 30.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 10.00 | 38.00 | R |
| CT | BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 15.00 | 49.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | FOIL FCD SGL MATERIAL | METAL | CLG WALL | NO | YES | 3.50 | 11.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | FOIL FCD SGL MATERIAL | METAL | CLG WALL | NO | YES | 3.50 | 13.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------------------|------------|------------------------|----------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | FOIL FCD SGL MATERIAL | METAL | CLG WALL | NO | YES | 6.25 | 19.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | FOIL FCD SGL MATERIAL | METAL | CLG WALL | NO | YES | 10.00 | 30.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | FOIL FCD SGL MATERIAL | METAL | CLG WALL | NO | YES | 12.00 | 38.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | KRAFT FCD SGL MATERIAL | PAPER | CLG WALL | NO | NO | 3.50 | 11.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | KRAFT FCD SGL MATERIAL | PAPER | CLG WALL | NO | NO | 6.25 | 19.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 2.50 | 8.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 3.50 | 11.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 6.25 | 19.00 | R |
| CT | CERTAPRO ACOUSTA THERM BATT | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 10.00 | 30.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 3.50 | 11.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 3.50 | 13.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 6.25 | 19.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 10.00 | 30.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | FSK FACED SGL MATERIAL | METAL | CLG WALL | YES | YES | 3.50 | 11.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | FSK FACED SGL MATERIAL | METAL | CLG WALL | YES | YES | 3.50 | 13.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | FSK FACED SGL MATERIAL | METAL | CLG WALL | YES | YES | 6.25 | 19.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | FSK FACED SGL MATERIAL | METAL | CLG WALL | YES | YES | 10.00 | 30.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | FSK FACED SGL MATERIAL | METAL | CLG WALL | YES | YES | 12.00 | 38.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | KRAFT FCD SGL MATERIAL | PAPER | CLG WALL | NO | YES | 3.50 | 11.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | KRAFT FCD SGL MATERIAL | PAPER | CLG WALL | NO | YES | 3.50 | 13.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | KRAFT FCD SGL MATERIAL | PAPER | CLG WALL | NO | YES | 6.25 | 19.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | PSK FACED SGL MATERIAL | OTHER | CLG WALL | YES | YES | 6.25 | 19.00 | R |
| CT | CERTAPRO THERMAL BATT | FIBERGLASS | PSK FACED SGL MATERIAL | OTHER | CLG WALL | YES | YES | 10.00 | 30.00 | R |
| CT | COMMERCIAL BLANKET INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 3.50 | 11.00 | R |
| CT | COMMERCIAL BLANKET INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 3.50 | 13.00 | R |
| CT | COMMERCIAL BLANKET INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 6.25 | 19.00 | R |
| CT | COMMERCIAL BLANKET INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 6.50 | 21.00 | R |
| CT | COMMERCIAL BLANKET INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 8.00 | 25.00 | R |
| CT | COMMERCIAL BLANKET INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 10.00 | 30.00 | R |
| CT | ENCAPSULATED BATTS | FIBERGLASS | FACED SINGLE MATERIAL | NONWOVEN | CLG WALL FLR | YES | NO | 8.00 | 25.00 | R |
| CT | ENCAPSULATED BATTS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER** | CLG WALL FLR | NO | YES | 3.50 | 13.00 | R |
| CT | ENCAPSULATED BATTS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER** | CLG WALL FLR | NO | YES | 6.25 | 19.00 | R |
| CT | ENCAPSULATED BATTS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER** | CLG WALL FLR | NO | YES | 10.00 | 30.00 | R |
| CT | HANDY FILL | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | *** | |
| CT | MASONARY WALL INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.75 | 6.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 2.00 | 6.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 2.50 | 8.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 3.40 | 10.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 3.50 | 12.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 3.70 | 11.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 4.30 | 13.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 5.25 | 16.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 6.30 | 19.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 6.50 | 20.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 8.00 | 25.00 | R |
| CT | METAL BUILDING INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 9.25 | 30.00 | R |
| CT | NOISE REDUCER | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL FLR | NO | NO | 2.50 | 8.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------------|------------|-----------------------|---------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| CT | NOISE REDUCER | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL FLR | NO | NO | 3.50 | 11.00 | R |
| CT | NOISE REDUCER | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL FLR | NO | NO | 6.25 | 19.00 | R |
| CT | SPEEDY R BATTS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL | NO | YES | 3.50 | 13.00 | R |
| CT | SPEEDY R BATTS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL | NO | YES | 5.50 | 21.00 | R |
| CT | SPEEDY R BATTS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL | NO | YES | 6.25 | 19.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 3.50 | 11.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 3.50 | 13.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 6.25 | 19.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 10.00 | 30.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 12.00 | 38.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 3.50 | 11.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 3.50 | 13.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 6.25 | 19.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 10.00 | 30.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 12.00 | 38.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 2.50 | 8.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.50 | 11.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.50 | 13.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.50 | 15.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 5.50 | 20.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 5.50 | 21.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 6.25 | 19.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 8.00 | 25.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 8.25 | 30.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 10.00 | 30.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 10.25 | 38.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 12.00 | 38.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 15.00 | 49.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 3.50 | 11.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 3.50 | 13.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 3.50 | 15.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 5.50 | 20.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 5.50 | 21.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 6.25 | 19.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 6.50 | 22.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 8.00 | 25.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 8.25 | 30.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 10.00 | 30.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 10.25 | 38.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 12.00 | 38.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | YES | YES | 3.50 | 11.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | YES | YES | 3.50 | 13.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | YES | YES | 6.25 | 19.00 | R |
| CT | SUSTAINABLE INSULATION | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | YES | YES | 10.00 | 30.00 | R |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.31 | K |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------------|------------|----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 3.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 4.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 4.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 5.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 5.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 6.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 5.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 5.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 6.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 1.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 2.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 2.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 3.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 3.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 4.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 4.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 5.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 5.50 | 0.31 | K |
| CT | UNIVERSAL BLANKET-501 | FIBERGLASS | VINYL FACED MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 6.00 | 0.31 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 3.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 4.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-751 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 3.50 | 0.28 | K |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------------|------------|--------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 4.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1001 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.28 | K |
| CT | UNIVERSAL BLANKET-1501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.23 | K |
| CT | UNIVERSAL BLANKET-1501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.24 | K |
| CT | UNIVERSAL BLANKET-1501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.24 | K |
| CT | UNIVERSAL BLANKET-1501 | FIBERGLASS | FSK FACED MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.24 | K |
| CT | UNIVERSAL BLANKET-1501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.23 | K |
| CT | UNIVERSAL BLANKET-1501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.24 | K |
| CT | UNIVERSAL BLANKET-1501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.24 | K |
| CT | UNIVERSAL BLANKET-1501 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.24 | K |

** 1 Surface-Paper, 3 Surfaces-Nonwoven

***No stated R-value; used for filling small spaces around windows, doors, etc.

* DESCRIPTION OF BRAND CODES:
CT = CERTAITEED

| Insul-Quilts, Inc. - T 1175 | | | | | | Updated 05/06/2019 | | | | |
|-----------------------------|-------------|------------|-----------|--------------|--------------|--------------------|-----|------|------|---|
| ISQ | INSULQUILT2 | FIBERGLASS | COMPOSITE | FIBERGLASS** | CLG WALL FLR | YES | YES | 2.00 | 8.20 | R |

**FIBER GLASS CLOTH FACING

* DESCRIPTION OF BRAND CODES:
ISQ = INSUL-QUILTS

| Insul-Therm International Inc. - T 1245 | | | | | | Updated 6/14/2008 | | | | |
|---|---------------|------------|-----------------------|---------|-----------|-------------------|-----|------|------|---|
| IST | INSULWRAP 850 | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 1.00 | 0.27 | K |
| IST | INSULWRAP 850 | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 1.50 | 0.27 | K |
| IST | INSULWRAP 850 | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 2.00 | 0.27 | K |
| IST | INSULWRAP 850 | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 2.50 | 0.27 | K |
| IST | INSULWRAP 850 | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 3.00 | 0.27 | K |
| IST | INSULWRAP 850 | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 3.50 | 0.27 | K |
| IST | INSULWRAP 850 | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | EQUIPMENT | YES | YES | 4.00 | 0.27 | K |

* DESCRIPTION OF BRAND CODES:
IST = INSUL-THERM

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|--------------------------------|----------------|-------------|-----------------------|---------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| Johns Manville - T 1039 | | | | | | Updated 12/15/2023 | | | | |
| JM | ALL PURPOSE | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 1.00 | 3.20 | R |
| JM | B.I. R11 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | WALL | NO | YES | 3.50 | 11.00 | R |
| JM | B.I. R11 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | WALL | NO | YES | 3.63 | 11.00 | R |
| JM | B.I. R11 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 11.00 | R |
| JM | B.I. R11 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.63 | 11.00 | R |
| JM | B.I. R13 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | WALL | NO | YES | 3.50 | 13.00 | R |
| JM | B.I. R13 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | WALL | NO | YES | 3.63 | 13.00 | R |
| JM | B.I. R13 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 13.00 | R |
| JM | B.I. R13 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.63 | 13.00 | R |
| JM | B.I. R15 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | WALL | NO | YES | 3.50 | 15.00 | R |
| JM | B.I. R15 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 15.00 | R |
| JM | B.I. R19 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CLG WALL FLR | NO | YES | 6.25 | 19.00 | R |
| JM | B.I. R19 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CLG WALL FLR | NO | YES | 6.50 | 19.00 | R |
| JM | B.I. R19 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 6.25 | 19.00 | R |
| JM | B.I. R19 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 6.50 | 19.00 | R |
| JM | B.I. R20 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | WALL | NO | YES | 5.50 | 20.00 | R |
| JM | B.I. R20 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 20.00 | R |
| JM | B.I. R21 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | WALL | NO | YES | 5.50 | 21.00 | R |
| JM | B.I. R21 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 21.00 | R |
| JM | B.I. R22 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CEILING | NO | YES | 7.50 | 22.00 | R |
| JM | B.I. R22 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 7.50 | 22.00 | R |
| JM | B.I. R23 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 5.50 | 23.00 | R |
| JM | B.I. R25 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CEILING | NO | YES | 8.25 | 25.00 | R |
| JM | B.I. R25 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 8.25 | 25.00 | R |
| JM | B.I. R30 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CEILING | NO | YES | 8.25 | 30.00 | R |
| JM | B.I. R30 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CEILING | NO | YES | 10.25 | 30.00 | R |
| JM | B.I. R30 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 8.25 | 30.00 | R |
| JM | B.I. R30 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 10.25 | 30.00 | R |
| JM | B.I. R38 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CEILING | NO | YES | 10.25 | 38.00 | R |
| JM | B.I. R38 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CEILING | NO | YES | 12.00 | 38.00 | R |
| JM | B.I. R38 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CEILING | NO | YES | 12.50 | 38.00 | R |
| JM | B.I. R38 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 10.25 | 38.00 | R |
| JM | B.I. R38 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 12.00 | 38.00 | R |
| JM | B.I. R38 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 12.50 | 38.00 | R |
| JM | B.I. R49 KF/FF | FIBER GLASS | FACED SINGLE MATERIAL | PAP/MTL | CEILING | NO | YES | 13.50 | 49.00 | R |
| JM | B.I. R49 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 13.50 | 49.00 | R |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 0.22 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 0.23 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 0.27 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 0.29 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.75 | 0.27 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.75 | 0.29 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.75 | 0.31 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 0.25 | C |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------|-------------|-----------------------|---------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 0.27 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 0.29 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 0.31 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.25 | 0.27 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.25 | 0.29 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.25 | 0.31 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.50 | 0.27 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.50 | 0.29 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.50 | 0.31 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.75 | 0.29 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.75 | 0.31 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 2.00 | 0.29 | C |
| JM | COAT MCLT | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 2.00 | 0.31 | C |
| JM | COMFORTTHERM | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | CLG | YES | YES | 10.25 | 30.00 | R |
| JM | COMFORTTHERM | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | YES | YES | 6.50 | 19.00 | R |
| JM | COMFORTTHERM | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WALL | YES | YES | 3.50 | 13.00 | R |
| JM | COMFORTTHERM | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WALL | YES | YES | 5.50 | 21.00 | R |
| JM | DUCT LINER PM | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 2.20 | R |
| JM | DUCT LINER PM | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 4.20 | R |
| JM | DUCT LINER PM | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.50 | 6.30 | R |
| JM | DUCT LINER PM | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 2.00 | 8.00 | R |
| JM | DURACORE | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.24 | K |
| JM | DURACORE | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.75 | 0.24 | K |
| JM | DURACORE | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.24 | K |
| JM | EXACT-O-MAT 1.0 PCF | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 1.00 | 0.27 | K |
| JM | EXACT-O-MAT 1.0 PCF | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 1.00 | 0.28 | K |
| JM | EXACT-O-MAT 1.5 PCF | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.50 | 0.25 | K |
| JM | EXACT-O-MAT 2.0 PCF | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.25 | 0.25 | K |
| JM | EXACT-O-MAT 2.0 PCF | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.38 | 0.25 | K |
| JM | EXACT-O-MAT 3.0 PCF | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.25 | 0.24 | K |
| JM | FLEX-GLAS PC 100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.50 | 4.20 | R |
| JM | FLEX-GLAS PC 110 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.00 | 6.00 | R |
| JM | FLEX-GLAS PC 120 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.50 | 4.30 | R |
| JM | FLEX-GLAS PC 125 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.50 | 4.20 | R |
| JM | FLEX-GLAS PC 130 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.00 | 6.00 | R |
| JM | FLEX-GLAS PC 130 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 4.00 | 12.00 | R |
| JM | FLEX-GLAS PC 135 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.50 | 8.00 | R |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.26 | K |
| JM | INCOMB MICROLITE | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.28 | K |
| JM | INCOMB MICROLITE | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.28 | K |
| JM | INCOMB MICROLITE | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.28 | K |
| JM | INCOMB MICROLITE | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.28 | K |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------|-------------|-----------------------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | INCOMB MICROLITE | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.28 | K |
| JM | I.S. BLACK ROLLS | FIBER GLASS | FACED SINGLE MATERIAL | FIBERGLASS | WALL | YES | NO | 1.00 | 4.20 | R |
| JM | I.S. BLACK ROLLS | FIBER GLASS | FACED SINGLE MATERIAL | FIBERGLASS | WALL | YES | NO | 2.00 | 8.00 | R |
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 2.20 | R |
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 4.20 | R |
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.50 | 6.30 | R |
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 2.00 | 8.00 | R |
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 3.00 | 12.00 | R |
| JM | LINACOUSTIC RC-HP | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 4.30 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 2.20 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 4.20 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.50 | 6.30 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 2.00 | 8.00 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 3.00 | 12.00 | R |
| JM | MASONRY WALL | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 0.75 | 3.00 | R |
| JM | MASONRY WALL | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.13 | 3.40 | R |
| JM | MASONRY WALL | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.00 | R |
| JM | MASONRY WALL | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.88 | 5.00 | R |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 1.00 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 1.50 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 2.00 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 2.50 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 3.00 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 3.50 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 4.00 | 0.24 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.22 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.22 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.22 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.31 | K |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------|-------------|-----------------------|----------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.75 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.75 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.75 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.75 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.00 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.00 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.00 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.00 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.25 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.25 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.25 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.50 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.50 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.50 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.75 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.75 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.75 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.00 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.00 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.00 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.25 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.25 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.25 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.50 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.50 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.50 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.75 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.75 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.75 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 4.00 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 4.00 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 4.00 | 0.31 | K |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------------------------|-------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | MICROLITE 0.60 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.30 | K |
| JM | MICROLITE 0.60 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.75 | 0.30 | K |
| JM | MICROLITE 0.60 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.30 | K |
| JM | MICROLITE 0.60 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.30 | K |
| JM | MICROLITE 0.60 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.30 | K |
| JM | MICROLITE 0.60 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.30 | K |
| JM | MICROLITE 0.60 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.30 | K |
| JM | MICROLITE 0.75 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.29 | K |
| JM | MICROLITE 0.75 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.75 | 0.29 | K |
| JM | MICROLITE 0.75 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.29 | K |
| JM | MICROLITE 0.75 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.29 | K |
| JM | MICROLITE 0.75 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.29 | K |
| JM | MICROLITE 0.75 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.29 | K |
| JM | MICROLITE 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.25 | 0.26 | K |
| JM | MICROLITE 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.37 | 0.26 | K |
| JM | MICROLITE 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.26 | K |
| JM | MICROLITE 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.75 | 0.26 | K |
| JM | MICROLITE 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.26 | K |
| JM | MICROLITE 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.26 | K |
| JM | MICROLITE 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.26 | K |
| JM | MICROLITE 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.26 | K |
| JM | MICROLITE 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.26 | K |
| JM | MICROLITE 1.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.25 | 0.24 | K |
| JM | MICROLITE 1.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.37 | 0.24 | K |
| JM | MICROLITE 1.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.24 | K |
| JM | MICROLITE 1.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.75 | 0.24 | K |
| JM | MICROLITE 1.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.24 | K |
| JM | MICROLITE 1.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.24 | K |
| JM | MICROLITE 1.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.24 | K |
| JM | MICROLITE 2.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.25 | 0.23 | K |
| JM | MICROLITE 2.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.37 | 0.23 | K |
| JM | MICROLITE 2.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.23 | K |
| JM | MICROLITE 2.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.75 | 0.23 | K |
| JM | MICROLITE 2.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.23 | K |
| JM | MICROLITE 2.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.23 | K |
| JM | MICROLITE 2.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.25 | 0.23 | K |
| JM | MICROLITE 2.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.37 | 0.23 | K |
| JM | MICROLITE 2.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.23 | K |
| JM | MICROLITE 2.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.75 | 0.23 | K |
| JM | MICROLITE 2.5 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.23 | K |
| JM | MICROLITE 3.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.25 | 0.22 | K |
| JM | MICROLITE 3.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.37 | 0.22 | K |
| JM | MICROLITE 3.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.22 | K |
| JM | MICROLITE 3.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.75 | 0.22 | K |
| JM | MICROLITE 3.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.22 | K |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 1.50 | 4.20 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 2.00 | 5.60 | R |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------------------------|-------------|-----------------------|---------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 2.20 | 6.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 3.00 | 8.30 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 4.40 | 12.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 5.75 | 16.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 7.00 | 19.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 100 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 1.50 | 5.60 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 100 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 2.00 | 7.40 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 150 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 1.50 | 6.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 150 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 2.00 | 8.00 | R |
| JM | MICROLITE L | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 2.95 | 10.00 | R |
| JM | MICROLITE L | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 3.30 | 11.00 | R |
| JM | MICROLITE L | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 3.85 | 13.00 | R |
| JM | MICROLITE L | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 5.60 | 19.00 | R |
| JM | MICROLITE L | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 7.50 | 25.00 | R |
| JM | MICROLITE L | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 8.70 | 30.00 | R |
| JM | MICROLITE MW | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.38 | 0.23 | K |
| JM | MICROLITE MW | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.23 | K |
| JM | MICROLITE MW | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.63 | 0.23 | K |
| JM | MICROLITE MW | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.75 | 0.23 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 60 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.31 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 60 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.31 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 60 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.20 | 0.31 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 60 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 0.31 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.29 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.29 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.20 | 0.29 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 0.29 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.27 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.27 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.25 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.25 | K |
| JM | MICROMAT 23 | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.50 | 0.23 | K |
| JM | MICROMAT 24 | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.50 | 0.24 | K |
| JM | MICROMAT 24 | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.75 | 0.24 | K |
| JM | MICROMAT 24 | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 1.00 | 0.24 | K |
| JM | MICROMAT 24 | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 1.50 | 0.24 | K |
| JM | MICROMAT 25 | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.50 | 0.25 | K |
| JM | MICROMAT 25 | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 1.00 | 0.25 | K |
| JM | MICROMAT 26 | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.75 | 0.26 | K |
| JM | MICROMAT 26 | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 1.00 | 0.26 | K |
| JM | MICROMAT RX | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.50 | 2.20 | R |
| JM | MICROMAT RX | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.75 | 3.20 | R |
| JM | MICROMAT RX | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 1.00 | 4.20 | R |
| JM | MOBINSUL R7 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 2.25 | 7.00 | R |
| JM | MOBINSUL R7 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 2.50 | 7.00 | R |
| JM | MOBINSUL R11 KF | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 3.50 | 11.00 | R |
| JM | MOBINSUL R11 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.50 | 11.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|--------------------------|-------------|-----------------------|--------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | MOBINSUL R11 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 4.00 | 11.00 | R |
| JM | MOBINSUL R13 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | YES | 3.50 | 13.00 | R |
| JM | MOBINSUL R14 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 5.00 | 14.00 | R |
| JM | MOBINSUL R19 KF | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 6.50 | 19.00 | R |
| JM | MOBINSUL R19 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 6.50 | 19.00 | R |
| JM | MOBINSUL R22 UNF | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 7.50 | 22.00 | R |
| JM | MULTI-PURPOSE | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 1.00 | 3.00 | R |
| JM | PANEL DECK FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | ROOF DECK | YES | YES | 6.50 | 19.00 | R |
| JM | PANEL DECK FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | ROOF DECK | YES | YES | 10.25 | 30.00 | R |
| JM | PANEL DECK PSK | FIBER GLASS | FACED SINGLE MATERIAL | PSK | ROOF DECK | YES | YES | 6.25 | 19.00 | R |
| JM | PANEL DECK PSK | FIBER GLASS | FACED SINGLE MATERIAL | PSK | ROOF DECK | YES | YES | 10.25 | 30.00 | R |
| JM | PEBS BLANKET | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.00 | 10.00 | R |
| JM | PEBS BLANKET | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 4.40 | 13.00 | R |
| JM | PEBS BLANKET | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 6.00 | 19.00 | R |
| JM | PEBS BLANKET | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 8.00 | 25.00 | R |
| JM | PEBS BLANKET | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 9.00 | 30.00 | R |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.23 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.23 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.23 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.23 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.23 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.23 | K |
| JM | R11 FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 3.50 | 11.00 | R |
| JM | R11 FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 3.63 | 11.00 | R |
| JM | R13 FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 3.63 | 13.00 | R |
| JM | R19 FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | CLG WALL | YES | YES | 6.50 | 19.00 | R |
| JM | R21 FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 5.50 | 21.00 | R |
| JM | R30 FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 10.25 | 30.00 | R |
| JM | R38 FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 12.00 | 38.00 | R |
| JM | R38 FSK | FIBER GLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 12.50 | 38.00 | R |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.24 | K |

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BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|--------------------------|-------------|-----------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.32 | K |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------------------|-------------|-----------------------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.34 | K |
| JM | SPIRAL SG 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.30 | K |
| JM | SPIRAL SG 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.30 | K |
| JM | SPIRAL SG 85 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.27 | K |
| JM | SPIRAL SG 85 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.27 | K |
| JM | SPIRAL SG 100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.26 | K |
| JM | SPIRAL SG 100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.26 | K |
| JM | SPIRAL SG 125 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.25 | K |
| JM | SPIRAL SG 125 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.25 | K |
| JM | SPIRAL SG 150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.24 | K |
| JM | SPIRAL SG 150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.24 | K |
| JM | T.A.B. R11 KF | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 4.00 | 11.00 | R |
| JM | T.A.B. R19 KF | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 6.75 | 19.00 | R |
| JM | TUF-GLAS/VALULITE 24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.24 | K |
| JM | TUF-GLAS/VALULITE 24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.24 | K |
| JM | TUF-GLAS/VALULITE 25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.25 | K |
| JM | TUF-GLAS/VALULITE 25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.25 | K |
| JM | TUF-SKIN | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 0.50 | 0.48 | C |
| JM | TUF-SKIN | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 0.75 | 0.31 | C |
| JM | TUF-SKIN | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 1.00 | 0.24 | C |
| JM | TUF-SKIN | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 1.50 | 0.17 | C |
| JM | TUF-SKIN | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 2.00 | 0.13 | C |
| JM | TUF-SKIN II | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 0.50 | 0.52 | C |
| JM | TUF-SKIN II | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 0.75 | 0.36 | C |
| JM | TUF-SKIN II | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 1.00 | 0.26 | C |
| JM | TUF-SKIN II | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 1.50 | 0.18 | C |
| JM | TUF-SKIN II | FIBER GLASS | COMPOSITE | FIBERGLASS | EQUIPMENT | YES | NO | 2.00 | 0.13 | C |
| JM | ZESTON HI-LO INSULATION INSERTS | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.26 | K |

NOTE: KF = Kraft-Faced

UNF = SINGLE MATERIAL

KF/FF = Kraft-Faced Formaldehyde-Free

* DESCRIPTION OF BRAND CODES:
 JM = JOHNS MANVILLE

| Knauf Insulation - T 1002 | | | | | | Updated 06/30/2023 | | | | |
|---------------------------|-----------------|------------|-----------------------|-------|---------|--------------------|-----|-------|-------|---|
| KNF | CBI-25 BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 6.50 | 22.00 | R |
| KNF | CBI-25 BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 8.25 | 30.00 | R |
| KNF | CBI-25 BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 10.00 | 30.00 | R |

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| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|--------------------------|------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| KNF | CBI-25 BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 10.25 | 38.00 | R |
| KNF | CBI-25 BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | YES | YES | 12.00 | 38.00 | R |
| KNF | CBI-25 BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 3.50 | 11.00 | R |
| KNF | CBI-25 BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 3.50 | 13.00 | R |
| KNF | CBI-25 BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 3.50 | 15.00 | R |
| KNF | CBI-25 BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | WALL CLG | YES | YES | 6.25 | 19.00 | R |
| KNF | FLXDTLINEM 1.5 PCF | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | NO | NO | 1.00 | 0.25 | C |
| KNF | FLXDTLINEM 1.5 PCF | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | NO | NO | 1.50 | 0.17 | C |
| KNF | FLXDTLINEM 1.5 PCF | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | NO | NO | 2.00 | 0.13 | C |
| KNF | FLXDTLINEM 2.0 PCF | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | NO | NO | 0.50 | 0.48 | C |
| KNF | FLXDTLINEM 2.0 PCF | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | NO | NO | 1.00 | 0.24 | C |
| KNF | FLXDTLINEM 2.0 PCF | FIBERGLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | NO | NO | 1.50 | 0.16 | C |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | NO | YES | 6.50 | 22.00 | R |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | NO | YES | 8.25 | 30.00 | R |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | NO | YES | 10.00 | 30.00 | R |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | NO | YES | 10.25 | 38.00 | R |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CEILING | NO | YES | 12.00 | 38.00 | R |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | WALL | NO | YES | 3.50 | 11.00 | R |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | WALL | NO | YES | 3.50 | 13.00 | R |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | WALL | NO | YES | 3.50 | 15.00 | R |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | WALL CLG | NO | YES | 5.50 | 21.00 | R |
| KNF | FOIL FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | WALL CLG | NO | YES | 6.25 | 19.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 6.50 | 22.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 8.25 | 30.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 10.00 | 30.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 10.25 | 38.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 12.00 | 38.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 13.75 | 49.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | FLOOR | NO | YES | 8.00 | 25.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL | NO | YES | 3.50 | 11.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL | NO | YES | 3.50 | 13.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL | NO | YES | 3.50 | 15.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL CLG | NO | YES | 5.50 | 21.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL CLG | NO | YES | 5.50 | 23.00 | R |
| KNF | KRAFT FACED BLDG INS | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL CLG | NO | YES | 6.25 | 19.00 | R |
| KNF | KRAFT FACED BLDG INS IRD | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | YES | 6.25 | 19.00 | R |
| KNF | MANUFACTURED HSING | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 9.50 | 30.00 | R |
| KNF | MANUFACTURED HSING | FIBERGLASS | SINGLE MATERIAL | NONE | CLG FLR | YES | NO | 4.50 | 14.00 | R |
| KNF | MANUFACTURED HSING | FIBERGLASS | SINGLE MATERIAL | NONE | CLG FLR | YES | NO | 6.25 | 19.00 | R |
| KNF | MANUFACTURED HSING | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 5.00 | R |
| KNF | MANUFACTURED HSING | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.25 | 7.00 | R |
| KNF | MANUFACTURED HSING | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 11.00 | R |
| KNF | MANUFACTURED HSING | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 13.00 | R |
| KNF | MASONARY WALL INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 0.75 | 3.00 | R |
| KNF | MASONARY WALL INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 5.00 | R |
| KNF | METAL BUILDING INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 3.00 | 10.00 | R |
| KNF | METAL BUILDING INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 3.50 | 11.00 | R |

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| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|--------------------|------------|-----------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| KNF | METAL BUILDING INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 4.00 | 13.00 | R |
| KNF | METAL BUILDING INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 5.00 | 16.00 | R |
| KNF | METAL BUILDING INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 6.00 | 19.00 | R |
| KNF | METAL BUILDING INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 8.00 | 25.00 | R |
| KNF | METAL BUILDING INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 9.50 | 30.00 | R |
| KNF | UMBI | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 3.00 | 10.00 | R |
| KNF | UMBI | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 3.50 | 12.00 | R |
| KNF | UMBI | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 4.25 | 14.00 | R |
| KNF | UMBI | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 6.00 | 20.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 6.50 | 22.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 8.25 | 30.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 10.00 | 30.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 10.25 | 38.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 12.00 | 38.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 13.75 | 49.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | FLOOR | YES | NO | 8.00 | 25.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 8.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 11.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 13.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 15.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 5.50 | 21.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 5.50 | 23.00 | R |
| KNF | UNFACED BLDS INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL CLG | YES | NO | 6.25 | 19.00 | R |

* DESCRIPTION OF BRAND CODES:
KNF = KNAUF INSULATION

| Owens Corning Insulating Systems LLC - T 1428 | | | | | Updated 12/15/2023 | | | | | |
|---|-------------------------|------------|-----------------------|-------|--------------------|-----|-----|-------|-------|---|
| FG | ROTARY DUCT LINER R-2.2 | FIBERGLASS | SINGLE MATERIAL | OTHER | DUCTS | YES | NO | 0.50 | 0.23 | K |
| FG | ROTARY DUCT LINER R-4.2 | FIBERGLASS | SINGLE MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 0.24 | K |
| FG | ROTARY DUCT LINER R-6 | FIBERGLASS | SINGLE MATERIAL | OTHER | DUCTS | YES | NO | 1.50 | 0.24 | K |
| FG | ROTARY DUCT LINER R-8 | FIBERGLASS | SINGLE MATERIAL | OTHER | DUCTS | YES | NO | 2.00 | 0.24 | K |
| FG | DUCT LINER HD-ROLL | FIBERGLASS | SINGLE MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 0.23 | K |
| FG | FLAME SPREAD 25 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 3.50 | 13.00 | R |
| FG | FLAME SPREAD 25 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 6.00 | 21.00 | R |
| FG | FLAME SPREAD 25 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 6.50 | 19.00 | R |
| FG | FLAME SPREAD 25 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 10.00 | 30.00 | R |
| FG | FLAME SPREAD 25 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | YES | YES | 12.50 | 38.00 | R |
| FG | FLAME SPREAD 25 | FIBERGLASS | FACED SINGLE MATERIAL | POLY | CLG WALL FLR | YES | YES | 3.50 | 13.00 | R |
| FG | FLAME SPREAD 25 | FIBERGLASS | FACED SINGLE MATERIAL | POLY | CLG WALL FLR | YES | YES | 6.50 | 19.00 | R |
| FG | FOIL FACED B INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 3.50 | 11.00 | R |
| FG | FOIL FACED B INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 3.50 | 13.00 | R |
| FG | FOIL FACED B INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 6.50 | 19.00 | R |
| FG | FOIL FACED B INS | FIBERGLASS | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES | 10.00 | 30.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG FLR | NO | YES | 9.50 | 30.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------|------------|-----------------------|--------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG FLR | NO | YES | 10.00 | 30.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG FLR | NO | YES | 12.50 | 38.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG FLR | NO | YES | 14.00 | 49.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 3.50 | 11.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 3.50 | 13.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 6.25 | 19.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 6.50 | 19.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | YES | 6.75 | 22.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL | NO | YES | 3.50 | 15.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL | NO | YES | 5.50 | 21.00 | R |
| FG | KRAFT FACED B IN | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | WALL | NO | YES | 6.00 | 21.00 | R |
| FG | MBI CERTIFIED R | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 3.40 | 10.00 | R |
| FG | MBI CERTIFIED R | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 3.70 | 11.00 | R |
| FG | MBI CERTIFIED R | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 4.30 | 13.00 | R |
| FG | MBI CERTIFIED R | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 5.30 | 16.00 | R |
| FG | MBI CERTIFIED R | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 6.30 | 19.00 | R |
| FG | MBI CERTIFIED R | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 6.50 | 20.00 | R |
| FG | MBI CERTIFIED R | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 8.00 | 25.00 | R |
| FG | MBI CERTIFIED R | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL | YES | NO | 9.25 | 30.00 | R |
| FG | R30 CATHEDRAL KR | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 8.25 | 30.00 | R |
| FG | R30 CATHEDRAL UN | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 8.25 | 30.00 | R |
| FG | R38 CATHEDRAL KR | FIBERGLASS | FACED SINGLE MATERIAL | PAPER | CEILING | NO | YES | 10.25 | 38.00 | R |
| FG | R38 CATHEDRAL UN | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 10.25 | 38.00 | R |
| FG | TIW TYPE 1-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.24 | K |
| FG | TIW TYPE 1-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.24 | K |
| FG | TIW TYPE 1-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.24 | K |
| FG | TIW TYPE 1-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.24 | K |
| FG | TIW TYPE 1-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.24 | K |
| FG | TIW TYPE 1-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.24 | K |
| FG | TIW TYPE 1-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.24 | K |
| FG | TIW TYPE 2-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.22 | K |
| FG | TIW TYPE 2-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.22 | K |
| FG | TIW TYPE 2-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.22 | K |
| FG | TIW TYPE 2-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.22 | K |
| FG | TIW TYPE 2-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.22 | K |
| FG | TIW TYPE 2-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.22 | K |
| FG | TIW TYPE 2-HP | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.22 | K |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | CEILING | YES | NO | 8.00 | 25.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | CLG FLR | YES | NO | 9.50 | 30.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | CLG FLR | YES | NO | 10.00 | 30.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | CLG FLR | YES | NO | 12.50 | 38.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | CLG FLR | YES | NO | 14.00 | 49.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.50 | 11.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.50 | 13.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 6.25 | 19.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 6.50 | 19.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 15.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BLANKET INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------|------------|-----------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 21.00 | R |
| FG | UNFACED BLDG INS | FIBERGLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 21.00 | R |

* DESCRIPTION OF BRAND CODES:
FG = FIBERGLAS

| Rockwool - T 1360 | | | | | | Updated 12/01/2023 | | | | |
|-------------------|-------------|----------|-----------------|------|------|--------------------|----|------|-------|---|
| RI | COMFORTBATT | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 13.00 | R |
| RI | COMFORTBATT | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 15.00 | R |
| RI | COMFORTBATT | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 21.00 | R |
| RI | COMFORTBATT | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 23.00 | R |
| RI | COMFORTBATT | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 24.00 | R |
| RI | COMFORTBATT | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.25 | 30.00 | R |
| RI | COMFORTBATT | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 8.00 | 32.00 | R |
| RI | COMFORTBATT | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 9.50 | 38.00 | R |

* DESCRIPTION OF BRAND CODES:
RI = ROCKWOOL

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|--|--------------|--------------|-----------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| Cellular Glass Board | | | | | | | | | | |
| Pittsburgh Corning Corporation - T 1036 | | | | | | Updated 12/12/2011 | | | | |
| FMG | 135114 | CELLULAR GLS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | YES | 2.00 | 6.90 | R |
| FMG | 135116 | CELLULAR GLS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | YES | 3.00 | 10.40 | R |
| FMG | 135118 | CELLULAR GLS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | YES | 4.00 | 13.80 | R |
| FMG | 135121 | CELLULAR GLS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | YES | 5.00 | 17.30 | R |
| FMG | 135216 | CELLULAR GLS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | YES | 6.00 | 20.70 | R |
| FMG | FOAMGLAS ONE | CELLULAR GLS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | YES | 7.00 | 24.20 | R |

* DESCRIPTION OF BRAND CODES:
 FMG = FOAMGLAS

| | | | | | | | | | | |
|--------------------------------|-----------|-------------------|-----------------|------|-----------|---------------------------|----|------|------|---|
| Mineral Aggregate Board | | | | | | | | | | |
| Johns Manville - T 1288 | | | | | | Updated 10/05/2023 | | | | |
| JM | DURABOARD | MINERAL AGGREGATE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 0.50 | 1.20 | R |
| JM | DURABOARD | MINERAL AGGREGATE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 0.75 | 1.80 | R |
| JM | DURABOARD | MINERAL AGGREGATE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 1.00 | 2.30 | R |
| JM | FESCO | MINERAL AGGREGATE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 0.75 | 1.70 | R |
| JM | FESCO | MINERAL AGGREGATE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 1.00 | 2.30 | R |
| JM | FESCO | MINERAL AGGREGATE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 1.50 | 3.40 | R |
| JM | FESCO | MINERAL AGGREGATE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 2.00 | 4.50 | R |
| JM | RETROFIT | MINERAL AGGREGATE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 0.50 | 1.10 | R |
| JM | RETROPLUS | MINERAL AGGREGATE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 0.50 | 1.30 | R |

* DESCRIPTION OF BRAND CODES:
 JM = JOHNS MANVILLE

| | | | | | | | | | | |
|---|------------------------|-------------|------------------------|-------|--------------|---------------------------|-----|------|------|---|
| Mineral Fiber Board | | | | | | | | | | |
| Certainteed Corporation - T 1023 | | | | | | Updated 10/20/2024 | | | | |
| CT | ACOUSTA BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 1.00 | 4.30 | R |
| CT | ACOUSTA BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 1.50 | 6.50 | R |
| CT | ACOUSTA BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 2.00 | 8.70 | R |
| CT | ACOUSTA BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 1.00 | 4.30 | R |
| CT | ACOUSTA BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 1.50 | 6.50 | R |
| CT | ACOUSTA BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | OTHER | CLG WALL | YES | NO | 2.00 | 8.70 | R |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 3.50 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 4.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 1.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 1.50 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 2.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 2.50 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 3.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 3.50 | 0.25 | K |
| CT | COMMERCIAL BOARD - 150 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 4.00 | 0.25 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 1.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 1.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 2.00 | 0.23 | K |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------------|-------------|------------------------|--------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 2.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 3.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 3.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 4.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | FSK FACED SGL MAT | METAL | CLG WALL FLR | YES | YES | 1.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | FSK FACED SGL MAT | METAL | CLG WALL FLR | YES | YES | 1.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | FSK FACED SGL MAT | METAL | CLG WALL FLR | YES | YES | 2.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | FSK FACED SGL MAT | METAL | CLG WALL FLR | YES | YES | 2.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | FSK FACED SGL MAT | METAL | CLG WALL FLR | YES | YES | 3.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | FSK FACED SGL MAT | METAL | CLG WALL FLR | YES | YES | 3.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | FSK FACED SGL MAT | METAL | CLG WALL FLR | YES | YES | 4.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 1.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 1.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 2.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 2.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 4.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 1.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 1.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 2.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 2.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 3.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 3.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 225 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 4.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 1.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 1.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 2.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 2.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 3.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 3.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | CLG WALL FLR | YES | YES | 4.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 3.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 4.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 1.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 1.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 2.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 2.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 3.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 4.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 1.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 1.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 2.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 2.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 3.00 | 0.23 | K |
| CT | COMMERCIAL BOARD - 300 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 3.50 | 0.23 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | EQUIPMENT | YES | YES | 1.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | EQUIPMENT | YES | YES | 1.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | EQUIPMENT | YES | YES | 2.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | EQUIPMENT | YES | YES | 2.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | EQUIPMENT | YES | YES | 3.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | EQUIPMENT | YES | YES | 3.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | ASJ FACED SGL MATERIAL | PAPER | EQUIPMENT | YES | YES | 4.00 | 0.22 | K |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-----------------------------|-------------|------------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 3.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | EQUIPMENT | YES | YES | 4.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 1.00 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 1.50 | 0.22 | K |
| CT | COMMERCIAL BOARD - 600 | FIBER GLASS | WMP FACED SGL MATERIAL | OTHER | EQUIPMENT | YES | YES | 2.00 | 0.22 | K |
| CT | TOUGHGARD RIGID LINER BOARD | FIBER GLASS | GLASS MAT FACED | MTL/FAB | DUCTS | YES | NO | 1.00 | 0.23 | K |
| CT | TOUGHGARD RIGID LINER BOARD | FIBER GLASS | GLASS MAT FACED | MTL/FAB | DUCTS | YES | NO | 1.50 | 0.23 | K |
| CT | TOUGHGARD RIGID LINER BOARD | FIBER GLASS | GLASS MAT FACED | MTL/FAB | DUCTS | YES | NO | 2.00 | 0.23 | K |
| CT | ULTRADUCT BLACK - 475 | FIBER GLASS | FSK FCD SGL MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 4.30 | R |
| CT | ULTRADUCT BLACK - 475 | FIBER GLASS | FSK FCD SGL MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 6.50 | R |
| CT | ULTRADUCT BLACK - 475 | FIBER GLASS | FSK FCD SGL MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 8.70 | R |
| CT | ULTRADUCT BLACK - 800 | FIBER GLASS | FSK FCD SGL MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 4.30 | R |
| CT | ULTRADUCT BLACK - 800 | FIBER GLASS | FSK FCD SGL MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 6.50 | R |
| CT | ULTRADUCT BLACK - 800 | FIBER GLASS | FSK FCD SGL MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 8.70 | R |

* DESCRIPTION OF BRAND CODES:
CT = CERTAINTEEED

| Johns Manville - T 1039 | | | | | | Updated 11/30/2022 | | | | |
|-------------------------|------------------|-------------|-----------------------|-------|-----------|--------------------|-----|------|------|---|
| FGS | ES-269.00.010405 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75 | 0.14 | C |
| FGS | ES-269.00.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75 | 0.36 | C |
| FGS | ES-269.00.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.94 | 0.27 | C |
| FGS | ES-269.00.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 0.25 | C |
| FGS | ES-269.00.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.06 | 0.24 | C |
| FGS | ES-269.00.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.31 | 0.19 | C |
| FGS | ES-269.00.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.44 | 0.17 | C |
| FGS | ES-269.00.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.56 | 0.16 | C |
| FGS | ES-269.00.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.63 | 0.15 | C |
| FGS | ES-269.01.04.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.88 | 0.13 | C |
| FGS | ES-269.01.04.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.06 | 0.12 | C |
| FGS | ES-269.01.04.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25 | 0.11 | C |
| FGS | ES-269.01.04.05 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.44 | 0.10 | C |
| FGS | ES-269.04 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75 | 0.36 | C |
| FGS | ES-269.06 | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75 | 0.09 | C |
| JM | 812 BOARD | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.50 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 3.00 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 3.50 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 4.00 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.50 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 0.26 | K |
| JM | 812 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.50 | 0.26 | K |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------|--------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | 812 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 4.00 | 0.26 | K |
| JM | 814 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.23 | K |
| JM | 814 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.23 | K |
| JM | 814 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.23 | K |
| JM | 814 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.50 | 0.23 | K |
| JM | 814 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 0.23 | K |
| JM | 814 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.50 | 0.23 | K |
| JM | 814 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 4.00 | 0.23 | K |
| JM | 814 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 0.23 | K |
| JM | 814 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 0.23 | K |
| JM | 814 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 0.23 | K |
| JM | 814 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.50 | 0.23 | K |
| JM | 814 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 3.00 | 0.23 | K |
| JM | 814 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 3.50 | 0.23 | K |
| JM | 814 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 4.00 | 0.23 | K |
| JM | 815 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.23 | K |
| JM | 815 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.23 | K |
| JM | 815 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.23 | K |
| JM | 815 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.50 | 0.23 | K |
| JM | 815 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 0.23 | K |
| JM | 815 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 0.23 | K |
| JM | 815 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 0.23 | K |
| JM | 815 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.50 | 0.23 | K |
| JM | 815 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.50 | 0.23 | K |
| JM | 817 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.22 | K |
| JM | 817 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.22 | K |
| JM | 817 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.22 | K |
| JM | 817 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 0.22 | K |
| JM | 817 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 0.22 | K |
| JM | 817 BD/FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 0.22 | K |
| JM | 1000 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.22 | K |
| JM | 1000 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.22 | K |
| JM | 1000 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.22 | K |
| JM | 1000 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.22 | K |
| JM | 1000 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.23 | K |
| JM | 1000 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.22 | K |
| JM | 1000 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.22 | K |
| JM | 1000 BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.22 | K |
| JM | COATED I.S. BLACK | FIBER GLASS | FACED SINGLE MATERIAL | COATING | WALL CLG | YES | NO | 1.00 | 4.00 | R |
| JM | COATED I.S. BLACK | FIBER GLASS | FACED SINGLE MATERIAL | COATING | WALL CLG | YES | NO | 2.00 | 8.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 1.00 | 4.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 1.00 | 4.10 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 1.00 | 4.20 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 1.50 | 6.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 1.50 | 6.20 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 1.50 | 6.30 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 2.00 | 8.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 2.00 | 8.20 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 2.00 | 8.40 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 2.50 | 10.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 2.50 | 10.30 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 2.50 | 10.50 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 3.00 | 12.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 3.00 | 12.30 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 3.00 | 12.60 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 3.50 | 14.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 3.50 | 14.40 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 3.50 | 14.70 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 4.00 | 14.80 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 4.00 | 16.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 4.00 | 16.40 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------------|--------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | CURTAINWALL | MINERAL WOOL | FACED SINGLE MATERIAL | FSK | WALL | NO | YES | 4.00 | 16.80 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.00 | 4.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.00 | 4.10 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.00 | 4.20 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.50 | 6.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.50 | 6.20 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.50 | 6.30 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.00 | 8.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.00 | 8.20 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.00 | 8.40 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.50 | 10.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.50 | 10.30 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.50 | 10.50 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 12.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 12.30 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 12.60 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.50 | 14.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.50 | 14.40 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.50 | 14.70 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 16.00 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 16.40 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 16.80 | R |
| JM | CURTAINWALL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 6.00 | 24.00 | R |
| JM | DIFFUSER BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 4.30 | R |
| JM | DIFFUSER BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.38 | 6.00 | R |
| JM | DIFFUSER BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | DIFFUSER BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.38 | 6.00 | R |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | EQUIPMENT | YES | YES | 0.63 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | EQUIPMENT | YES | YES | 0.75 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | EQUIPMENT | YES | YES | 1.00 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | EQUIPMENT | YES | YES | 1.50 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | EQUIPMENT | YES | YES | 2.00 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | EQUIPMENT | YES | YES | 2.50 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | EQUIPMENT | YES | YES | 3.00 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | EQUIPMENT | YES | YES | 3.50 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | EQUIPMENT | YES | YES | 4.00 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 0.63 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 0.75 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.23 | K |
| JM | EQUIPMENT SPIN-GLAS BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.23 | K |
| JM | EXACT-O-BOARD 2.0 PCF | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.38 | 0.23 | K |
| JM | EXACT-O-BOARD 3.0 PCF | FIBER GLASS | COMPOSITE | NONE | EQUIPMENT | YES | NO | 0.25 | 0.22 | K |
| JM | FITTING FAB BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | FITTING FAB BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.50 | 6.50 | R |
| JM | FITTING FAB BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 2.00 | 8.70 | R |
| JM | GLASSDEK | FIBER GLASS | FACED SINGLE MATERIAL | FBR GLS | FLOOR | YES | NO | 1.00 | 0.23 | K |
| JM | GLASSDEK | FIBER GLASS | FACED SINGLE MATERIAL | FBR GLS | FLOOR | YES | NO | 1.25 | 0.23 | K |
| JM | GLASSDEK | FIBER GLASS | FACED SINGLE MATERIAL | FBR GLS | FLOOR | YES | NO | 1.50 | 0.23 | K |
| JM | GLASSDEK | FIBER GLASS | FACED SINGLE MATERIAL | FBR GLS | FLOOR | YES | NO | 1.75 | 0.23 | K |
| JM | GLASSDEK | FIBER GLASS | FACED SINGLE MATERIAL | FBR GLS | FLOOR | YES | NO | 2.00 | 0.23 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.26 | K |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|--------------------|--------------|-----------------------|----------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.26 | K |
| JM | I.S. 300 | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.30 | R |
| JM | I.S. 300 | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.50 | R |
| JM | I.S. 300 | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.70 | R |
| JM | I.S. 300 BLACK | FIBER GLASS | FACED SINGLE MATERIAL | FBR GLS | WALL CLG | YES | NO | 1.00 | 4.30 | R |
| JM | I.S. 300 BLACK | FIBER GLASS | FACED SINGLE MATERIAL | FBR GLS | WALL CLG | YES | NO | 1.50 | 6.50 | R |
| JM | I.S. 300 BLACK | FIBER GLASS | FACED SINGLE MATERIAL | FBR GLS | WALL CLG | YES | NO | 2.00 | 8.70 | R |
| JM | I.S. 300 FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | NO | NO | 1.00 | 4.30 | R |
| JM | I.S. 300 FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | NO | NO | 1.50 | 6.50 | R |
| JM | I.S. 300 FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | NO | NO | 2.00 | 8.70 | R |
| JM | I.S. 600 | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.80 | R |
| JM | I.S. 600 | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 9.10 | R |
| JM | I.S. 600 BLACK | FIBER GLASS | FACED SINGLE MATERIAL | FBR GLS | WALL CLG | YES | NO | 2.00 | 9.10 | R |
| JM | I.S. 600 FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.50 | 6.80 | R |
| JM | I.S. 600 FSK/AP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.00 | 9.10 | R |
| JM | INCOMB HULLBD | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 1.00 | 0.22 | K |
| JM | INCOMB HULLBD | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 1.50 | 0.22 | K |
| JM | INCOMB HULLBD | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 1.75 | 0.22 | K |
| JM | INCOMB HULLBD | FIBER GLASS | SINGLE MATERIAL | NONE | CLG WALL FLR | YES | NO | 2.00 | 0.22 | K |
| JM | MAD BD 475 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | MAD BD 800 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 6.50 | R |
| JM | MAD BD 800 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 8.70 | R |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/FLAS | EQUIP/PIPES | YES | YES | 1.00 | 0.23 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/FLAS | EQUIP/PIPES | YES | YES | 1.50 | 0.23 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 2.00 | 0.23 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/FLAS | EQUIP/PIPES | YES | YES | 2.50 | 0.23 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/FLAS | EQUIP/PIPES | YES | YES | 3.00 | 0.23 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/FLAS | EQUIP/PIPES | YES | YES | 3.50 | 0.23 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 4.00 | 0.23 | K |
| JM | MICRO-FLEX LOK GPI | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.50 | 0.24 | K |
| JM | MICRO-LOK GPI | FIBER GLASS | FACED SINGLE MATERIAL | MTL/GM | PIPES | YES | NO | 1.50 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.00 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.50 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.00 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.50 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 3.00 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 4.00 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 1.00 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 1.50 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 2.00 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 2.50 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 3.00 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 0.50 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.00 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.25 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.50 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.00 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.50 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 3.00 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 3.50 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 4.00 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 4.50 | 0.24 | K |
| JM | MICRO-LOK HP ULTRA | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 5.00 | 0.24 | K |
| JM | MINWOOL SAFING | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 14.80 | R |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.24 | K |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.00 | 3.70 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.50 | 5.55 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.00 | 7.40 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.50 | 9.25 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 11.10 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.50 | 12.95 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 14.80 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.50 | 16.65 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 5.00 | 18.50 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 5.50 | 20.35 | R |
| JM | SAFB | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 6.00 | 22.20 | R |
| JM | SPIRACOUSTIC PLUS | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | SPIRACOUSTIC PLUS | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.50 | 6.50 | R |
| JM | SPIRACOUSTIC PLUS | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 2.00 | 8.70 | R |
| JM | SUPERDUCT 475 | FIBER GLASS | COMPOSITE | METAL FOIL | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | SUPERDUCT 800 | FIBER GLASS | COMPOSITE | METAL FOIL | DUCTS | YES | YES | 1.50 | 6.50 | R |
| JM | SUPERDUCT 800 | FIBER GLASS | COMPOSITE | METAL FOIL | DUCTS | YES | YES | 2.00 | 8.70 | R |
| JM | SUPERROUND | FIBER GLASS | COMPOSITE | METAL FOIL | DUCTS | YES | YES | 1.00 | 0.23 | K |
| JM | SUSPEND-R | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | CEILING | YES | YES | 1.50 | 6.00 | R |
| JM | TEMPCONTROL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.50 | 15.00 | R |
| JM | TEMPCONTROL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 5.50 | 23.00 | R |
| JM | TEMPCONTROL | MINERAL WOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 7.25 | 30.00 | R |
| JM | THERMOLINER | FIBER GLASS | SINGLE MATERIAL | PLASTIC | CEILING WALL | YES | YES | 1.50 | 6.00 | R |
| JM | WHISPERTONE WALLBOARD 3.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILINGS | YES | NO | 1.00 | 0.23 | K |
| JM | WHISPERTONE WALLBOARD 3.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILINGS | YES | NO | 2.00 | 0.23 | K |
| JM | WHISPERTONE WALLBOARD 6.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILINGS | YES | NO | 1.00 | 0.22 | K |
| JM | WHISPERTONE WALLBOARD 6.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | CEILINGS | YES | NO | 2.00 | 0.22 | K |
| JM | WHISPERTONE MICROMAT 1.8 PCF | FIBER GLASS | COMPOSITE | FIBERGLASS | PANELS | YES | NO | 0.25 | 0.24 | K |
| JM | WHISPERTONE MICROMAT 1.8 PCF | FIBER GLASS | COMPOSITE | FIBERGLASS | PANELS | YES | NO | 0.50 | 0.24 | K |
| JM | WHISPERTONE MICROMAT 1.8 PCF | FIBER GLASS | COMPOSITE | FIBERGLASS | PANELS | YES | NO | 0.75 | 0.24 | K |
| JM | WHISPERTONE MICROMAT 1.8 PCF | FIBER GLASS | COMPOSITE | FIBERGLASS | PANELS | YES | NO | 1.00 | 0.24 | K |
| JM | WHISPERTONE MICROMAT 2.0 PCF | FIBER GLASS | COMPOSITE | FIBERGLASS | PANELS | YES | NO | 0.25 | 0.23 | K |
| JM | WHISPERTONE MICROMAT 2.0 PCF | FIBER GLASS | COMPOSITE | FIBERGLASS | PANELS | YES | NO | 0.50 | 0.23 | K |
| JM | WHISPERTONE MICROMAT 2.0 PCF | FIBER GLASS | COMPOSITE | FIBERGLASS | PANELS | YES | NO | 0.75 | 0.23 | K |
| JM | WHISPERTONE MICROMAT 2.0 PCF | FIBER GLASS | COMPOSITE | FIBERGLASS | PANELS | YES | NO | 1.00 | 0.23 | K |
| JM | ZESTON HI-LO INSULATION INSERTS | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.26 | K |

* DESCRIPTION OF BRAND CODES:
 JM = JOHNS MANVILLE
 FGS = FIBERGLASS

| Knauf Insulation - T 1002 | | | | | Updated 2/2015 | | | | | |
|---------------------------|----------------------|-------------|-----------------------|-------|----------------|-----|-----|--------|-------|---|
| KNF | ADB MFG HSG | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 0.8125 | 3.50 | R |
| KNF | AK BOARD FCD 2.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.50 | 6.50 | R |
| KNF | AK BOARD FCD 2.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.00 | 8.70 | R |
| KNF | AK BOARD FCD 2.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 3.00 | 13.00 | R |
| KNF | AK BOARD FCD 2.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 4.00 | 17.40 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 1.00 | 4.30 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 1.50 | 6.50 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 2.00 | 8.70 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 3.00 | 13.00 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 4.00 | 17.40 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.00 | 4.30 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.50 | 6.50 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.00 | 8.70 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 3.00 | 13.00 | R |
| KNF | AK BOARD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 4.00 | 17.40 | R |
| KNF | AK BOARD FCD 4.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.00 | 4.30 | R |
| KNF | AK BOARD FCD 4.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.50 | 6.50 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|----------------------|-------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| KNF | AK BOARD FCD 4.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.00 | 8.70 | R |
| KNF | AK BOARD FCD 4.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.50 | 10.90 | R |
| KNF | AK BOARD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 1.00 | 4.40 | R |
| KNF | AK BOARD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 1.50 | 6.70 | R |
| KNF | AK BOARD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 2.00 | 8.90 | R |
| KNF | AK BOARD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.00 | 4.40 | R |
| KNF | AK BOARD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.50 | 6.70 | R |
| KNF | AK BOARD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.00 | 8.90 | R |
| KNF | AK BOARD PLN 1.6PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.30 | R |
| KNF | AK BOARD PLN 1.6PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.30 | R |
| KNF | AK BOARD PLN 1.6PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.50 | R |
| KNF | AK BOARD PLN 1.6PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.70 | R |
| KNF | AK BOARD PLN 2.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.50 | R |
| KNF | AK BOARD PLN 2.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.70 | R |
| KNF | AK BOARD PLN 2.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 13.00 | R |
| KNF | AK BOARD PLN 2.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 17.40 | R |
| KNF | AK BOARD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.30 | R |
| KNF | AK BOARD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.50 | R |
| KNF | AK BOARD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.70 | R |
| KNF | AK BOARD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 13.00 | R |
| KNF | AK BOARD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 17.40 | R |
| KNF | AK BOARD PLN 4.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.30 | R |
| KNF | AK BOARD PLN 4.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.50 | R |
| KNF | AK BOARD PLN 4.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.70 | R |
| KNF | AK BOARD PLN 4.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.90 | R |
| KNF | AK BOARD PLN 6.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.40 | R |
| KNF | AK BOARD PLN 6.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.70 | R |
| KNF | AK BOARD PLN 6.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.90 | R |
| KNF | AKOUSTI-LINER R 3PCF | FIBER GLASS | COMPOSITE | PLASTIC | DUCTS | YES | NO | 1.00 | 4.30 | R |
| KNF | AKOUSTI-LINER R 3PCF | FIBER GLASS | COMPOSITE | PLASTIC | DUCTS | YES | NO | 1.50 | 6.50 | R |
| KNF | AKOUSTI-LINER R 3PCF | FIBER GLASS | COMPOSITE | PLASTIC | DUCTS | YES | NO | 2.00 | 8.60 | R |
| KNF | ALLEY KAT ADB 475 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 4.30 | R |
| KNF | ALLEY KAT ADB 800 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 4.30 | R |
| KNF | ALLEY KAT ADB 800 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 6.50 | R |
| KNF | ALLEY KAT ADB 800 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 8.70 | R |
| KNF | ECLIPSE ADB 475 | FIBER GLASS | COMPOSITE | METAL | DUCTS | YES | YES | 1.00 | 4.30 | R |
| KNF | ECLIPSE ADB 800 | FIBER GLASS | COMPOSITE | METAL | DUCTS | YES | YES | 1.00 | 4.30 | R |
| KNF | ECLIPSE ADB 800 | FIBER GLASS | COMPOSITE | METAL | DUCTS | YES | YES | 1.50 | 6.50 | R |
| KNF | ECLIPSE ADB 800 | FIBER GLASS | COMPOSITE | METAL | DUCTS | YES | YES | 2.00 | 8.70 | R |
| KNF | INSULBD FCD 2.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.50 | 6.50 | R |
| KNF | INSULBD FCD 2.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.00 | 8.70 | R |
| KNF | INSULBD FCD 2.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 3.00 | 13.00 | R |
| KNF | INSULBD FCD 2.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 4.00 | 17.40 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 1.00 | 4.30 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 1.50 | 6.50 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 2.00 | 8.70 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 3.00 | 13.00 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 4.00 | 17.40 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.00 | 4.30 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.50 | 6.50 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.00 | 8.70 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 3.00 | 13.00 | R |
| KNF | INSULBD FCD 3.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 4.00 | 17.40 | R |
| KNF | INSULBD FCD 4.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.00 | 4.30 | R |
| KNF | INSULBD FCD 4.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.50 | 6.50 | R |
| KNF | INSULBD FCD 4.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.00 | 8.70 | R |
| KNF | INSULBD FCD 4.25PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.50 | 10.90 | R |
| KNF | INSULBD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 1.00 | 4.40 | R |
| KNF | INSULBD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 1.50 | 6.70 | R |
| KNF | INSULBD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | KRAFT | WALL | YES | YES | 2.00 | 8.90 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------|-------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| KNF | INSULBD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.00 | 4.40 | R |
| KNF | INSULBD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 1.50 | 6.70 | R |
| KNF | INSULBD FCD 6.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | WALL | YES | YES | 2.00 | 8.90 | R |
| KNF | INSULBD PLN 1.6PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.30 | R |
| KNF | INSULBD PLN 1.6PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.30 | R |
| KNF | INSULBD PLN 1.6PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.50 | R |
| KNF | INSULBD PLN 1.6PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.70 | R |
| KNF | INSULBD PLN 2.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.50 | R |
| KNF | INSULBD PLN 2.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.70 | R |
| KNF | INSULBD PLN 2.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 13.00 | R |
| KNF | INSULBD PLN 2.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 17.40 | R |
| KNF | INSULBD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.30 | R |
| KNF | INSULBD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.50 | R |
| KNF | INSULBD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.70 | R |
| KNF | INSULBD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 13.00 | R |
| KNF | INSULBD PLN 3.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 17.40 | R |
| KNF | INSULBD PLN 4.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.30 | R |
| KNF | INSULBD PLN 4.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.50 | R |
| KNF | INSULBD PLN 4.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.70 | R |
| KNF | INSULBD PLN 4.25PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.90 | R |
| KNF | INSULBD PLN 6.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.40 | R |
| KNF | INSULBD PLN 6.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.70 | R |
| KNF | INSULBD PLN 6.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.90 | R |
| KNF | RGD DT LIN 3PCF | FIBER GLASS | COMPOSITE | PLASTIC | DUCTS | YES | NO | 1.00 | 4.30 | R |
| KNF | RGD DT LIN 3PCF | FIBER GLASS | COMPOSITE | PLASTIC | DUCTS | YES | NO | 1.50 | 6.50 | R |
| KNF | RGD DT LIN 3PCF | FIBER GLASS | COMPOSITE | PLASTIC | DUCTS | YES | NO | 2.00 | 8.60 | R |
| KNF | RGD DT LIN 3PCF | FIBER GLASS | COMPOSITE | PLASTIC | DUCTS | YES | NO | 3.00 | 13.00 | R |

* DESCRIPTION OF BRAND CODES:
KNF = KNAUF INSULATION

| Owens-Corning Insulating Systems LLC - T 1428 | | | | | | Updated 12/8/2023 | | | | |
|---|------------------|------------|-----------------------|-------|-----------|-------------------|-----|------|------|---|
| FG | DUCT LINER BOARD | FIBERGLASS | SINGLE MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 0.23 | K |
| FG | DUCT LINER BOARD | FIBERGLASS | SINGLE MATERIAL | OTHER | DUCTS | YES | NO | 2.00 | 0.23 | K |
| FG | INSUL-QUICK | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.23 | K |
| FG | INSUL-QUICK | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.23 | K |
| FG | INSUL-QUICK | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.23 | K |
| FG | INSUL-QUICK | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.23 | K |
| FG | INSUL-QUICK | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.23 | K |
| FG | INSUL-QUICK | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.23 | K |
| FG | INSUL-QUICK | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.23 | K |
| FG | WALL & INDUS 703 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.23 | K |
| FG | WALL & INDUS 703 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.25 | 0.23 | K |
| FG | WALL & INDUS 703 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.23 | K |
| FG | WALL & INDUS 703 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.23 | K |
| FG | WALL & INDUS 703 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.23 | K |
| FG | WALL & INDUS 703 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.23 | K |
| FG | WALL & INDUS 703 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.25 | 0.23 | K |
| FG | WALL & INDUS 703 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.23 | K |
| FG | WALL & INDUS 703 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.23 | K |
| FG | WALL & INDUS 705 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.23 | K |
| FG | WALL & INDUS 705 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.23 | K |
| FG | WALL & INDUS 705 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.23 | K |
| FG | WALL & INDUS 705 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.23 | K |
| FG | WALL & INDUS 705 | FIBERGLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.23 | K |
| FG | WALL&IND ASJ 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.23 | K |
| FG | WALL&IND ASJ 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.23 | K |
| FG | WALL&IND ASJ 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.23 | K |
| FG | WALL&IND ASJ 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.23 | K |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------|-------------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| FG | WALL&IND ASJ 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.23 | K |
| FG | WALL&IND ASJ 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.23 | K |
| FG | WALL&IND ASJ 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.23 | K |
| FG | WALL&IND ASJ 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.23 | K |
| FG | WALL&IND ASJ 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.23 | K |
| FG | WALL&IND ASJ 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.23 | K |
| FG | WALL&IND FRK 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.23 | K |
| FG | WALL&IND FRK 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.23 | K |
| FG | WALL&IND FRK 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.23 | K |
| FG | WALL&IND FRK 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.23 | K |
| FG | WALL&IND FRK 703 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.23 | K |
| FG | WALL&IND FRK 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 1.00 | 0.23 | K |
| FG | WALL&IND FRK 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 1.50 | 0.23 | K |
| FG | WALL&IND FRK 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 2.00 | 0.23 | K |
| FG | WALL&IND FRK 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 2.50 | 0.23 | K |
| FG | WALL&IND FRK 705 | FIBERGLASS | FACED SINGLE MATERIAL | METAL | EQUIPMENT | YES | YES | 3.00 | 0.23 | K |
| FG | WARM-N-DRI EXTER | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 0.75 | 3.00 | R |
| FG | WARM-N-DRI EXTER | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.19 | 5.00 | R |
| FG | WARM-N-DRI EXTER | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.38 | 10.00 | R |
| FG | WARM-N-DRI EXTER | FIBER GLASS | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 15.00 | R |

* DESCRIPTION OF BRAND CODES:
FG = FIBERGLAS

| Rockwool - T 1360 | | | | | Updated 08/06/2024 | | | | | |
|-------------------|---------------------|----------|-----------------------|---------------|--------------------|----|----|------|-------|---|
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.50 | 10.75 | R |
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 12.90 | R |
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.50 | 15.05 | R |
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 17.20 | R |
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.50 | 19.35 | R |
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 5.00 | 21.50 | R |
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 5.50 | 23.65 | R |
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 6.00 | 25.80 | R |
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 7.00 | 30.10 | R |
| RI | CAVITYROCK | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 8.00 | 34.40 | R |
| RI | CAVITYROCK BLACK | ROCKWOOL | FACED SINGLE MATERIAL | MINERAL FACER | WALL | NO | NO | 2.50 | 10.75 | R |
| RI | CAVITYROCK BLACK | ROCKWOOL | FACED SINGLE MATERIAL | MINERAL FACER | WALL | NO | NO | 3.00 | 12.90 | R |
| RI | CAVITYROCK BLACK | ROCKWOOL | FACED SINGLE MATERIAL | MINERAL FACER | WALL | NO | NO | 3.50 | 15.05 | R |
| RI | CAVITYROCK BLACK | ROCKWOOL | FACED SINGLE MATERIAL | MINERAL FACER | WALL | NO | NO | 4.00 | 17.20 | R |
| RI | CAVITYROCK BLACK | ROCKWOOL | FACED SINGLE MATERIAL | MINERAL FACER | WALL | NO | NO | 5.00 | 21.50 | R |
| RI | CAVITYROCK BLACK | ROCKWOOL | FACED SINGLE MATERIAL | MINERAL FACER | WALL | NO | NO | 6.00 | 25.80 | R |
| RI | CAVITYROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.00 | 4.30 | R |
| RI | CAVITYROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.50 | 6.45 | R |
| RI | CAVITYROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.00 | 8.60 | R |
| RI | CAVITYROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.25 | 9.68 | R |
| RI | CAVITYROCK MD BLACK | ROCKWOOL | FACED SINGLE MATERIAL | MINERAL FACER | WALL | NO | NO | 2.00 | 8.60 | R |
| RI | COMFORTBOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.50 | 6.30 | R |
| RI | COMFORTBOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.00 | 8.40 | R |
| RI | COMFORTBOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.50 | 10.50 | R |
| RI | COMFORTBOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 12.60 | R |
| RI | COMFORTBOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.50 | 14.70 | R |
| RI | COMFORTBOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 16.80 | R |
| RI | COMFORTBOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 5.00 | 21.00 | R |
| RI | COMFORTBOARD 110 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.00 | 4.00 | R |
| RI | COMFORTBOARD 110 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.50 | 6.00 | R |
| RI | COMFORTBOARD 110 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.00 | 8.00 | R |
| RI | COMFORTBOARD 110 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.50 | 10.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|--------------------|----------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| RI | COMFORTBOARD 110 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 12.00 | R |
| RI | COMFORTBOARD 110 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.50 | 14.00 | R |
| RI | COMFORTBOARD 110 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 16.00 | R |
| RI | COMFORTBOARD 110 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 5.00 | 20.00 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.45 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.60 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.75 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.90 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 15.05 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 17.20 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 19.35 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 21.50 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 25.80 | R |
| RI | CURTAINROCK 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.00 | 30.10 | R |
| RI | CURTAINROCK 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 2.00 | 8.60 | R |
| RI | CURTAINROCK 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 2.50 | 10.75 | R |
| RI | CURTAINROCK 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 3.00 | 12.90 | R |
| RI | CURTAINROCK 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 3.50 | 15.05 | R |
| RI | CURTAINROCK 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 4.00 | 17.20 | R |
| RI | CURTAINROCK 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 4.50 | 19.35 | R |
| RI | CURTAINROCK 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 5.00 | 21.50 | R |
| RI | CURTAINROCK 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 6.00 | 25.80 | R |
| RI | CURTAINROCK 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 7.00 | 30.10 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.30 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.45 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.60 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.75 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.90 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 15.05 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 17.20 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 19.35 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 21.50 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 25.80 | R |
| RI | CURTAINROCK 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.00 | 30.10 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 1.00 | 4.30 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 1.50 | 6.45 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 2.00 | 8.60 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 3.50 | 15.05 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 3.00 | 12.90 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 2.50 | 10.75 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 4.00 | 17.20 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 4.50 | 19.35 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 5.00 | 21.50 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 6.00 | 25.80 | R |
| RI | CURTAINROCK 80 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 7.00 | 30.10 | R |
| RI | FRONTROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 1.50 | 6.00 | R |
| RI | FRONTROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.00 | 8.00 | R |
| RI | FRONTROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.50 | 10.00 | R |
| RI | FRONTROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 12.00 | R |
| RI | FRONTROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 16.00 | R |
| RI | FRONTROCK MD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 5.00 | 20.00 | R |
| RI | FRONTROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.50 | 10.00 | R |
| RI | FRONTROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 12.00 | R |
| RI | FRONTROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.50 | 14.00 | R |
| RI | FRONTROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 16.00 | R |
| RI | ROCKBOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.20 | R |
| RI | ROCKBOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.30 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------|----------|-----------------------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| RI | ROCKBOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.40 | R |
| RI | ROCKBOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.50 | R |
| RI | ROCKBOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.60 | R |
| RI | ROCKBOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.80 | R |
| RI | ROCKBOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 21.00 | R |
| RI | ROCKBOARD 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 2.50 | 10.50 | R |
| RI | ROCKBOARD 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 3.00 | 12.60 | R |
| RI | ROCKBOARD 40 RFF | ROCKWOOL | FACED SINGLE MATERIAL | FOIL | WALL | YES | YES | 4.00 | 16.80 | R |
| RI | ROCKBOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.40 | R |
| RI | ROCKBOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.60 | R |
| RI | ROCKBOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.80 | R |
| RI | ROXUL SAFE 55 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 4.00 | 16.80 | R |
| RI | ROXUL SAFE 65 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 12.60 | R |
| RI | TOPROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | ROOF/DECK | NO | NO | 2.00 | 7.60 | R |
| RI | TOPROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | ROOF/DECK | NO | NO | 2.50 | 9.50 | R |
| RI | TOPROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | ROOF/DECK | NO | NO | 3.00 | 11.40 | R |
| RI | TOPROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | ROOF/DECK | NO | NO | 3.50 | 13.30 | R |
| RI | TOPROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | ROOF/DECK | NO | NO | 4.00 | 15.20 | R |
| RI | TOPROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | ROOF/DECK | NO | NO | 4.50 | 17.10 | R |
| RI | TOPROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | ROOF/DECK | NO | NO | 5.00 | 19.00 | R |
| RI | TOPROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | ROOF/DECK | NO | NO | 5.50 | 20.90 | R |
| RI | TOPROCK DD | ROCKWOOL | SINGLE MATERIAL | NONE | ROOF/DECK | NO | NO | 6.00 | 22.80 | R |
| RI | TOPROCK DD PLUS | ROCKWOOL | FACED SINGLE MATERIAL | ASPHALT | ROOF/DECK | NO | NO | 2.00 | 7.60 | R |
| RI | TOPROCK DD PLUS | ROCKWOOL | FACED SINGLE MATERIAL | ASPHALT | ROOF/DECK | NO | NO | 2.50 | 9.50 | R |
| RI | TOPROCK DD PLUS | ROCKWOOL | FACED SINGLE MATERIAL | ASPHALT | ROOF/DECK | NO | NO | 3.00 | 11.40 | R |
| RI | TOPROCK DD PLUS | ROCKWOOL | FACED SINGLE MATERIAL | ASPHALT | ROOF/DECK | NO | NO | 3.50 | 13.30 | R |
| RI | TOPROCK DD PLUS | ROCKWOOL | FACED SINGLE MATERIAL | ASPHALT | ROOF/DECK | NO | NO | 4.00 | 15.20 | R |
| RI | MULTIFIX | ROCKWOOL | FACED SINGLE MATERIAL | FIBERGLASS | ROOF/DECK | NO | NO | 2.00 | 7.60 | R |
| RI | MULTIFIX | ROCKWOOL | FACED SINGLE MATERIAL | FIBERGLASS | ROOF/DECK | NO | NO | 2.50 | 9.50 | R |
| RI | MULTIFIX | ROCKWOOL | FACED SINGLE MATERIAL | FIBERGLASS | ROOF/DECK | NO | NO | 3.00 | 11.40 | R |
| RI | MULTIFIX | ROCKWOOL | FACED SINGLE MATERIAL | FIBERGLASS | ROOF/DECK | NO | NO | 3.50 | 13.30 | R |
| RI | MULTIFIX | ROCKWOOL | FACED SINGLE MATERIAL | FIBERGLASS | ROOF/DECK | NO | NO | 4.00 | 15.20 | R |

* DESCRIPTION OF BRAND CODES:
RI = ROCKWOOL

| Thermafiber Inc. - T 1437 | | | | | | Updated 11/13/2024 | | | | |
|---------------------------|-----------------------|----------|-------------------|-------|------|--------------------|-----|------|-------|---|
| TCW | Fire&Sound Guard Plus | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.00 | R |
| TCW | Fire&Sound Guard Plus | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 11.00 | R |
| TCW | Fire&Sound Guard Plus | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 13.00 | R |
| TCW | Fire&Sound Guard Plus | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 15.00 | R |
| TCW | Fire&Sound Guard Plus | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 21.00 | R |
| TCW | Fire&Sound Guard Plus | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 23.00 | R |
| TCW | Fire&Sound Guard Plus | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 24.00 | R |
| TCW | Fire&Sound Guard Plus | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.13 | 30.00 | R |
| TCW | FIRESpan 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.00 | 8.33 | R |
| TCW | FIRESpan 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.50 | 10.42 | R |
| TCW | FIRESpan 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.00 | 12.50 | R |
| TCW | FIRESpan 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.50 | 14.60 | R |
| TCW | FIRESpan 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.00 | 16.67 | R |
| TCW | FIRESpan 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.50 | 18.77 | R |
| TCW | FIRESpan 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.00 | 20.85 | R |
| TCW | FIRESpan 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.50 | 22.94 | R |
| TCW | FIRESpan 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 6.00 | 25.02 | R |
| TCW | FIRESpan 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.34 | R |
| TCW | FIRESpan 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.43 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------|----------|-------------------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| TCW | FIRESPAN 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | FIRESPAN 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | FIRESPAN 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | FIRESPAN 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | FIRESPAN 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | FIRESPAN 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | FIRESPAN 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 1.00 | 4.16 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 1.50 | 6.25 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.00 | 8.33 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.50 | 10.42 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.00 | 12.50 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.50 | 14.60 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.00 | 16.68 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.50 | 18.77 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.00 | 20.85 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.50 | 22.94 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 6.00 | 25.02 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.16 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.25 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.33 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.42 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.50 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | FIRESPAN 90 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.34 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.43 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.50 | 27.11 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.00 | 29.19 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.50 | 31.28 | R |
| TCW | RAINBARRIER | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 8.00 | 33.36 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 2.00 | 8.34 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 2.50 | 10.43 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 6.50 | 27.11 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 7.00 | 29.19 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 7.50 | 31.28 | R |
| TCW | RAINBARRIER DARK | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 8.00 | 33.36 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.16 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.24 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------|----------|-------------------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.32 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.40 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.48 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.56 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.64 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 18.72 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 20.80 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 22.88 | R |
| TCW | RAINBARRIER HC | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 24.96 | R |
| TCW | RAINBARRIER HC PLUS | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.25 | 5.20 | R |
| TCW | RAINBARRIER HC PLUS | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.24 | R |
| TCW | RAINBARRIER HC PLUS | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.32 | R |
| TCW | RAINBARRIER HC PLUS | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.40 | R |
| TCW | RAINBARRIER HC PLUS | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.48 | R |
| TCW | RAINBARRIER HC PLUS | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.56 | R |
| TCW | RAINBARRIER HC PLUS | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.64 | R |
| TCW | RAINBARRIER HC MAX | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.00 | 4.16 | R |
| TCW | RAINBARRIER HC MAX | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.24 | R |
| TCW | RAINBARRIER HC MAX | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.32 | R |
| TCW | RAINBARRIER HC MAX | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.40 | R |
| TCW | RAINBARRIER HC MAX | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.48 | R |
| TCW | RAINBARRIER HC MAX | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.56 | R |
| TCW | RAINBARRIER HC MAX | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.64 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 1.50 | 6.26 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.34 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.43 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.50 | 27.11 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.00 | 29.19 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.50 | 31.28 | R |
| TCW | SAFING | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 8.00 | 33.36 | R |
| TCW | SAFING | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.00 | 16.67 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.00 | 8.33 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.50 | 10.42 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.00 | 12.50 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.50 | 14.58 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.00 | 16.67 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.50 | 18.75 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.00 | 20.85 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.50 | 22.94 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 6.00 | 25.02 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 6.50 | 27.11 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 7.00 | 29.19 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 7.50 | 31.28 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 8.00 | 33.36 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 5.50 | 22.94 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------|----------|-------------------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 6.50 | 27.11 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 7.00 | 29.19 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 7.50 | 31.28 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 8.00 | 33.36 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.34 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.43 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.50 | 27.11 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.00 | 29.19 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.50 | 31.28 | R |
| TCW | VERSABOARD 40 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 8.00 | 33.36 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.00 | 8.34 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.50 | 10.43 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.00 | 12.51 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.50 | 14.60 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.00 | 16.68 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.50 | 18.77 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.00 | 20.85 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.50 | 22.94 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 6.00 | 25.02 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 6.50 | 27.11 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 7.00 | 29.19 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 7.50 | 31.28 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 8.00 | 33.36 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 2.00 | 8.34 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 2.50 | 10.43 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 6.50 | 27.11 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 7.00 | 29.19 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 7.50 | 31.28 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 8.00 | 33.36 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.34 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.43 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.50 | 27.11 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.00 | 29.19 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.50 | 31.28 | R |
| TCW | VERSABOARD 60 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 8.00 | 33.36 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------|----------|-------------------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.00 | 8.34 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 2.50 | 10.43 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.00 | 12.51 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 3.50 | 14.60 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.00 | 16.68 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 4.50 | 18.77 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.00 | 20.85 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 5.50 | 22.94 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 6.00 | 25.02 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 6.50 | 27.11 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 7.00 | 29.19 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 7.50 | 31.28 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | METAL | WALL | YES | YES | 8.00 | 33.36 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 2.00 | 8.34 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 2.50 | 10.43 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 6.50 | 27.11 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 7.00 | 29.19 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 7.50 | 31.28 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | FACED SINGLE MATL | FIBERGLASS | WALL | YES | NO | 8.00 | 33.36 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.00 | 8.34 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 2.50 | 10.43 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.00 | 12.51 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 3.50 | 14.60 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.00 | 16.68 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 4.50 | 18.77 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.00 | 20.85 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 5.50 | 22.94 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.00 | 25.02 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 6.50 | 27.11 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.00 | 29.19 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 7.50 | 31.28 | R |
| TCW | VERSABOARD 80 | ROCKWOOL | SINGLE MATERIAL | NONE | WALL | YES | NO | 8.00 | 33.36 | R |

* DESCRIPTION OF BRAND CODES:
TCW = THERMAFIBER CURTAIN WALL INSULATION

| Polyisocyanurate Board | | | | | | | | | | |
|------------------------------------|----------------|--------------|-----------------------|------------------|-----------|--------------------|----|------|-------|---|
| Atlas Roofing Corporation - T 1231 | | | | | | Updated 06/08/2020 | | | | |
| ARC | ACFOAM COMP | ISOCYANURATE | COMPOSITE | PERLITE/GLS FBR | ROOF DECK | NO | NO | 1.50 | 7.10 | R |
| ARC | ACFOAM COMP | ISOCYANURATE | COMPOSITE | PERLITE/GLS FBR | ROOF DECK | NO | NO | 1.80 | 8.80 | R |
| ARC | ACFOAM COMP | ISOCYANURATE | COMPOSITE | PERLITE/GLS FBR | ROOF DECK | NO | NO | 2.20 | 11.10 | R |
| ARC | ACFOAM COMP | ISOCYANURATE | COMPOSITE | PERLITE/GLS FBR | ROOF DECK | NO | NO | 2.40 | 12.20 | R |
| ARC | ACFOAM COMP | ISOCYANURATE | COMPOSITE | PERLITE/GLS FBR | ROOF DECK | NO | NO | 2.50 | 12.80 | R |
| ARC | ACFOAM COMP | ISOCYANURATE | COMPOSITE | PERLITE/GLS FBR | ROOF DECK | NO | NO | 3.10 | 16.40 | R |
| ARC | ACFOAM COMP/GB | ISOCYANURATE | COMPOSITE/DD | GLASS FIBER | ROOF DECK | NO | NO | 1.50 | 6.30 | R |
| ARC | ACFOAM COMP/GB | ISOCYANURATE | COMPOSITE/DD | GLASS FIBER | ROOF DECK | NO | NO | 4.20 | 22.30 | R |
| ARC | ACFOAM-II | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| ARC | ACFOAM-II | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| ARC | ACFOAM-II | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| ARC | ACFOAM-II | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 2.50 | 14.40 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|--------------------|--------------|-----------------------|-------------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| ARC | ACFOAM-II | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| ARC | ACFOAM-II | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| ARC | ACFOAM-II | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| ARC | ACFOAM-III | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| ARC | ACFOAM-III | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| ARC | ACFOAM-III | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| ARC | ACFOAM-III | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| ARC | ACFOAM-III | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| ARC | ACFOAM-III | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| ARC | ACFOAM-III | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| ARC | ACFOAM SUPREME | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL KRAFT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| ARC | ACFOAM SUPREME | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL KRAFT | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| ARC | ACFOAM SUPREME | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL KRAFT | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| ARC | ACFOAM SUPREME | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL KRAFT | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| ARC | ACFOAM SUPREME | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL KRAFT | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| ARC | ACFOAM SUPREME | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL KRAFT | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| ARC | ACFOAM SUPREME | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL KRAFT | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| ARC | ATLAS NAILBASE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 1.50 | 6.30 | R |
| ARC | ATLAS NAILBASE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.00 | 9.10 | R |
| ARC | ATLAS NAILBASE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.00 | 15.00 | R |
| ARC | ATLAS NAILBASE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 4.00 | 21.10 | R |
| ARC | CROSSVENT | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.50 | 5.70 | R |
| ARC | CROSSVENT | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 5.50 | 23.60 | R |
| ARC | CROSSVENT RB | ISOCYANURATE | COMPOSITE/RB | BOARD | ROOF DECK | NO | NO | 2.50 | 5.70 | R |
| ARC | CROSSVENT RB | ISOCYANURATE | COMPOSITE/RB | BOARD | ROOF DECK | NO | NO | 5.50 | 23.60 | R |
| ARC | ENERGY SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 0.50 | 3.30 | R |
| ARC | ENERGY SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 0.62 | 4.10 | R |
| ARC | ENERGY SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 0.75 | 5.00 | R |
| ARC | ENERGY SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 1.00 | 6.50 | R |
| ARC | ENERGY SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 1.50 | 9.80 | R |
| ARC | ENERGY SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 2.00 | 13.10 | R |
| ARC | ENERGYSHIELD CGF | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBER | WALL | NO | NO | 0.50 | 3.00 | R |
| ARC | ENERGYSHIELD CGF | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBER | WALL | NO | NO | 1.00 | 6.00 | R |
| ARC | ENERGYSHIELD CGF | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | NO | 1.50 | 9.00 | R |
| ARC | ENERGYSHIELD CGF | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | NO | 2.00 | 12.10 | R |
| ARC | ENERGYSHIELD CGF | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | NO | 2.50 | 15.30 | R |
| ARC | ENERGYSHIELD CGF | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | NO | 3.00 | 18.50 | R |
| ARC | ENERGYSHIELD CGF | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | NO | 3.50 | 21.70 | R |
| ARC | ENERGY SHIELD PRO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL | CLG WALL FLR | YES | YES** | 1.00 | 6.50 | R |
| ARC | ENERGY SHIELD PRO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL | CLG WALL FLR | YES | YES** | 1.50 | 9.80 | R |
| ARC | ENERGY SHIELD PRO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL | CLG WALL FLR | YES | YES** | 2.00 | 13.10 | R |
| ARC | ENERGY SHIELD PRO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL | CLG WALL FLR | YES | YES** | 2.50 | 16.00 | R |
| ARC | ENERGY SHIELD PRO2 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL | CLG WALL FLR | YES | YES** | 1.00 | 6.50 | R |
| ARC | ENERGY SHIELD PRO2 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL | CLG WALL FLR | YES | YES** | 1.50 | 9.80 | R |
| ARC | ENERGY SHIELD PRO2 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL | CLG WALL FLR | YES | YES** | 2.00 | 13.10 | R |
| ARC | ENERGY SHIELD PRO2 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL | CLG WALL FLR | YES | YES** | 2.50 | 16.00 | R |
| ARC | ENERGY SHIELD PRO2 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL | CLG WALL FLR | YES | YES** | 3.00 | 19.70 | R |
| ARC | STUCCO-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | CLG WALL FLR | NO | NO | 1.00 | 6.00 | R |
| ARC | STUCCO-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | CLG WALL FLR | NO | NO | 1.50 | 9.00 | R |
| ARC | STUCCO-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | CLG WALL FLR | NO | NO | 2.00 | 12.10 | R |

** With taped joints.

* DESCRIPTION OF BRAND CODES:
 ARC = ATLAS ROOFING CORP.

| Carlisle Coatings and Waterproofing - T 1501 | | | | | | Updated 10/08/2015 | | | | |
|--|-----------------|--------------|-----------|---------|------|--------------------|----|------|------|---|
| R2B | R2+ BASE 319811 | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 1.60 | 6.60 | R |
| R2B | R2+ BASE 319812 | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 2.10 | 9.60 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------|--------------|-----------------------|-------------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| R2B | R2+ BASE 319813 | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 2.60 | 12.70 | R |
| R2B | R2+ BASE 319814 | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 3.10 | 15.90 | R |
| R2B | R2+ BASE 321990 | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 3.70 | 19.10 | R |
| R2H | R2+ SHEATHE | ISOCYANURATE | FACED SINGLE MATERIAL | EMBOSSED FOIL | WALL | NO | YES | 1.00 | 6.50 | R |
| R2H | R2+ SHEATHE | ISOCYANURATE | FACED SINGLE MATERIAL | EMBOSSED FOIL | WALL | NO | YES | 1.50 | 10.00 | R |
| R2H | R2+ SHEATHE | ISOCYANURATE | FACED SINGLE MATERIAL | EMBOSSED FOIL | WALL | NO | YES | 2.00 | 13.00 | R |
| R2H | R2+ SHEATHE | ISOCYANURATE | FACED SINGLE MATERIAL | EMBOSSED FOIL | WALL | NO | YES | 2.50 | 16.50 | R |
| R2H | R2+ SHEATHE | ISOCYANURATE | FACED SINGLE MATERIAL | EMBOSSED FOIL | WALL | NO | YES | 3.00 | 20.30 | R |
| R2H | R2+ SHEATHE | ISOCYANURATE | FACED SINGLE MATERIAL | EMBOSSED FOIL | WALL | NO | YES | 3.50 | 23.00 | R |
| R2M | R2+ MATTE 319100 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 1.00 | 6.00 | R |
| R2M | R2+ MATTE 319101 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 1.50 | 9.00 | R |
| R2M | R2+ MATTE 319102 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 2.00 | 12.10 | R |
| R2M | R2+ MATTE 319103 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 2.50 | 15.30 | R |
| R2M | R2+ MATTE 319104 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 3.00 | 18.50 | R |
| R2M | R2+ MATTE 322475 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 3.30 | 20.40 | R |
| R2M | R2+ MATTE 322483 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 3.50 | 21.70 | R |
| R2S | R2+ SILVER 322874 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | WALL | NO | YES | 1.00 | 6.7 ** | R |
| R2S | R2+ SILVER 322875 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | WALL | NO | YES | 1.50 | 10.5 ** | R |
| R2S | R2+ SILVER 322876 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | WALL | NO | YES | 2.00 | 14.4 ** | R |
| R2S | R2+ SILVER 322877 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | WALL | NO | YES | 2.50 | 17.8 ** | R |
| R2S | R2+ SILVER 322879 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | WALL | NO | YES | 3.00 | 21.2 ** | R |
| R2S | R2+ SILVER 322880 | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | WALL | NO | YES | 3.50 | 24.6 ** | R |

**= Initial R-Values

* DESCRIPTION OF BRAND CODES:

R2B = R2+ BASE
R2H = R2+ SHEATHE
R2M= R2+ MATTE
R2S=R2+ SILVER

| Carlisle Syntec Inc. - T 1418 | | | | | | Updated 09/30/2024 | | | | |
|-------------------------------|--------------------------|--------------|-----------------------|-------------------|-----------|--------------------|----|------|---------|---|
| CCD | SECURSHIELD CD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| CCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| CCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| CCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| CCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| CCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| CCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| CCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| CFF | HP-F POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 1.00 | 6.7 ** | R |
| CFF | HP-F POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 1.50 | 10.5 ** | R |
| CFF | HP-F POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 2.00 | 14.4 ** | R |
| CFF | HP-F POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 2.50 | 17.8 ** | R |
| CFF | HP-F POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 2.70 | 19.3 ** | R |
| CFF | HP-F POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 3.00 | 21.2 ** | R |
| CFF | HP-F POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 4.00 | 28 ** | R |
| CHC | SECURSHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 2.00 | 11.10 | R |
| CHC | SECURSHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 2.50 | 13.90 | R |
| CHC | SECURSHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 3.00 | 16.90 | R |
| CHC | SECURSHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 4.00 | 23.00 | R |
| CHD | SECURSHIELD HD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| CNB | HP-NB POLYISO | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 1.50 | 6.20 | R |
| CNB | HP-NB POLYISO | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 2.00 | 9.20 | R |
| CNB | HP-NB POLYISO | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 3.00 | 15.00 | R |
| CNB | HP-NB POLYISO | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 4.00 | 21.10 | R |
| CSD | HP-H POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| CSD | HP-H POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------|--------------|-----------------------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| CSD | HP-H POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| CSD | HP-H POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| CSD | HP-H POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| CSD | HP-H POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| CSD | HP-H POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| CSD | HP-H POLYISO | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| CWF | HP-WF POLYISO | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 1.50 | 7.00 | R |
| CWF | HP-WF POLYISO | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 2.00 | 10.00 | R |
| CWF | HP-WF POLYISO | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 2.50 | 12.80 | R |
| CWF | HP-WF POLYISO | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 3.00 | 15.80 | R |
| CWF | HP-WF POLYISO | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 3.50 | 18.80 | R |
| CWF | HP-WF POLYISO | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 4.00 | 21.90 | R |

**=Initial R-Values

* DESCRIPTION OF BRAND CODES:

CCD = SECURSHIELD CD

CCG = SECURSHIELD

CFF = HP-F POLYISO

CHC = SECURSHIELD HD COMPOSITE

CHD= SECURSHIELD HD

CNB = HP-NB POLYISO

CSD = HP-H POLYISO

CWF = HP-WF POLYISO

| DuPont de Nemours Inc. - T 1534 | | | | | | Updated 04/21/2022 | | | | |
|---------------------------------|---------------------|--------------|-----------------------|------------|--------------|--------------------|-----|------|-------|---|
| ISC | ISOCAST R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.00 | 6.40 | R |
| ISC | ISOCAST R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.50 | 9.60 | R |
| ISC | ISOCAST R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 2.00 | 12.6 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.70 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.60 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.60 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.30 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.30 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 9.60 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.10 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 13.60 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.10 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 16.60 | R |
| NHB | THERMAX BASIC NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.70 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.70 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.60 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.60 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.30 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.30 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 9.60 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 10.90 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.10 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.10 | R |
| NHH | THERMAX HDUTY HD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.70 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.70 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.60 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.60 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.30 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.30 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 9.60 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 10.90 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.10 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 13.60 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.10 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.65 | 16.00 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 16.60 | R |
| NHL | THERMAX LDUTY LD NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.70 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-----------------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.70 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.60 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.60 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.30 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.30 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 9.60 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 10.90 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.10 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 13.60 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.10 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 16.60 | R |
| NHM | THERMAX MTL BLDG NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.70 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.70 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.60 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.60 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.30 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.30 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 9.60 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 10.90 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.10 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 13.60 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.10 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 16.60 | R |
| NHW | THERMAX WHITE FACE NH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.70 | R |
| STR | SUPER TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 0.50 | 3.30 | R |
| STR | SUPER TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 0.63 | 4.10 | R |
| STR | SUPER TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 0.75 | 4.90 | R |
| STR | SUPER TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.38 | 8.80 | R |
| STR | SUPER TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.50 | 9.60 | R |
| STR | SUPER TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 2.00 | 12.60 | R |
| TFR | TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 0.50 | 3.30 | R |
| TFR | TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 0.63 | 4.10 | R |
| TFR | TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 0.75 | 4.90 | R |
| TFR | TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.00 | 6.40 | R |
| TFR | TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.50 | 9.60 | R |
| TFR | TUFF-R | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 2.00 | 12.60 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.30 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.50 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.10 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.80 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 10.10 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.60 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.80 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.90 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.20 | 20.20 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 20.50 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 22.10 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 23.60 | R |
| TXH | THERMAX HDUTY HD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 24.80 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.30 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.88 | 5.80 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.50 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.10 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.80 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 10.10 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.60 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 14.20 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.80 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.65 | 16.70 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 17.30 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.90 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 20.50 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 22.10 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 23.60 | R |
| TXL | THERMAX LDUTY LD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 24.80 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.30 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.50 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.10 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.80 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 10.10 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.60 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 14.20 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.80 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.63 | 16.60 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 17.30 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.90 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 20.50 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 22.10 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 23.60 | R |
| TXM | THERMAX MTL BLDG | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 24.80 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.30 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.63 | 4.20 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.50 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.10 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.38 | 9.00 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.80 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 10.10 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.60 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 14.20 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.80 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 17.30 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.90 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 20.50 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 22.10 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 23.60 | R |
| TXS | THERMAX (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 24.80 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.30 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.63 | 4.20 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.88 | 5.80 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.50 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.10 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.38 | 9.00 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.80 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 10.10 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.60 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 14.20 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.38 | 15.00 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.80 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.63 | 16.60 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 17.30 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.88 | 18.10 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.90 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 20.50 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 22.10 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 23.60 | R |
| TXS | THERMAX SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 24.80 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.30 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.63 | 4.20 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.50 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.10 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.80 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 10.10 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.60 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 14.20 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.80 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 17.30 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.90 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 20.50 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 22.10 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 23.60 | R |
| TXS | THERMAX XARMOR (CI) | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 24.80 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.50 | 3.30 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.50 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 8.10 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.80 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.55 | 10.10 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 12.60 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 14.20 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 15.80 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.75 | 17.30 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 18.90 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 20.50 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 22.10 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 23.60 | R |
| TXW | THERMAX WHITE FACE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 24.80 | R |

* DESCRIPTION OF BRAND CODES:

ISC = ISOCAST R

NHB = THERMAX BASIC NH

NHH = THERMAX HDUTY HD NH

NHL = THERMAX LDUTY LD NH

NHM = THERMAX MTL BLDG NH

NHW = THERMAX WHITE FACE NH

STR = SUPER TUFF-R

TFR = TUFF-R

TXH = THERMAX HEAVY DUTY

TXL = THERMAX LIGHT DUTY

TXM = THERMAX METAL BLDG

TXS = THERMAX SHEATH

TXW = THERMAX WHITE FACE

| Holcim Solutions and Products US, LLC - T 1545 | | | | | | Updated 09/12/2022 | | | | |
|--|-------------------------|--------------|-----------------------|---------|-----------|--------------------|----|--------|-------|---|
| CGT | ISOGARD CG (TAPERED) AA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **0.75 | 4.30 | R |
| CGT | ISOGARD CG (TAPERED) A | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.25 | 7.10 | R |
| CGT | ISOGARD GD (TAPERED) B | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.75 | 10.00 | R |
| CGT | ISOGARD CG (TAPERED) C | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.25 | 12.90 | R |
| CGT | ISOGARD CG (TAPERED) G | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| CGT | ISOGARD CG (TAPERED) H | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.50 | 14.40 | R |
| CGT | ISOGARD CG (TAPERED) Q | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| CGT | ISOGARD CG (TAPERED) X | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.00 | 5.70 | R |
| CGT | ISOGARD CG (TAPERED) Y | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.00 | 11.40 | R |
| FBT | ISO 95+ GL (TAPERED) AA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **0.75 | 4.30 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------------|--------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| FBT | ISO 95+ GL (TAPERED) A | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.25 | 7.10 | R |
| FBT | ISO 95+ GL (TAPERED) B | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.75 | 10.00 | R |
| FBT | ISO 95+ GL (TAPERED) C | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.25 | 12.90 | R |
| FBT | ISO 95+ GL (TAPERED) G | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| FBT | ISO 95+ GL (TAPERED) H | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.50 | 14.40 | R |
| FBT | ISO 95+ GL (TAPERED) Q | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| FBT | ISO 95+ GL (TAPERED) X | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.00 | 5.70 | R |
| FBT | ISO 95+ GL (TAPERED) Y | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.00 | 11.40 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| FCG | ISOGARD CG | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| FGL | ISOGARD GL (TAPERED) AA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **0.75 | 4.30 | R |
| FGL | ISOGARD GL (TAPERED) A | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.25 | 7.10 | R |
| FGL | ISOGARD GL (TAPERED) B | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.75 | 10.00 | R |
| FGL | ISOGARD GL (TAPERED) C | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.25 | 12.90 | R |
| FGL | ISOGARD GL (TAPERED) G | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| FGL | ISOGARD GL (TAPERED) H | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.50 | 14.40 | R |
| FGL | ISOGARD GL (TAPERED) Q | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| FGL | ISOGARD GL (TAPERED) X | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.00 | 5.70 | R |
| FGL | ISOGARD GL (TAPERED) Y | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.00 | 11.40 | R |
| FHG | HAILGARD | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.00 | 9.60 | R |
| FHG | HAILGARD | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.50 | 12.70 | R |
| FHG | HAILGARD | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.00 | 15.90 | R |
| FHG | HAILGARD | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.50 | 19.10 | R |
| FHG | HAILGARD | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 4.00 | 22.30 | R |
| FRC | ISOGARD HD COMPOSITE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 1.50 | 8.20 | R |
| FRC | ISOGARD HD COMPOSITE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.00 | 11.10 | R |
| FRC | ISOGARD HD COMPOSITE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.50 | 13.90 | R |
| FRC | ISOGARD HD COMPOSITE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.00 | 16.90 | R |
| FRC | ISOGARD HD COMPOSITE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.50 | 19.90 | R |
| FRC | ISOGARD HD COMPOSITE | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 4.00 | 23.00 | R |
| FRH | ISOGARD HD | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.80 | 22.30 | R |
| FRI | ISO 95+ GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 0.50 | 2.90 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.50 | 8.60 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------------|--------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| FRR | RESISTA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| FRT | RESISTA (TAPERED) AA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **0.75 | 4.30 | R |
| FRT | RESISTA (TAPERED) A | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.25 | 7.10 | R |
| FRT | RESISTA (TAPERED) B | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.75 | 10.00 | R |
| FRT | RESISTA (TAPERED) C | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.25 | 12.90 | R |
| FRT | RESISTA (TAPERED) G | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| FRT | RESISTA (TAPERED) H | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.50 | 14.40 | R |
| FRT | RESISTA (TAPERED) Q | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| FRT | RESISTA (TAPERED) X | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.00 | 5.70 | R |
| FRT | RESISTA (TAPERED) Y | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.00 | 11.40 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| GCG | GENFLEX CG ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| GGL | GENFLEX GL ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| GHC | GENFLEX HD COMPOSITE ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 1.50 | 8.20 | R |
| GHC | GENFLEX HD COMPOSITE ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.00 | 11.10 | R |
| GHC | GENFLEX HD COMPOSITE ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.50 | 13.90 | R |
| GHC | GENFLEX HD COMPOSITE ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.00 | 16.90 | R |
| GHC | GENFLEX HD COMPOSITE ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.50 | 19.90 | R |
| GHC | GENFLEX HD COMPOSITE ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 4.00 | 23.00 | R |
| GLT | TAPERED GENFLEX GL ISO AA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **0.75 | 4.30 | R |
| GLT | TAPERED GENFLEX GL ISO A | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.25 | 7.10 | R |
| GLT | TAPERED GENFLEX GL ISO B | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.75 | 10.00 | R |
| GLT | TAPERED GENFLEX GL ISO C | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.25 | 12.90 | R |
| GLT | TAPERED GENFLEX GL ISO G | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| GLT | TAPERED GENFLEX GL ISO H | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.50 | 14.40 | R |
| GLT | TAPERED GENFLEX GL ISO Q | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| GLT | TAPERED GENFLEX GL ISO X | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.00 | 5.70 | R |
| GLT | TAPERED GENFLEX GL ISO Y | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.00 | 11.40 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------------------|--------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| GNB | GENFLEX HG ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 1.50 | 6.30 | R |
| GNB | GENFLEX HG ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.00 | 9.20 | R |
| GNB | GENFLEX HG ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.50 | 12.00 | R |
| GNB | GENFLEX HG ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.00 | 15.00 | R |
| GNB | GENFLEX HG ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.50 | 18.00 | R |
| GNB | GENFLEX HG ISO | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 4.00 | 21.10 | R |
| GTC | COATED GLASS FACER (TAPERED) AA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **0.75 | 4.30 | R |
| GTC | COATED GLASS FACER (TAPERED) A | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.25 | 7.10 | R |
| GTC | COATED GLASS FACER (TAPERED) B | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.75 | 10.00 | R |
| GTC | COATED GLASS FACER (TAPERED) C | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.25 | 12.90 | R |
| GTC | COATED GLASS FACER (TAPERED) G | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| GTC | COATED GLASS FACER (TAPERED) H | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.50 | 14.40 | R |
| GTC | COATED GLASS FACER (TAPERED) Q | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| GTC | COATED GLASS FACER (TAPERED) X | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.00 | 5.70 | R |
| GTC | COATED GLASS FACER (TAPERED) Y | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.00 | 11.40 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| GXC | COATED GLASS FACER (FLAT) | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| GXH | GENFLEX HD ISO | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| GXI | GENFLEX ISO INSULATION | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| GXT | TAPERED GENFLEX ISO AA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **0.75 | 4.30 | R |
| GXT | TAPERED GENFLEX ISO A | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.25 | 7.10 | R |
| GXT | TAPERED GENFLEX ISO B | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.75 | 10.00 | R |
| GXT | TAPERED GENFLEX ISO C | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.25 | 12.90 | R |
| GXT | TAPERED GENFLEX ISO G | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| GXT | TAPERED GENFLEX ISO H | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.50 | 14.40 | R |
| GXT | TAPERED GENFLEX ISO Q | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| GXT | TAPERED GENFLEX ISO X | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.00 | 5.70 | R |
| GXT | TAPERED GENFLEX ISO Y | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.00 | 11.40 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.00 | 17.40 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-----------------------------|--------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 3.80 | 22.30 | R |
| IGL | ISOGARD GL | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| IHG | ISOGARD HG | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 1.50 | 6.30 | R |
| IHG | ISOGARD HG | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.00 | 9.20 | R |
| IHG | ISOGARD HG | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 2.50 | 12.00 | R |
| IHG | ISOGARD HG | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.00 | 15.00 | R |
| IHG | ISOGARD HG | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 3.50 | 18.00 | R |
| IHG | ISOGARD HG | ISOCYANURATE | COMPOSITE | BOARD | ROOF DECK | NO | NO | 4.00 | 21.10 | R |
| TCG | GENFLEX CG ISO (TAPERED) AA | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **0.75 | 4.30 | R |
| TCG | GENFLEX CG ISO (TAPERED) A | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.25 | 7.10 | R |
| TCG | GENFLEX CG ISO (TAPERED) B | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.75 | 10.00 | R |
| TCG | GENFLEX CG ISO (TAPERED) C | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.25 | 12.90 | R |
| TCG | GENFLEX CG ISO (TAPERED) G | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| TCG | GENFLEX CG ISO (TAPERED) H | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.50 | 14.40 | R |
| TCG | GENFLEX CG ISO (TAPERED) Q | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.50 | 8.60 | R |
| TCG | GENFLEX CG ISO (TAPERED) X | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **1.00 | 5.70 | R |
| TCG | GENFLEX CG ISO (TAPERED) Y | ISOCYANURATE | FACED SINGLE MATERIAL | GLS FBR | ROOF DECK | NO | NO | **2.00 | 11.40 | R |

**Average Thickness

* DESCRIPTION OF BRAND CODES:

CGT = ISOGARD CG ISO (TAPERED)
 FBT = ISO 95+ GL (TAPERED)
 FCG = ISOGARD CG
 FGL = ISOGARD GL (TAPERED)
 FHG = HAILGARD
 FRC = ISOGARD HD COMPOSITE

FRH = ISOGARD HD
 FRI = ISO 95+ GL
 FRR = RESISTA
 FRT = RESISTA (TAPERED)
 GCG = GENFLEX CG ISO
 GGL = GENFLEX GL ISO

GHC = GENFLEX HD COMPOSITE ISO
 GLT = GENFLEX GL ISO (TAPERED)
 GNB = GENFLEX NB ISO
 GTC = COATED GLASS FACER (TAPERED)
 GXC = COATED GLASS FACER (FLAT)
 GXH = GENFLEX HD ISO

GXI = GENFLEX ISO
 GXT = TAPERED GENFLEX ISO
 IGL = ISOGARD GL
 IHG = ISOGARD HG
 TCG = GENFLEX CG ISO (TAPERED)

| GAF Materials Corp - T 1454 | | | | | Updated 09/25/2020 | | | | | |
|-----------------------------|------|--------------|-----------------------|-------|--------------------|----|----|------|-------|---|
| EG | 4710 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| EG | 4715 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| EG | 4716 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| EG | 4717 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.70 | 9.70 | R |
| EG | 4718 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| EG | 4719 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.90 | 10.80 | R |
| EG | 4720 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| EG | 4721 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| EG | 4722 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.20 | 12.60 | R |
| EG | 4723 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| EG | 4724 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.40 | 13.80 | R |
| EG | 4725 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| EG | 4726 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| EG | 4727 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| EG | 4728 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| EG | 4729 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.90 | 16.80 | R |
| EG | 4730 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| EG | 4731 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.10 | 18.00 | R |
| EG | 4733 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| EG | 4734 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.40 | 19.90 | R |
| EG | 4735 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| EG | 4738 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.80 | 22.30 | R |
| EG | 4739 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.90 | 23.00 | R |
| EG | 4740 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| EG | 4741 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.10 | 24.20 | R |
| EG | 4742 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.20 | 24.80 | R |
| EG | 47A0 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------|--------------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| EG | 47A5 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| EG | 47B0 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| EG | 47B1 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| EG | 47B2 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.20 | 12.60 | R |
| EG | 47B5 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| EG | 47B6 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| EG | 47C0 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| EG | 47C3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| EG | 47C5 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| EG | 47D0 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| EG | 47D5 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| EG | 47D6 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| EG | 47D8 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| EG | 47D45 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.50 | 26.60 | R |
| EGH | 47H1 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| EGH | 47H2 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| EGP | 47H3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| EGP | 47H4 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| EGU | 4A00 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| EGU | 4A05 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| EGU | 4A10 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| EGU | 4A16 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| EGU | 4A20 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| EGU | 4A23 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| EGU | 4A30 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| EGU | 4A33 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| EGU | 4A42 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |

* DESCRIPTION OF BRAND CODES:

EG = ENERGYGUARD

EGH = ENERGYGUARD HD

EGP = ENERGYGUARD HD PLUS

EGU = ENERGYGUARD ULTRA

| Hunter Panels - T 1420 | | | | | | Updated 09/30/2024 | | | | |
|------------------------|-----------------------|--------------|-----------------------|-------------------|-----------|--------------------|----|------|---------|---|
| HCG | H-SHIELD CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| HCG | H-SHIELD CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| HCG | H-SHIELD CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| HCG | H-SHIELD CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| HCG | H-SHIELD CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| HCG | H-SHIELD CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| HCG | PW-CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| HCG | PW-CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| HCG | PW-CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| HCG | PW-CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| HCG | PW-CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| HCG | PW-CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| HFF | H-SHIELD F | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 1.00 | 6.5 ** | R |
| HFF | H-SHIELD F | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 1.50 | 10.0 ** | R |
| HFF | H-SHIELD F | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 2.00 | 13.3 ** | R |
| HFF | H-SHIELD F | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 3.00 | 20.3 ** | R |
| HFF | H-SHIELD F | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 4.00 | 27.0 ** | R |
| HHC | H-SHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 2.50 | 13.90 | R |
| HHC | H-SHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 3.00 | 16.90 | R |
| HHD | H-SHIELD HD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| HNB | H-SHIELD NB | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 1.50 | 6.20 | R |
| HNB | H-SHIELD NB | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 2.00 | 9.20 | R |
| HNB | H-SHIELD NB | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 3.00 | 15.00 | R |
| HNB | H-SHIELD NB | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 4.00 | 21.10 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------|--------------|-----------------------|---------------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| HSD | H-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| HSD | H-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| HSD | H-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| HSD | H-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| HSD | H-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| HSD | H-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| HSD | H-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| HSD | H-SHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| HSP | H-SHIELD PREMIER | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| HWF | H-SHIELD WF | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 1.50 | 7.00 | R |
| HWF | H-SHIELD WF | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 2.00 | 10.00 | R |
| HWF | H-SHIELD WF | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 2.50 | 12.80 | R |
| HWF | H-SHIELD WF | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 3.00 | 15.80 | R |
| HWF | H-SHIELD WF | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 3.50 | 18.80 | R |
| HWF | H-SHIELD WF | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 4.00 | 21.90 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 0.50 | 3.00 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 0.75 | 4.50 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 1.00 | 6.00 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 1.50 | 9.00 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 2.00 | 12.10 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 2.50 | 15.30 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 3.00 | 18.50 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 3.30 | 20.40 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 3.50 | 21.70 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 4.00 | 24.90 | R |
| XCC | XCI CG | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | WALL | NO | YES | 4.50 | 28.10 | R |
| XCA | XCI CLASS A | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.00 | 6.30 | R |
| XCA | XCI CLASS A | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.50 | 9.50 | R |
| XCA | XCI CLASS A | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 2.00 | 13.00 | R |
| XCA | XCI CLASS A | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 2.50 | 16.00 | R |
| XCA | XCI CLASS A | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 3.00 | 19.00 | R |
| XCA | XCI CLASS A | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 3.50 | 22.00 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 0.50 | 3.00 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 0.75 | 4.50 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 1.00 | 6.00 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 1.50 | 9.00 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 2.00 | 12.10 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 2.50 | 15.30 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 2.70 | 16.60 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 3.00 | 18.50 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 3.50 | 21.70 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 4.00 | 24.90 | R |
| XCF | XCI FOIL | ISOCYANURATE | FACED SINGLE MATERIAL | ALUMINUM FOIL KRAFT | WALL | NO | YES | 4.50 | 28.10 | R |
| XAP | XCI CLASS A PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.00 | 6.60 | R |
| XAP | XCI CLASS A PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.50 | 9.70 | R |
| XAP | XCI CLASS A PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 2.00 | 13.00 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.00 | 6.30 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.20 | 7.60 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.50 | 9.50 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.60 | 10.10 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 2.00 | 13.00 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 2.10 | 13.50 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 2.50 | 16.00 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 3.00 | 19.00 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 3.10 | 19.50 | R |
| XCI | XCI 286 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 3.50 | 22.00 | R |
| XCN | XCI NB | ISOCYANURATE | COMPOSITE | WAFFERBOARD | WALL | NO | NO | 1.50 | 6.60 | R |
| XCN | XCI NB | ISOCYANURATE | COMPOSITE | WAFFERBOARD | WALL | NO | NO | 2.00 | 9.60 | R |
| XCN | XCI NB | ISOCYANURATE | COMPOSITE | WAFFERBOARD | WALL | NO | NO | 2.10 | 10.20 | R |
| XCN | XCI NB | ISOCYANURATE | COMPOSITE | WAFFERBOARD | WALL | NO | NO | 2.50 | 12.70 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------|--------------|-----------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| XCN | XCI NB | ISOCYANURATE | COMPOSITE | WAFERBOARD | WALL | NO | NO | 3.00 | 15.90 | R |
| XCN | XCI NB | ISOCYANURATE | COMPOSITE | WAFERBOARD | WALL | NO | NO | 3.50 | 19.10 | R |
| XCN | XCI NB | ISOCYANURATE | COMPOSITE | WAFERBOARD | WALL | NO | NO | 4.50 | 25.60 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 1.60 | 6.60 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 1.70 | 7.20 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 2.10 | 9.60 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 2.20 | 10.20 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 2.60 | 12.70 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 2.70 | 13.30 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 3.10 | 15.90 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 3.20 | 16.40 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 3.60 | 18.50 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 3.70 | 19.10 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 3.80 | 19.60 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 4.10 | 21.10 | R |
| XCP | XCI PLY | ISOCYANURATE | COMPOSITE | PLYWOOD | WALL | NO | NO | 4.70 | 24.10 | R |

**= Initial R-Values

* DESCRIPTION OF BRAND CODES:

| | | | | |
|-----------------------------|-------------------|------------------------|-------------------|---------------|
| HCG = H-SHIELD-CG | HHD=H-SHIELD HD | HSP = H-SHIELD PREMIER | XCA = XCI CLASS A | XCI = XCI 286 |
| HFF = H-SHIELD-F | HNB = H-SHIELD-NB | HWF = H-SHIELD-WF | XCC = XCI CG | XCP = XCI PLY |
| HHC = H-SHIELD HD COMPOSITE | HSD = H-SHIELD | XAP = XCI CLASS A PLUS | XCF = XCI FOIL | XCN = XCI NB |

| Johns Manville - T 1341 | | | | | | Updated 11/10/2022 | | | | |
|-------------------------|----------------------|--------------|-----------------------|------------|-----------|--------------------|-----|------|-------|---|
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 0.50 | 2.90 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 0.62 | 3.50 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 0.75 | 5.00 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 1.00 | 6.00 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 1.20 | 7.50 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 1.50 | 9.30 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 1.55 | 9.60 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 1.65 | 10.00 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.00 | 13.00 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.50 | 16.00 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.00 | 19.00 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.50 | 22.00 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.00 | 26.00 | R |
| JM | AP FOIL-FACED SHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.50 | 28.00 | R |
| JM | CIMAX 0.5 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 0.50 | 2.90 | R |
| JM | CIMAX 0.77 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 0.77 | 4.50 | R |
| JM | CIMAX 0.85 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 0.85 | 5.00 | R |
| JM | CIMAX 1 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.00 | 6.00 | R |
| JM | CIMAX 1.50 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.50 | 9.30 | R |
| JM | CIMAX 1.55 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.55 | 9.60 | R |
| JM | CIMAX 1.65 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 1.65 | 10.00 | R |
| JM | CIMAX 2 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 2.00 | 13.00 | R |
| JM | CIMAX 2.5 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 2.50 | 16.00 | R |
| JM | CIMAX 3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 3.00 | 19.00 | R |
| JM | CIMAX 3.5 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 3.50 | 22.00 | R |
| JM | CIMAX 4 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | YES | YES | 4.00 | 26.00 | R |
| JM | ENRGY 3@ 0.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.50 | 3.00 | R |
| JM | ENRGY 3@ 0.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75 | 4.50 | R |
| JM | ENRGY 3@ 1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| JM | ENRGY 3@ 1.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.10 | 6.30 | R |
| JM | ENRGY 3@ 1.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.20 | 6.80 | R |
| JM | ENRGY 3@ 1.25" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| JM | ENRGY 3@ 1.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.30 | 7.40 | R |
| JM | ENRGY 3@ 1.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.40 | 8.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------|--------------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | ENRGY 3® 1.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| JM | ENRGY 3® 1.6" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| JM | ENRGY 3® 1.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.70 | 9.70 | R |
| JM | ENRGY 3® 1.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| JM | ENRGY 3® 1.8" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| JM | ENRGY 3® 1.9" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.90 | 10.80 | R |
| JM | ENRGY 3® 2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| JM | ENRGY 3® 2.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| JM | ENRGY 3® 2.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.20 | 12.60 | R |
| JM | ENRGY 3® 2.25" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| JM | ENRGY 3® 2.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| JM | ENRGY 3® 2.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.40 | 13.80 | R |
| JM | ENRGY 3® 2.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| JM | ENRGY 3® 2.6" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| JM | ENRGY 3® 2.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| JM | ENRGY 3® 2.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75 | 15.90 | R |
| JM | ENRGY 3® 2.8" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| JM | ENRGY 3® 2.9" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.90 | 16.80 | R |
| JM | ENRGY 3® 3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| JM | ENRGY 3® 3.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.10 | 18.00 | R |
| JM | ENRGY 3® 3.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.20 | 18.60 | R |
| JM | ENRGY 3® 3.25" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| JM | ENRGY 3® 3.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| JM | ENRGY 3® 3.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.40 | 19.90 | R |
| JM | ENRGY 3® 3.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| JM | ENRGY 3® 3.6" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.60 | 21.10 | R |
| JM | ENRGY 3® 3.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.70 | 21.70 | R |
| JM | ENRGY 3® 3.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| JM | ENRGY 3® 3.8" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.80 | 22.30 | R |
| JM | ENRGY 3® 3.9" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.90 | 23.00 | R |
| JM | ENRGY 3® 4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| JM | ENRGY 3® 4.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.10 | 24.20 | R |
| JM | ENRGY 3® 4.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.20 | 24.90 | R |
| JM | ENRGY 3® 4.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.30 | 25.50 | R |
| JM | ENRGY 3® 4.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.40 | 26.10 | R |
| JM | ENRGY 3® 4.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| JM | Tapered ENRGY 3® 1A | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 3.60 | R |
| JM | Tapered ENRGY 3® 1B | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75** | 5.00 | R |
| JM | Tapered ENRGY 3® 01 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 6.40 | R |
| JM | Tapered ENRGY 3® 02 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 7.80 | R |
| JM | Tapered ENRGY 3® 03 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 9.30 | R |
| JM | Tapered ENRGY 3® 04 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 10.70 | R |
| JM | Tapered ENRGY 3® 05 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 12.10 | R |
| JM | Tapered ENRGY 3® 06 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25** | 13.60 | R |
| JM | Tapered ENRGY 3® AA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 4.30 | R |
| JM | Tapered ENRGY 3® A | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 7.10 | R |
| JM | Tapered ENRGY 3® B | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 10.00 | R |
| JM | Tapered ENRGY 3® C | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 12.90 | R |
| JM | Tapered ENRGY 3® D | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 15.90 | R |
| JM | Tapered ENRGY 3® E | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3** | 18.90 | R |
| JM | Tapered ENRGY 3® F | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.5** | 22.10 | R |
| JM | Tapered ENRGY 3® G | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 8.60 | R |
| JM | Tapered ENRGY 3® H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 14.40 | R |
| JM | Tapered ENRGY 3® J | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 7.80 | R |
| JM | Tapered ENRGY 3® K | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 12.10 | R |
| JM | Tapered ENRGY 3® L | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 16.60 | R |
| JM | Tapered ENRGY 3® M | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25** | 21.20 | R |
| JM | Tapered ENRGY 3® I | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3** | 20.50 | R |
| JM | Tapered ENRGY 3® X | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 5.70 | R |
| JM | Tapered ENRGY 3® Y | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 11.40 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|----------------------|--------------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | Tapered ENRGY 3® Z | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 17.40 | R |
| JM | Tapered ENRGY 3® ZZ | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.5** | 23.60 | R |
| JM | Tapered ENRGY 3® SS | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 7.10 | R |
| JM | Tapered ENRGY 3® TT | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 15.90 | R |
| JM | Tapered ENRGY 3® Q | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 8.60 | R |
| JM | Tapered ENRGY 3® QQ | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 20.50 | R |
| JM | Tapered ENRGY 3® R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75** | 5.70 | R |
| JM | Tapered ENRGY 3® S | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 8.60 | R |
| JM | Tapered ENRGY 3® T | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 11.40 | R |
| JM | Tapered ENRGY 3® U | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25** | 14.40 | R |
| JM | Tapered ENRGY 3® V | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75** | 17.40 | R |
| JM | Tapered ENRGY 3® W | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25** | 20.50 | R |
| JM | Tapered ENRGY 3® XX | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 11.40 | R |
| JM | Tapered ENRGY 3® KK | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 9.30 | R |
| JM | Tapered ENRGY 3® JJ | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 5.00 | R |
| JM | Tapered ENRGY 3® FF | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4** | 25.30 | R |
| JM | Tapered ENRGY 3® LL | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 13.60 | R |
| JM | Tapered ENRGY 3® MM | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75** | 18.20 | R |
| JM | ENRGY 3® 0.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.50 | 3.00 | R |
| JM | ENRGY 3® 0.75" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75 | 4.50 | R |
| JM | ENRGY 3® 1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| JM | ENRGY 3® 1.1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.10 | 6.30 | R |
| JM | ENRGY 3® 1.2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.20 | 6.80 | R |
| JM | ENRGY 3® 1.25" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| JM | ENRGY 3® 1.3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.30 | 7.40 | R |
| JM | ENRGY 3® 1.4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.40 | 8.00 | R |
| JM | ENRGY 3® 1.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| JM | ENRGY 3® 1.6" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| JM | ENRGY 3® 1.7" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.70 | 9.70 | R |
| JM | ENRGY 3® 1.75" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| JM | ENRGY 3® 1.8" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| JM | ENRGY 3® 1.9" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.90 | 10.80 | R |
| JM | ENRGY 3® 2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| JM | ENRGY 3® 2.1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| JM | ENRGY 3® 2.2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.20 | 12.60 | R |
| JM | ENRGY 3® 2.25" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| JM | ENRGY 3® 2.3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| JM | ENRGY 3® 2.4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.40 | 13.80 | R |
| JM | ENRGY 3® 2.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| JM | ENRGY 3® 2.6" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| JM | ENRGY 3® 2.7" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| JM | ENRGY 3® 2.75" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75 | 15.90 | R |
| JM | ENRGY 3® 2.8" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| JM | ENRGY 3® 2.9" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.90 | 16.80 | R |
| JM | ENRGY 3® 3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| JM | ENRGY 3® 3.1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.10 | 18.00 | R |
| JM | ENRGY 3® 3.2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.20 | 18.60 | R |
| JM | ENRGY 3® 3.25" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| JM | ENRGY 3® 3.3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| JM | ENRGY 3® 3.4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.40 | 19.90 | R |
| JM | ENRGY 3® 3.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| JM | ENRGY 3® 3.6" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.60 | 21.10 | R |
| JM | ENRGY 3® 3.7" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.70 | 21.70 | R |
| JM | ENRGY 3® 3.75" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| JM | ENRGY 3® 3.8" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.80 | 22.30 | R |
| JM | ENRGY 3® 3.9" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.90 | 23.00 | R |
| JM | ENRGY 3® 4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| JM | ENRGY 3® 4.1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.10 | 24.20 | R |
| JM | ENRGY 3® 4.2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.20 | 24.90 | R |
| JM | ENRGY 3® 4.3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.30 | 25.50 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------------|--------------|-----------------------|-------------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | ENRGY 3® 4.4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.40 | 26.10 | R |
| JM | ENRGY 3® 4.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| JM | Tapered ENRGY 3® 1A 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 3.60 | R |
| JM | Tapered ENRGY 3® 1B 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75** | 5.00 | R |
| JM | Tapered ENRGY 3® 01 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 6.40 | R |
| JM | Tapered ENRGY 3® 02 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 7.80 | R |
| JM | Tapered ENRGY 3® 03 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 9.30 | R |
| JM | Tapered ENRGY 3® 04 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 10.70 | R |
| JM | Tapered ENRGY 3® 05 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 12.10 | R |
| JM | Tapered ENRGY 3® 06 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25** | 13.60 | R |
| JM | Tapered ENRGY 3® AA 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 4.30 | R |
| JM | Tapered ENRGY 3® A 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 7.10 | R |
| JM | Tapered ENRGY 3® B 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 10.00 | R |
| JM | Tapered ENRGY 3® C 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 12.90 | R |
| JM | Tapered ENRGY 3® D 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 15.90 | R |
| JM | Tapered ENRGY 3® E 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3** | 18.90 | R |
| JM | Tapered ENRGY 3® F 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.5** | 22.10 | R |
| JM | Tapered ENRGY 3® G 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 8.60 | R |
| JM | Tapered ENRGY 3® H 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 14.40 | R |
| JM | Tapered ENRGY 3® J 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 7.80 | R |
| JM | Tapered ENRGY 3® K 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 12.10 | R |
| JM | Tapered ENRGY 3® L 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 16.60 | R |
| JM | Tapered ENRGY 3® M 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25** | 21.20 | R |
| JM | Tapered ENRGY 3® I 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3** | 20.50 | R |
| JM | Tapered ENRGY 3® X 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 5.70 | R |
| JM | Tapered ENRGY 3® Y 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 11.40 | R |
| JM | Tapered ENRGY 3® Z 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 17.40 | R |
| JM | Tapered ENRGY 3® ZZ 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.5** | 23.60 | R |
| JM | Tapered ENRGY 3® SS 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 7.10 | R |
| JM | Tapered ENRGY 3® TT 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 15.90 | R |
| JM | Tapered ENRGY 3® Q 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 8.60 | R |
| JM | Tapered ENRGY 3® QQ 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 20.50 | R |
| JM | Tapered ENRGY 3® R 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75** | 5.70 | R |
| JM | Tapered ENRGY 3® S 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 8.60 | R |
| JM | Tapered ENRGY 3® T 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 11.40 | R |
| JM | Tapered ENRGY 3® U 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25** | 14.40 | R |
| JM | Tapered ENRGY 3® V 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75** | 17.40 | R |
| JM | Tapered ENRGY 3® W 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25** | 20.50 | R |
| JM | Tapered ENRGY 3® XX 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 11.40 | R |
| JM | Tapered ENRGY 3® KK 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 9.30 | R |
| JM | Tapered ENRGY 3® JJ 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 5.00 | R |
| JM | Tapered ENRGY 3® FF 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4** | 25.30 | R |
| JM | Tapered ENRGY 3® LL 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 13.60 | R |
| JM | Tapered ENRGY 3® MM 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75** | 18.20 | R |
| JM | ENRGY 3® CGF 0.5" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.50 | 3.00 | R |
| JM | ENRGY 3® CGF 0.75" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.75 | 4.50 | R |
| JM | ENRGY 3® CGF 1" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| JM | ENRGY 3® CGF 1.1" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.10 | 6.30 | R |
| JM | ENRGY 3® CGF 1.2" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.20 | 6.80 | R |
| JM | ENRGY 3® CGF 1.25" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| JM | ENRGY 3® CGF 1.3" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.30 | 7.40 | R |
| JM | ENRGY 3® CGF 1.4" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.40 | 8.00 | R |
| JM | ENRGY 3® CGF 1.5" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| JM | ENRGY 3® CGF 1.6" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| JM | ENRGY 3® CGF 1.7" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.70 | 9.70 | R |
| JM | ENRGY 3® CGF 1.75" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| JM | ENRGY 3® CGF 1.8" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| JM | ENRGY 3® CGF 1.9" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.90 | 10.80 | R |
| JM | ENRGY 3® CGF 2" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| JM | ENRGY 3® CGF 2.1" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.10 | 12.00 | R |

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| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------------|--------------|-----------------------|-------------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | ENRGY 3® CGF 2.2" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.20 | 12.60 | R |
| JM | ENRGY 3® CGF 2.25" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| JM | ENRGY 3® CGF 2.3" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| JM | ENRGY 3® CGF 2.4" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.40 | 13.80 | R |
| JM | ENRGY 3® CGF 2.5" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| JM | ENRGY 3® CGF 2.6" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| JM | ENRGY 3® CGF 2.7" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| JM | ENRGY 3® CGF 2.75" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.75 | 15.90 | R |
| JM | ENRGY 3® CGF 2.8" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| JM | ENRGY 3® CGF 2.9" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.90 | 16.80 | R |
| JM | ENRGY 3® CGF 3" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| JM | ENRGY 3® CGF 3.1" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.10 | 18.00 | R |
| JM | ENRGY 3® CGF 3.2" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.20 | 18.60 | R |
| JM | ENRGY 3® CGF 3.25" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| JM | ENRGY 3® CGF 3.3" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| JM | ENRGY 3® CGF 3.4" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.40 | 19.90 | R |
| JM | ENRGY 3® CGF 3.5" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| JM | ENRGY 3® CGF 3.6" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.60 | 21.10 | R |
| JM | ENRGY 3® CGF 3.7" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.70 | 21.70 | R |
| JM | ENRGY 3® CGF 3.75" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| JM | ENRGY 3® CGF 3.8" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.80 | 22.30 | R |
| JM | ENRGY 3® CGF 3.9" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.90 | 23.00 | R |
| JM | ENRGY 3® CGF 4" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| JM | ENRGY 3® CGF 4.1" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.10 | 24.20 | R |
| JM | ENRGY 3® CGF 4.2" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.20 | 24.90 | R |
| JM | ENRGY 3® CGF 4.3" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.30 | 25.50 | R |
| JM | ENRGY 3® CGF 4.4" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.40 | 26.10 | R |
| JM | ENRGY 3® CGF 4.5" | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| JM | Tapered ENRGY 3® CGF 1A | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 3.60 | R |
| JM | Tapered ENRGY 3® CGF 1B | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.75** | 5.00 | R |
| JM | Tapered ENRGY 3® CGF 01 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 6.40 | R |
| JM | Tapered ENRGY 3® CGF 02 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.25** | 7.80 | R |
| JM | Tapered ENRGY 3® CGF 03 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.5** | 9.30 | R |
| JM | Tapered ENRGY 3® CGF 04 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.75** | 10.70 | R |
| JM | Tapered ENRGY 3® CGF 05 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 12.10 | R |
| JM | Tapered ENRGY 3® CGF 06 | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.25** | 13.60 | R |
| JM | Tapered ENRGY 3® CGF AA | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 4.30 | R |
| JM | Tapered ENRGY 3® CGF A | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 7.10 | R |
| JM | Tapered ENRGY 3® CGF B | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.5** | 10.00 | R |
| JM | Tapered ENRGY 3® CGF C | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 12.90 | R |
| JM | Tapered ENRGY 3® CGF D | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.5** | 15.90 | R |
| JM | Tapered ENRGY 3® CGF E | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3** | 18.90 | R |
| JM | Tapered ENRGY 3® CGF F | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.5** | 22.10 | R |
| JM | Tapered ENRGY 3® CGF G | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 8.60 | R |
| JM | Tapered ENRGY 3® CGF H | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 14.40 | R |
| JM | Tapered ENRGY 3® CGF J | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 7.80 | R |
| JM | Tapered ENRGY 3® CGF K | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.75** | 12.10 | R |
| JM | Tapered ENRGY 3® CGF L | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.5** | 16.60 | R |
| JM | Tapered ENRGY 3® CGF M | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.25** | 21.20 | R |
| JM | Tapered ENRGY 3® CGF I | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3** | 20.50 | R |
| JM | Tapered ENRGY 3® CGF X | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 5.70 | R |
| JM | Tapered ENRGY 3® CGF Y | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.5** | 11.40 | R |
| JM | Tapered ENRGY 3® CGF Z | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.5** | 17.40 | R |
| JM | Tapered ENRGY 3® CGF ZZ | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.5** | 23.60 | R |
| JM | Tapered ENRGY 3® CGF SS | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 7.10 | R |
| JM | Tapered ENRGY 3® CGF TT | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 15.90 | R |
| JM | Tapered ENRGY 3® CGF Q | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 8.60 | R |
| JM | Tapered ENRGY 3® CGF QQ | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.5** | 20.50 | R |
| JM | Tapered ENRGY 3® CGF R | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.75** | 5.70 | R |
| JM | Tapered ENRGY 3® CGF S | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.25** | 8.60 | R |

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|-------------|-------------------------------|--------------|-----------------------|-------------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | Tapered ENRGY 3® CGF T | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.75** | 11.40 | R |
| JM | Tapered ENRGY 3® CGF U | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.25** | 14.40 | R |
| JM | Tapered ENRGY 3® CGF V | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.75** | 17.40 | R |
| JM | Tapered ENRGY 3® CGF W | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.25** | 20.50 | R |
| JM | Tapered ENRGY 3® CGF XX | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 11.40 | R |
| JM | Tapered ENRGY 3® CGF KK | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.25** | 9.30 | R |
| JM | Tapered ENRGY 3® CGF JJ | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 5.00 | R |
| JM | Tapered ENRGY 3® CGF FF | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4** | 25.30 | R |
| JM | Tapered ENRGY 3® CGF LL | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 13.60 | R |
| JM | Tapered ENRGY 3® CGF MM | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.75** | 18.20 | R |
| JM | ENRGY 3® CGF 0.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.50 | 3.00 | R |
| JM | ENRGY 3® CGF 0.75" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.75 | 4.50 | R |
| JM | ENRGY 3® CGF 1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| JM | ENRGY 3® CGF 1.1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.10 | 6.30 | R |
| JM | ENRGY 3® CGF 1.2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.20 | 6.80 | R |
| JM | ENRGY 3® CGF 1.25" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| JM | ENRGY 3® CGF 1.3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.30 | 7.40 | R |
| JM | ENRGY 3® CGF 1.4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.40 | 8.00 | R |
| JM | ENRGY 3® CGF 1.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| JM | ENRGY 3® CGF 1.6" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| JM | ENRGY 3® CGF 1.7" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.70 | 9.70 | R |
| JM | ENRGY 3® CGF 1.75" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| JM | ENRGY 3® CGF 1.8" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| JM | ENRGY 3® CGF 1.9" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.90 | 10.80 | R |
| JM | ENRGY 3® CGF 2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| JM | ENRGY 3® CGF 2.1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| JM | ENRGY 3® CGF 2.2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.20 | 12.60 | R |
| JM | ENRGY 3® CGF 2.25" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| JM | ENRGY 3® CGF 2.3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| JM | ENRGY 3® CGF 2.4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.40 | 13.80 | R |
| JM | ENRGY 3® CGF 2.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| JM | ENRGY 3® CGF 2.6" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| JM | ENRGY 3® CGF 2.7" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| JM | ENRGY 3® CGF 2.75" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.75 | 15.90 | R |
| JM | ENRGY 3® CGF 2.8" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| JM | ENRGY 3® CGF 2.9" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.90 | 16.80 | R |
| JM | ENRGY 3® CGF 3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| JM | ENRGY 3® CGF 3.1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.10 | 18.00 | R |
| JM | ENRGY 3® CGF 3.2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.20 | 18.60 | R |
| JM | ENRGY 3® CGF 3.25" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| JM | ENRGY 3® CGF 3.3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| JM | ENRGY 3® CGF 3.4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.40 | 19.90 | R |
| JM | ENRGY 3® CGF 3.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| JM | ENRGY 3® CGF 3.6" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.60 | 21.10 | R |
| JM | ENRGY 3® CGF 3.7" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.70 | 21.70 | R |
| JM | ENRGY 3® CGF 3.75" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| JM | ENRGY 3® CGF 3.8" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.80 | 22.30 | R |
| JM | ENRGY 3® CGF 3.9" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.90 | 23.00 | R |
| JM | ENRGY 3® CGF 4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| JM | ENRGY 3® CGF 4.1" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.10 | 24.20 | R |
| JM | ENRGY 3® CGF 4.2" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.20 | 24.90 | R |
| JM | ENRGY 3® CGF 4.3" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.30 | 25.50 | R |
| JM | ENRGY 3® CGF 4.4" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.40 | 26.10 | R |
| JM | ENRGY 3® CGF 4.5" 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| JM | Tapered ENRGY 3® CGF 1A 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 3.60 | R |
| JM | Tapered ENRGY 3® CGF 1B 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.75** | 5.00 | R |
| JM | Tapered ENRGY 3® CGF 01 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 6.40 | R |
| JM | Tapered ENRGY 3® CGF 02 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.25** | 7.80 | R |
| JM | Tapered ENRGY 3® CGF 03 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.5** | 9.30 | R |
| JM | Tapered ENRGY 3® CGF 04 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.75** | 10.70 | R |

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| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------------------|--------------|-----------------------|-------------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | Tapered ENRGY 3® CGF 05 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 12.10 | R |
| JM | Tapered ENRGY 3® CGF 06 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.25** | 13.60 | R |
| JM | Tapered ENRGY 3® CGF AA 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 4.30 | R |
| JM | Tapered ENRGY 3® CGF A 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 7.10 | R |
| JM | Tapered ENRGY 3® CGF B 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.5** | 10.00 | R |
| JM | Tapered ENRGY 3® CGF C 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 12.90 | R |
| JM | Tapered ENRGY 3® CGF D 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.5** | 15.90 | R |
| JM | Tapered ENRGY 3® CGF E 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3** | 18.90 | R |
| JM | Tapered ENRGY 3® CGF F 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.5** | 22.10 | R |
| JM | Tapered ENRGY 3® CGF G 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 8.60 | R |
| JM | Tapered ENRGY 3® CGF H 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 14.40 | R |
| JM | Tapered ENRGY 3® CGF J 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 7.80 | R |
| JM | Tapered ENRGY 3® CGF K 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.75** | 12.10 | R |
| JM | Tapered ENRGY 3® CGF L 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.5** | 16.60 | R |
| JM | Tapered ENRGY 3® CGF M 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.25** | 21.20 | R |
| JM | Tapered ENRGY 3® CGF I 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3** | 20.50 | R |
| JM | Tapered ENRGY 3® CGF X 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 5.70 | R |
| JM | Tapered ENRGY 3® CGF Y 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.5** | 11.40 | R |
| JM | Tapered ENRGY 3® CGF Z 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.5** | 17.40 | R |
| JM | Tapered ENRGY 3® CGF ZZ 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.5** | 23.60 | R |
| JM | Tapered ENRGY 3® CGF SS 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 7.10 | R |
| JM | Tapered ENRGY 3® CGF T 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 15.90 | R |
| JM | Tapered ENRGY 3® CGF Q 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 8.60 | R |
| JM | Tapered ENRGY 3® CGF QQ 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.5** | 20.50 | R |
| JM | Tapered ENRGY 3® CGF R 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.75** | 5.70 | R |
| JM | Tapered ENRGY 3® CGF S 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.25** | 8.60 | R |
| JM | Tapered ENRGY 3® CGF T 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.75** | 11.40 | R |
| JM | Tapered ENRGY 3® CGF U 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.25** | 14.40 | R |
| JM | Tapered ENRGY 3® CGF V 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.75** | 17.40 | R |
| JM | Tapered ENRGY 3® CGF W 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 3.25** | 20.50 | R |
| JM | Tapered ENRGY 3® CGF XX 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1** | 11.40 | R |
| JM | Tapered ENRGY 3® CGF KK 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 1.25** | 9.30 | R |
| JM | Tapered ENRGY 3® CGF JJ 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.5** | 5.00 | R |
| JM | Tapered ENRGY 3® CGF FF 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 4** | 25.30 | R |
| JM | Tapered ENRGY 3® CGF LL 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2** | 13.60 | R |
| JM | Tapered ENRGY 3® CGF MM 25PSI | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 2.75** | 18.20 | R |
| JM | ENRGY 3.E® 0.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.50 | 3.00 | R |
| JM | ENRGY 3.E® 0.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75 | 4.50 | R |
| JM | ENRGY 3.E® 1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| JM | ENRGY 3.E® 1.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.10 | 6.30 | R |
| JM | ENRGY 3.E® 1.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.20 | 6.80 | R |
| JM | ENRGY 3.E® 1.25" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| JM | ENRGY 3.E® 1.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.30 | 7.40 | R |
| JM | ENRGY 3.E® 1.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.40 | 8.00 | R |
| JM | ENRGY 3.E® 1.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| JM | ENRGY 3.E® 1.6" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| JM | ENRGY 3.E® 1.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.70 | 9.70 | R |
| JM | ENRGY 3.E® 1.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| JM | ENRGY 3.E® 1.8" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| JM | ENRGY 3.E® 1.9" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.90 | 10.80 | R |
| JM | ENRGY 3.E® 2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| JM | ENRGY 3.E® 2.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| JM | ENRGY 3.E® 2.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.20 | 12.60 | R |
| JM | ENRGY 3.E® 2.25" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| JM | ENRGY 3.E® 2.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| JM | ENRGY 3.E® 2.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.40 | 13.80 | R |
| JM | ENRGY 3.E® 2.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| JM | ENRGY 3.E® 2.6" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| JM | ENRGY 3.E® 2.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| JM | ENRGY 3.E® 2.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75 | 15.90 | R |

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| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-----------------------|--------------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | ENRGY 3.E@ 2.8" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| JM | ENRGY 3.E@ 2.9" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.90 | 16.80 | R |
| JM | ENRGY 3.E@ 3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| JM | ENRGY 3.E@ 3.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.10 | 18.00 | R |
| JM | ENRGY 3.E@ 3.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.20 | 18.60 | R |
| JM | ENRGY 3.E@ 3.25" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| JM | ENRGY 3.E@ 3.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| JM | ENRGY 3.E@ 3.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.40 | 19.90 | R |
| JM | ENRGY 3.E@ 3.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| JM | ENRGY 3.E@ 3.6" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.60 | 21.10 | R |
| JM | ENRGY 3.E@ 3.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.70 | 21.70 | R |
| JM | ENRGY 3.E@ 3.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| JM | ENRGY 3.E@ 3.8" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.80 | 22.30 | R |
| JM | ENRGY 3.E@ 3.9" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.90 | 23.00 | R |
| JM | ENRGY 3.E@ 4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| JM | ENRGY 3.E@ 4.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.10 | 24.20 | R |
| JM | ENRGY 3.E@ 4.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.20 | 24.90 | R |
| JM | ENRGY 3.E@ 4.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.30 | 25.50 | R |
| JM | ENRGY 3.E@ 4.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.40 | 26.10 | R |
| JM | ENRGY 3.E@ 4.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| JM | Tapered ENRGY 3.E@ 1A | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 3.60 | R |
| JM | Tapered ENRGY 3.E@ 1B | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75** | 5.00 | R |
| JM | Tapered ENRGY 3.E@ 01 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 6.40 | R |
| JM | Tapered ENRGY 3.E@ 02 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 7.80 | R |
| JM | Tapered ENRGY 3.E@ 03 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 9.30 | R |
| JM | Tapered ENRGY 3.E@ 04 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 10.70 | R |
| JM | Tapered ENRGY 3.E@ 05 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 12.10 | R |
| JM | Tapered ENRGY 3.E@ 06 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25** | 13.60 | R |
| JM | Tapered ENRGY 3.E@ AA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 4.30 | R |
| JM | Tapered ENRGY 3.E@ A | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 7.10 | R |
| JM | Tapered ENRGY 3.E@ B | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 10.00 | R |
| JM | Tapered ENRGY 3.E@ C | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 12.90 | R |
| JM | Tapered ENRGY 3.E@ D | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 15.90 | R |
| JM | Tapered ENRGY 3.E@ E | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3** | 18.90 | R |
| JM | Tapered ENRGY 3.E@ F | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.5** | 22.10 | R |
| JM | Tapered ENRGY 3.E@ G | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 8.60 | R |
| JM | Tapered ENRGY 3.E@ H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 14.40 | R |
| JM | Tapered ENRGY 3.E@ J | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 7.80 | R |
| JM | Tapered ENRGY 3.E@ K | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 12.10 | R |
| JM | Tapered ENRGY 3.E@ L | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 16.60 | R |
| JM | Tapered ENRGY 3.E@ M | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25** | 21.20 | R |
| JM | Tapered ENRGY 3.E@ I | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3** | 20.50 | R |
| JM | Tapered ENRGY 3.E@ X | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 5.70 | R |
| JM | Tapered ENRGY 3.E@ Y | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 11.40 | R |
| JM | Tapered ENRGY 3.E@ Z | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 17.40 | R |
| JM | Tapered ENRGY 3.E@ ZZ | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.5** | 23.60 | R |
| JM | Tapered ENRGY 3.E@ SS | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 7.10 | R |
| JM | Tapered ENRGY 3.E@ TT | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 15.90 | R |
| JM | Tapered ENRGY 3.E@ Q | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 8.60 | R |
| JM | Tapered ENRGY 3.E@ QQ | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 20.50 | R |
| JM | Tapered ENRGY 3.E@ R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75** | 5.70 | R |
| JM | Tapered ENRGY 3.E@ S | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 8.60 | R |
| JM | Tapered ENRGY 3.E@ T | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 11.40 | R |
| JM | Tapered ENRGY 3.E@ U | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25** | 14.40 | R |
| JM | Tapered ENRGY 3.E@ V | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75** | 17.40 | R |
| JM | Tapered ENRGY 3.E@ W | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25** | 20.50 | R |
| JM | Tapered ENRGY 3.E@ XX | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 11.40 | R |
| JM | Tapered ENRGY 3.E@ KK | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 9.30 | R |
| JM | Tapered ENRGY 3.E@ JJ | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 5.00 | R |
| JM | Tapered ENRGY 3.E@ FF | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4** | 25.30 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-----------------------------|--------------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | Tapered ENRGY 3.E@ LL | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 13.60 | R |
| JM | Tapered ENRGY 3.E@ MM | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75** | 18.20 | R |
| JM | ENRGY 3.E@ 25PSI 0.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.50 | 3.00 | R |
| JM | ENRGY 3.E@ 25PSI 0.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75 | 4.50 | R |
| JM | ENRGY 3.E@ 25PSI 1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| JM | ENRGY 3.E@ 25PSI 1.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.10 | 6.30 | R |
| JM | ENRGY 3.E@ 25PSI 1.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.20 | 6.80 | R |
| JM | ENRGY 3.E@ 25PSI 1.25" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| JM | ENRGY 3.E@ 25PSI 1.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.30 | 7.40 | R |
| JM | ENRGY 3.E@ 25PSI 1.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.40 | 8.00 | R |
| JM | ENRGY 3.E@ 25PSI 1.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| JM | ENRGY 3.E@ 25PSI 1.6" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| JM | ENRGY 3.E@ 25PSI 1.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.70 | 9.70 | R |
| JM | ENRGY 3.E@ 25PSI 1.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| JM | ENRGY 3.E@ 25PSI 1.8" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| JM | ENRGY 3.E@ 25PSI 1.9" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.90 | 10.80 | R |
| JM | ENRGY 3.E@ 25PSI 2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| JM | ENRGY 3.E@ 25PSI 2.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| JM | ENRGY 3.E@ 25PSI 2.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.20 | 12.60 | R |
| JM | ENRGY 3.E@ 25PSI 2.25" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| JM | ENRGY 3.E@ 25PSI 2.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| JM | ENRGY 3.E@ 25PSI 2.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.40 | 13.80 | R |
| JM | ENRGY 3.E@ 25PSI 2.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| JM | ENRGY 3.E@ 25PSI 2.6" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| JM | ENRGY 3.E@ 25PSI 2.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| JM | ENRGY 3.E@ 25PSI 2.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75 | 15.90 | R |
| JM | ENRGY 3.E@ 25PSI 2.8" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.80 | 16.20 | R |
| JM | ENRGY 3.E@ 25PSI 2.9" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.90 | 16.80 | R |
| JM | ENRGY 3.E@ 25PSI 3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| JM | ENRGY 3.E@ 25PSI 3.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.10 | 18.00 | R |
| JM | ENRGY 3.E@ 25PSI 3.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.20 | 18.60 | R |
| JM | ENRGY 3.E@ 25PSI 3.25" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| JM | ENRGY 3.E@ 25PSI 3.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| JM | ENRGY 3.E@ 25PSI 3.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.40 | 19.90 | R |
| JM | ENRGY 3.E@ 25PSI 3.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| JM | ENRGY 3.E@ 25PSI 3.6" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.60 | 21.10 | R |
| JM | ENRGY 3.E@ 25PSI 3.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.70 | 21.70 | R |
| JM | ENRGY 3.E@ 25PSI 3.75" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.75 | 22.00 | R |
| JM | ENRGY 3.E@ 25PSI 3.8" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.80 | 22.30 | R |
| JM | ENRGY 3.E@ 25PSI 3.9" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.90 | 23.00 | R |
| JM | ENRGY 3.E@ 25PSI 4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| JM | ENRGY 3.E@ 25PSI 4.1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.10 | 24.20 | R |
| JM | ENRGY 3.E@ 25PSI 4.2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.20 | 24.90 | R |
| JM | ENRGY 3.E@ 25PSI 4.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.30 | 25.50 | R |
| JM | ENRGY 3.E@ 25PSI 4.4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.40 | 26.10 | R |
| JM | ENRGY 3.E@ 25PSI 4.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| JM | Tapered ENRGY 3.E@ 25PSI 1A | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 3.60 | R |
| JM | Tapered ENRGY 3.E@ 25PSI 1B | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75** | 5.00 | R |
| JM | Tapered ENRGY 3.E@ 25PSI 01 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 6.40 | R |
| JM | Tapered ENRGY 3.E@ 25PSI 02 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 7.80 | R |
| JM | Tapered ENRGY 3.E@ 25PSI 03 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 9.30 | R |
| JM | Tapered ENRGY 3.E@ 25PSI 04 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 10.70 | R |
| JM | Tapered ENRGY 3.E@ 25PSI 05 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 12.10 | R |
| JM | Tapered ENRGY 3.E@ 25PSI 06 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25** | 13.60 | R |
| JM | Tapered ENRGY 3.E@ 25PSI AA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 4.30 | R |
| JM | Tapered ENRGY 3.E@ 25PSI A | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 7.10 | R |
| JM | Tapered ENRGY 3.E@ 25PSI B | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 10.00 | R |
| JM | Tapered ENRGY 3.E@ 25PSI C | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 12.90 | R |
| JM | Tapered ENRGY 3.E@ 25PSI D | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 15.90 | R |
| JM | Tapered ENRGY 3.E@ 25PSI E | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3** | 18.90 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-----------------------------|--------------|-----------------------|-------------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | Tapered ENRGY 3.E@ 25PSI F | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.5** | 22.10 | R |
| JM | Tapered ENRGY 3.E@ 25PSI G | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 8.60 | R |
| JM | Tapered ENRGY 3.E@ 25PSI H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 14.40 | R |
| JM | Tapered ENRGY 3.E@ 25PSI J | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 7.80 | R |
| JM | Tapered ENRGY 3.E@ 25PSI K | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 12.10 | R |
| JM | Tapered ENRGY 3.E@ 25PSI L | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 16.60 | R |
| JM | Tapered ENRGY 3.E@ 25PSI M | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25** | 21.20 | R |
| JM | Tapered ENRGY 3.E@ 25PSI I | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3** | 20.50 | R |
| JM | Tapered ENRGY 3.E@ 25PSI X | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 5.70 | R |
| JM | Tapered ENRGY 3.E@ 25PSI Y | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.5** | 11.40 | R |
| JM | Tapered ENRGY 3.E@ 25PSI Z | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 17.40 | R |
| JM | Tapered ENRGY 3.E@ 25PSI ZZ | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.5** | 23.60 | R |
| JM | Tapered ENRGY 3.E@ 25PSI SS | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 7.10 | R |
| JM | Tapered ENRGY 3.E@ 25PSI TT | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 15.90 | R |
| JM | Tapered ENRGY 3.E@ 25PSI Q | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 8.60 | R |
| JM | Tapered ENRGY 3.E@ 25PSI QQ | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.5** | 20.50 | R |
| JM | Tapered ENRGY 3.E@ 25PSI R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75** | 5.70 | R |
| JM | Tapered ENRGY 3.E@ 25PSI S | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 8.60 | R |
| JM | Tapered ENRGY 3.E@ 25PSI T | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75** | 11.40 | R |
| JM | Tapered ENRGY 3.E@ 25PSI U | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25** | 14.40 | R |
| JM | Tapered ENRGY 3.E@ 25PSI V | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75** | 17.40 | R |
| JM | Tapered ENRGY 3.E@ 25PSI W | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25** | 20.50 | R |
| JM | Tapered ENRGY 3.E@ 25PSI XX | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1** | 11.40 | R |
| JM | Tapered ENRGY 3.E@ 25PSI KK | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25** | 9.30 | R |
| JM | Tapered ENRGY 3.E@ 25PSI JJ | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.5** | 5.00 | R |
| JM | Tapered ENRGY 3.E@ 25PSI FF | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4** | 25.30 | R |
| JM | Tapered ENRGY 3.E@ 25PSI LL | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2** | 13.60 | R |
| JM | Tapered ENRGY 3.E@ 25PSI MM | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75** | 18.20 | R |
| JM | INVINSA | ISOCYANURATE | COMPOSITE | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.25 | 1.20 | R |
| JM | INVINSA FR | ISOCYANURATE | COMPOSITE | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.25 | 1.20 | R |
| JM | NAILBOARD 1.5" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 1.50 | 6.80 | R |
| JM | NAILBOARD 1.75" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 1.75 | 8.38 | R |
| JM | NAILBOARD 2" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 2.00 | 9.97 | R |
| JM | NAILBOARD 2.25" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 2.25 | 11.55 | R |
| JM | NAILBOARD 2.5" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 2.50 | 13.14 | R |
| JM | NAILBOARD 2.75" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 2.75 | 14.72 | R |
| JM | NAILBOARD 3" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 3.00 | 16.31 | R |
| JM | NAILBOARD 3.25" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 3.25 | 17.89 | R |
| JM | NAILBOARD 3.5" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 3.50 | 19.48 | R |
| JM | NAILBOARD 3.75" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 3.75 | 21.06 | R |
| JM | NAILBOARD 4" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 4.00 | 22.65 | R |
| JM | NAILBOARD 4.25" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 4.25 | 24.23 | R |
| JM | NAILBOARD 4.5" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 4.50 | 25.82 | R |
| JM | VENTED NAILBOARD 2.5" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 2.50 | 6.00 | R |
| JM | VENTED NAILBOARD 2.75" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 2.75 | 7.50 | R |
| JM | VENTED NAILBOARD 3" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 3.00 | 9.00 | R |
| JM | VENTED NAILBOARD 3.25" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 3.25 | 10.50 | R |
| JM | VENTED NAILBOARD 3.5" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 3.50 | 12.10 | R |
| JM | VENTED NAILBOARD 3.75" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 3.75 | 13.70 | R |
| JM | VENTED NAILBOARD 4" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 4.00 | 15.30 | R |
| JM | VENTED NAILBOARD 4.25" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 4.25 | 16.90 | R |
| JM | VENTED NAILBOARD 4.5" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 4.50 | 18.50 | R |
| JM | VENTED NAILBOARD 4.75" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 4.75 | 20.10 | R |
| JM | VENTED NAILBOARD 5" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 5.00 | 21.70 | R |
| JM | VENTED NAILBOARD 5.25" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 5.25 | 23.40 | R |
| JM | VENTED NAILBOARD 5.5" | ISOCYANURATE | COMPOSITE | STRAND BD | ROOF DECK | NO | NO | 5.50 | 25.00 | R |
| JM | Protector™ HD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| JM | Protector™ HD FR | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| JM | R-Panel™ 1" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| JM | R-Panel™ 1.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------------|--------------|-----------------------|-------------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | R-Panel™ 1.7" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.70 | 9.70 | R |
| JM | R-Panel™ 2" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| JM | R-Panel™ 2.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| JM | R-Panel™ 2.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| JM | R-Panel™ 3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| JM | R-Panel™ 3.3" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| JM | R-Panel™ 4" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| JM | SeparatoR™ 0.5" | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.50 | 2.90 | R |
| JM | SeparatoR™ CGF | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.50 | 2.90 | R |
| JM | SeparatoR™ FR | ISOCYANURATE | FACED SINGLE MATERIAL | COATED FIBERGLASS | ROOF DECK | NO | NO | 0.50 | 2.90 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MTL | METAL FOIL | EQUIP/DUCT | NO | YES | 1.00 | 6.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MTL | METAL FOIL | EQUIP/DUCT | NO | YES | 1.50 | 9.30 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MTL | METAL FOIL | EQUIP/DUCT | NO | YES | 2.00 | 13.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MTL | METAL FOIL | EQUIP/DUCT | NO | YES | 2.50 | 16.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MTL | METAL FOIL | EQUIP/DUCT | NO | YES | 3.00 | 19.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MTL | METAL FOIL | EQUIP/DUCT | NO | YES | 3.50 | 22.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MTL | METAL FOIL | EQUIP/DUCT | NO | YES | 4.00 | 26.00 | R |

**Minimum Thickness

* DESCRIPTION OF BRAND CODES:
 JM = JOHNS MANVILLE

| Kingspan Insulation LLC - T 1538 | | | | | | Updated 08/24/2022 | | | | |
|----------------------------------|------------|--------------|-----------------|------|------|--------------------|----|------|-------|---|
| ISO | ISO-C1/2.0 | ISOCYANURATE | SINGLE MATERIAL | NONE | WALL | NO | NO | 2.00 | 11.30 | R |
| ISO | ISO-C1/2.0 | ISOCYANURATE | SINGLE MATERIAL | NONE | WALL | NO | NO | 3.00 | 17.00 | R |

* DESCRIPTION OF BRAND CODES:
 ISO= ISO-C1

| Polyglass USA - T 1529 | | | | | | Updated 06/03/2019 | | | | |
|------------------------|-------------|--------------|-----------------------|-------------------|-----------|--------------------|----|------|-------|---|
| PLT | POLYTHERM | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| PLT | POLYTHERM | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| PLT | POLYTHERM | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| PLT | POLYTHERM | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| PLT | POLYTHERM | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| PLT | POLYTHERM | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| PLT | POLYTHERM | ISOCYANURATE | FACED SINGLE MATERIAL | GLASS FIBER FELT | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| PTG | POLYTHERM G | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| PTG | POLYTHERM G | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| PTG | POLYTHERM G | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| PTG | POLYTHERM G | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| PTG | POLYTHERM G | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| PTG | POLYTHERM G | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| PTG | POLYTHERM G | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| PTH | POLYTHERM-H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.60 | R |
| PTH | POLYTHERM-H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| PTH | POLYTHERM-H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| PTH | POLYTHERM-H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| PTH | POLYTHERM-H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| PTH | POLYTHERM-H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| PTH | POLYTHERM-H | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |

* DESCRIPTION OF BRAND CODES:
 PLT = POLYTHERM
 PTG = POLYTHERM G
 PTH = POLYTHERM-H

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|---|------------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| Rmax, A Business Unit of Sika Corporation - T 1523 | | | | | | Updated 10/14/2024 | | | | |
| AB | ECOMAXCI FR AB | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.00 | 13.10 | R |
| AB | ECOMAXCI FR AB | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.50 | 16.70 | R |
| AB | ECOMAXCI FR AB | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.00 | 20.30 | R |
| AB | ECOMAXCI FR AB | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.50 | 23.90 | R |
| AB | ECOMAXCI FR AB | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.00 | 27.40 | R |
| AB | ECOMAXCI FR AB | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.50 | 31.00 | R |
| CCG | CONCRETE CORE CG | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 0.50 | 3.00 | R |
| CCG | CONCRETE CORE CG | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 1.00 | 6.00 | R |
| CCG | CONCRETE CORE CG | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 1.50 | 9.00 | R |
| CCG | CONCRETE CORE CG | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 2.00 | 12.10 | R |
| CCG | CONCRETE CORE CG | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 2.50 | 15.30 | R |
| CCG | CONCRETE CORE CG | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 3.00 | 18.50 | R |
| CCG | CONCRETE CORE CG | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 3.50 | 21.70 | R |
| CCG | CONCRETE CORE CG | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 4.00 | 25.00 | R |
| CCG | CONCRETE CORE CG | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 4.50 | 28.30 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 0.50 | 3.00 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 0.63 | 3.80 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 0.75 | 4.50 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 1.00 | 6.00 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 1.50 | 9.00 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 2.00 | 12.10 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 2.50 | 15.30 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 3.00 | 18.50 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 3.50 | 21.70 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 4.00 | 25.00 | R |
| DS | DURASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | FIB GLS | CLG WALL FLR | NO | NO | 4.50 | 28.30 | R |
| ECI | ECOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.00 | 13.10 | R |
| ECI | ECOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.50 | 16.70 | R |
| ECI | ECOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.00 | 20.30 | R |
| ECI | ECOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.50 | 23.90 | R |
| ECI | ECOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.00 | 27.40 | R |
| ECI | ECOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.50 | 31.00 | R |
| ECP | ECOMAXCI PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 1.38 | 5.20 | R |
| ECP | ECOMAXCI PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 1.63 | 6.70 | R |
| ECP | ECOMAXCI PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 2.13 | 9.80 | R |
| ECP | ECOMAXCI PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 3.13 | 16.00 | R |
| ECP | ECOMAXCI PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 3.63 | 19.20 | R |
| ECP | ECOMAXCI PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 4.13 | 22.50 | R |
| ECP | ECOMAXCI PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 4.63 | 25.70 | R |
| ECP | ECOMAXCI PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 5.13 | 29.00 | R |
| ECP | ECOMAXCI PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 1.50 | 5.40 | R |
| ECP | ECOMAXCI PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 1.75 | 6.90 | R |
| ECP | ECOMAXCI PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 2.15 | 9.30 | R |
| ECP | ECOMAXCI PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 3.25 | 16.20 | R |
| ECP | ECOMAXCI PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 3.75 | 19.40 | R |
| ECP | ECOMAXCI PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 4.25 | 22.70 | R |
| ECP | ECOMAXCI PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 4.75 | 25.90 | R |
| ECP | ECOMAXCI PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 5.25 | 29.20 | R |
| EVO | EVOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.00 | 13.10 | R |
| EVO | EVOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.50 | 16.70 | R |
| EVO | EVOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.00 | 20.30 | R |
| EVO | EVOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.50 | 23.90 | R |
| EVO | EVOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.00 | 27.40 | R |
| EVO | EVOMAXCI | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.50 | 31.00 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|---------------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.00 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 7.80 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.60 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 13.10 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 14.90 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 16.70 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 20.30 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 22.10 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 23.90 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 25.70 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 27.40 | R |
| FR | ECOMAXCI FR | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.50 | 31.00 | R |
| FRP | ECOMAXCI FR PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 1.38 | 5.70 | R |
| FRP | ECOMAXCI FR PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 1.63 | 6.70 | R |
| FRP | ECOMAXCI FR PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 2.13 | 10.30 | R |
| FRP | ECOMAXCI FR PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 3.13 | 17.40 | R |
| FRP | ECOMAXCI FR PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 3.63 | 21.00 | R |
| FRP | ECOMAXCI FR PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 4.13 | 24.60 | R |
| FRP | ECOMAXCI FR PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 4.63 | 28.10 | R |
| FRP | ECOMAXCI FR PLY*** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 5.13 | 31.70 | R |
| FRP | ECOMAXCI FR PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 1.50 | 5.90 | R |
| FRP | ECOMAXCI FR PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 1.75 | 6.90 | R |
| FRP | ECOMAXCI FR PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 2.25 | 10.50 | R |
| FRP | ECOMAXCI FR PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 3.25 | 17.60 | R |
| FRP | ECOMAXCI FR PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 3.75 | 21.20 | R |
| FRP | ECOMAXCI FR PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 4.25 | 24.80 | R |
| FRP | ECOMAXCI FR PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 4.75 | 28.30 | R |
| FRP | ECOMAXCI FR PLY**** | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 5.25 | 31.90 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.00 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 7.80 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.60 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 13.10 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 16.70 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 20.30 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 23.90 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 27.40 | R |
| FRW | ECOMAXCI FR WHITE | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.50 | 31.00 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| MFA | MULTI-MAX FA-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------------|--------------|-----------------------|--------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| MHD | MULTI-MAX HD | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| MM | MULTI-MAX-3 | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| MM | MULTI-MAX-3 | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| MM | MULTI-MAX-3 | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| MM | MULTI-MAX-3 | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| MM | MULTI-MAX-3 | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| MM | MULTI-MAX-3 | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| MM | MULTI-MAX-3 | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| MM | MULTI-MAX-3 | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| MM | MULTI-MAX-3 | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 1.50 | 6.30 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 2.10 | 9.70 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 2.50 | 12.00 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 2.70 | 13.20 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 3.00 | 15.00 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 3.30 | 16.80 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 3.50 | 18.00 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 3.80 | 19.80 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 4.00 | 21.10 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 4.50 | 24.20 | R |
| NB3 | NAILABLE BASE-3 | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | NO | NO | 5.00 | 27.40 | R |
| RB3 | RE-COVER BOARD-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75 | 4.30 | R |
| RB3 | RE-COVER BOARD-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| RB3 | RE-COVER BOARD-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.20 | 6.80 | R |
| RB3 | RE-COVER BOARD-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.40 | 8.00 | R |
| RBG | RMAX BELOW GRADE | ISOCYANURATE | FACED SINGLE MATERIAL | PLASTIC FILM | CLG WALL FLR | NO | YES | 0.75 | 5.00 | R |
| RBG | RMAX BELOW GRADE | ISOCYANURATE | FACED SINGLE MATERIAL | PLASTIC FILM | CLG WALL FLR | NO | YES | 1.00 | 6.00 | R |
| RBG | RMAX BELOW GRADE | ISOCYANURATE | FACED SINGLE MATERIAL | PLASTIC FILM | CLG WALL FLR | NO | YES | 1.50 | 10.00 | R |
| RBG | RMAX BELOW GRADE | ISOCYANURATE | FACED SINGLE MATERIAL | PLASTIC FILM | CLG WALL FLR | NO | YES | 2.00 | 13.10 | R |
| RBG | RMAX BELOW GRADE | ISOCYANURATE | FACED SINGLE MATERIAL | PLASTIC FILM | CLG WALL FLR | NO | YES | 2.30 | 15.00 | R |
| RBG | RMAX BELOW GRADE | ISOCYANURATE | FACED SINGLE MATERIAL | PLASTIC FILM | CLG WALL FLR | NO | YES | 2.50 | 16.70 | R |
| RBG | RMAX BELOW GRADE | ISOCYANURATE | FACED SINGLE MATERIAL | PLASTIC FILM | CLG WALL FLR | NO | YES | 3.00 | 20.30 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 0.50 | 3.20 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 0.63 | 4.00 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 0.75 | 5.00 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 1.00 | 6.00 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 1.50 | 9.60 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.00 | 13.10 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 2.50 | 16.70 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.00 | 20.30 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 3.50 | 23.90 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.00 | 27.40 | R |
| RMP | R MATTE PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | WALL | NO | YES | 4.50 | 31.00 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.10 | 12.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| SS | SARNATHERM R | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| SCG | SARNATHERM R CG | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| SCG | SARNATHERM R CG | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| SCG | SARNATHERM R CG | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| SCG | SARNATHERM R CG | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| SCG | SARNATHERM R CG | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| SCG | SARNATHERM R CG | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| SCG | SARNATHERM R CG | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 1.00 | 3.60 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 1.25 | 5.10 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 1.50 | 6.60 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 2.00 | 9.60 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 2.50 | 12.70 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 3.00 | 15.90 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 3.50 | 19.10 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 4.00 | 22.30 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 4.50 | 25.60 | R |
| TBD | THERMABASE-CI DS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 5.00 | 28.90 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 1.00 | 3.80 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 1.25 | 5.30 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 1.50 | 6.60 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 2.00 | 10.20 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 2.50 | 13.70 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 3.00 | 17.30 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 3.50 | 20.90 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 4.00 | 24.50 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 4.50 | 28.00 | R |
| TBT | THERMABASE-CI TS | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | NO | 5.00 | 31.60 | R |
| TRP | THERMAROOF PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | ROOF DECK | NO | YES | 1.00 | 6.00 | R |
| TRP | THERMAROOF PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | ROOF DECK | NO | YES | 1.50 | 9.60 | R |
| TRP | THERMAROOF PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | ROOF DECK | NO | YES | 2.00 | 13.10 | R |
| TRP | THERMAROOF PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | ROOF DECK | NO | YES | 2.25 | 16.70 | R |
| TRP | THERMAROOF PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | ROOF DECK | NO | YES | 3.00 | 20.30 | R |
| TRP | THERMAROOF PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | ROOF DECK | NO | YES | 3.50 | 23.90 | R |
| TRP | THERMAROOF PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | ROOF DECK | NO | YES | 4.00 | 27.40 | R |
| TRP | THERMAROOF PLUS-3 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | ROOF DECK | NO | YES | 4.50 | 31.00 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 0.50 | 3.20 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 0.75 | 5.00 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 1.00 | 6.00 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 1.25 | 7.80 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 1.50 | 9.60 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 1.75 | 11.40 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 2.00 | 13.10 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 2.25 | 14.90 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 2.50 | 16.70 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 3.00 | 20.30 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 3.25 | 22.10 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 3.50 | 23.90 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 3.75 | 25.70 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 4.00 | 27.40 | R |
| TS | THERMASHEATH | ISOCYANURATE | FACED SINGLE MATERIAL | METAL | CLG WALL FLR | NO | YES** | 4.50 | 31.00 | R |
| TSC | SARNATHERM R CG TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | ROOF DECK | NO | NO | 0.75 | 4.30 | R |
| TSC | SARNATHERM R CG TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| TSC | SARNATHERM R CG TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| TSC | SARNATHERM R CG TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| TSC | SARNATHERM R CG TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| TSC | SARNATHERM R CG TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| TSC | SARNATHERM R CG TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| TSC | SARNATHERM R CG TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| TSC | SARNATHERM R CG TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | OTHER | ROOF DECK | NO | NO | 4.25 | 25.20 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 1.00 | 6.00 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 1.25 | 7.60 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 1.50 | 9.00 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 1.75 | 10.60 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 2.00 | 12.10 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 2.25 | 13.70 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 2.50 | 15.30 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 2.75 | 16.90 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 3.00 | 18.50 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 3.50 | 21.70 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 4.00 | 25.00 | R |
| TSA | TSA-FA | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | CLG WALL FLR | NO | NO | 4.50 | 28.30 | R |
| TSI | THERMASHEATH-SI | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 0.50 | 3.20 | R |
| TSI | THERMASHEATH-SI | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 0.75 | 5.00 | R |
| TSI | THERMASHEATH-SI | ISOCYANURATE | COMPOSITE | OTHER | WALL | NO | YES | 1.00 | 6.00 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75 | 4.30 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75 | 15.90 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.75 | 22.10 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| TSS | SARNATHERM R TAPERED | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.25 | 25.20 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.00 | 6.00 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.25 | 7.80 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.50 | 9.60 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 1.75 | 11.40 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 2.00 | 13.10 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 2.25 | 14.90 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 2.50 | 16.70 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 2.75 | 18.50 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 3.00 | 20.30 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 3.25 | 22.10 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 3.50 | 23.90 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 4.00 | 27.40 | R |
| TSP | TSP | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | NO | YES | 4.50 | 31.00 | R |
| TSR | TS-RDECK | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | YES | YES | 1.00 | 3.80 | R |
| TSR | TS-RDECK | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | YES | YES | 1.50 | 6.60 | R |
| TSR | TS-RDECK | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | YES | YES | 2.00 | 10.20 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|----------------------|--------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| TSR | TS-RDECK | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | YES | YES | 2.50 | 13.70 | R |
| TSR | TS-RDECK | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | YES | YES | 3.00 | 17.30 | R |
| TSR | TS-RDECK | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | YES | YES | 3.50 | 20.90 | R |
| TSR | TS-RDECK | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | YES | YES | 4.00 | 24.50 | R |
| TSR | TS-RDECK | ISOCYANURATE | COMPOSITE | OTHER | ROOF DECK | YES | YES | 4.50 | 28.00 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 0.75 | 4.30 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.75 | 15.90 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.75 | 22.10 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| TTR | TAPERED THERMAROOF-3 | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.25 | 25.20 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 0.75 | 4.30 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.75 | 15.90 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.75 | 22.10 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| TUF | TAPERED ULT-MAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.25 | 25.20 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 0.75 | 4.30 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.25 | 7.10 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.75 | 10.00 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.25 | 12.90 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.75 | 15.90 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.25 | 18.90 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.75 | 22.10 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| TUM | TAPERED ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.25 | 25.20 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.60 | 15.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| UM | ULTRAMAX | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.60 | 9.10 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.80 | 10.30 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.10 | 12.00 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.30 | 13.20 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.60 | 15.00 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.30 | 19.20 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| UMF | ULTRAMAX FR | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| UMP | ULTRAMAX PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| UMP | ULTRAMAX PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| UMP | ULTRAMAX PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| UMP | ULTRAMAX PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| UMP | ULTRAMAX PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| UMP | ULTRAMAX PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| UMP | ULTRAMAX PLUS | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.50 | 26.80 | R |
| UPT | ULTRAMAX PLUS TAP | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 0.75 | 4.30 | R |
| UPT | ULTRAMAX PLUS TAP | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| UPT | ULTRAMAX PLUS TAP | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| UPT | ULTRAMAX PLUS TAP | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| UPT | ULTRAMAX PLUS TAP | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| UPT | ULTRAMAX PLUS TAP | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| UPT | ULTRAMAX PLUS TAP | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| UPT | ULTRAMAX PLUS TAP | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| UPT | ULTRAMAX PLUS TAP | ISOCYANURATE | FACED SINGLE MATERIAL | FBR GLS | ROOF DECK | NO | NO | 4.25 | 25.20 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.00 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 7.80 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.60 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 13.10 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 14.90 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 16.70 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 20.30 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 22.10 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 23.90 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 25.70 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 27.40 | R |
| X00 | TSX 8500 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.50 | 31.00 | R |
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.00 | R |
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 7.80 | R |
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.60 | R |
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 13.10 | R |
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 16.70 | R |
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 20.30 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------|--------------|-----------------------|------------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 23.90 | R |
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 27.40 | R |
| X10 | TSX-8510 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.50 | 31.00 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 0.75 | 5.00 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.00 | 6.00 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.25 | 7.80 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.50 | 9.60 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 1.75 | 11.40 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.00 | 13.10 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.25 | 14.90 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 2.50 | 16.70 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.00 | 20.30 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.25 | 22.10 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.50 | 23.90 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 3.75 | 25.70 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.00 | 27.40 | R |
| X20 | TSX-8520 | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | CLG WALL FLR | YES | YES | 4.50 | 31.00 | R |

** WITH TAPED JOINTS

*** WITH 5/8-IN FRTP

*** WITH 3/4-IN FRTP

* DESCRIPTION OF BRAND CODES:

AB = ECOMAXCI FR AB

CCG = CONCRETE CORE-CGF

DS = DURASHEATH

ECI = ECOMAXCI

ECP = ECOMAXCI PLY

EVO = EVOMAXCI

FR = ECOMAXCI FR

FRP = ECOMAXCI FR PLY

FRW = ECOMAXCI FR WHITE

MFA = MULTI-MAX FA-3

MHD = MULTI-MAX HD

MM = MULTI-MAX-3

NB3 = NAILABLE BASE-3

RB3 = RE-COVER BOARD-3

RBG = RMAX BELOW GRADE

RMP = R MATTE PLUS-3

SS = SARNATHERM R

SCG = SARNATHERM R CG

TBD = THERMABASE-CI DS

TBT = THERMABASE-CI TS

TRP = THERMAROOF PLUS-3

TS = THERMASHEATH

TSC = SARNATHERM R CG TAPERED

TSA = TSA-FA

TSI = THERMASHEATH-SI

TSS = SARNATHERM R TAPERED

TSP = TSP

TSR = THERMASHEATH-RDECK

TTR = TAPERED THERMAROOF-3

TUF = TAPERED ULT-MAX FR

TUM = TAPERED ULTRAMAX

UM = ULTRAMAX

UMF = ULTRAMAX FR

UMP = ULTRAMAX PLUS

UPT = ULTRAMAX PLUS TAP

X00 = TSX 8500

X10 = TSX-8510

X20 = TSX-8520

| Versico Inc. - T 1419 | | | | | | Updated 09/30/2024 | | | | |
|-----------------------|--------------------------|--------------|-----------------------|-------------------|-----------|--------------------|----|------|---------|---|
| VCD | SECURSHIELD CD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| VCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| VCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| VCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| VCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| VCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| VCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| VCG | SECURSHIELD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| VFF | MP-F POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 1.00 | 6.7 ** | R |
| VFF | MP-F POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 1.50 | 10.5 ** | R |
| VFF | MP-F POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 2.00 | 14.4 ** | R |
| VFF | MP-F POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 2.50 | 17.5 ** | R |
| VFF | MP-F POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 2.70 | 19.3 ** | R |
| VFF | MP-F POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 3.00 | 21.2 ** | R |
| VFF | MP-F POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | ALUM FOIL CRAFT | ROOF DECK | NO | NO | 4.00 | 28 ** | R |
| VHC | SECURSHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 2.00 | 11.10 | R |
| VHC | SECURSHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 2.50 | 13.90 | R |
| VHC | SECURSHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 3.00 | 16.90 | R |
| VHC | SECURSHIELD HD COMPOSITE | ISOCYANURATE | COMPOSITE | COATED GLASS FELT | ROOF DECK | NO | NO | 4.00 | 23.00 | R |
| VHD | SECURSHIELD HD | ISOCYANURATE | FACED SINGLE MATERIAL | COATED GLASS FELT | ROOF DECK | NO | NO | 0.50 | 2.50 | R |
| VNB | MP-HNB INSULATION | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 1.50 | 6.20 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-----------------------|--------------|-----------------------|------------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| VNB | MP-HNB INSULATION | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 2.00 | 9.20 | R |
| VNB | MP-HNB INSULATION | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 3.00 | 15.00 | R |
| VNB | MP-HNB INSULATION | ISOCYANURATE | COMPOSITE | WAFERBOARD | ROOF DECK | NO | NO | 4.00 | 21.10 | R |
| VSD | MP-H POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.00 | 5.70 | R |
| VSD | MP-H POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 1.50 | 8.60 | R |
| VSD | MP-H POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.00 | 11.40 | R |
| VSD | MP-H POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.50 | 14.40 | R |
| VSD | MP-H POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 2.70 | 15.60 | R |
| VSD | MP-H POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.00 | 17.40 | R |
| VSD | MP-H POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 3.50 | 20.50 | R |
| VSD | MP-H POLYISOCYANURATE | ISOCYANURATE | FACED SINGLE MATERIAL | PAPER | ROOF DECK | NO | NO | 4.00 | 23.60 | R |
| VWF | MP-HWF INSULATION | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 1.50 | 7.00 | R |
| VWF | MP-HWF INSULATION | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 2.00 | 10.00 | R |
| VWF | MP-HWF INSULATION | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 2.50 | 12.80 | R |
| VWF | MP-HWF INSULATION | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 3.00 | 15.80 | R |
| VWF | MP-HWF INSULATION | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 3.50 | 18.80 | R |
| VWF | MP-HWF INSULATION | ISOCYANURATE | COMPOSITE | FIBERBOARD | ROOF DECK | NO | NO | 4.00 | 21.90 | R |

**=Initial R-Values

* DESCRIPTION OF BRAND CODES:

VCD = SECURSHIELD CD

VCG = MP-HCG

VFF = MP-F POLYISOCYANURATE

VHC = SECURSHIELD HD COMPOSITE

VHD = SECURSHIELD HD

VNB = MP-H-NB

VSD = MP-H

VWF = MP-H-WF

| Polystyrene Board | | | | | | | | | | |
|--------------------------------|------------------------|-------------|-----------------------|---------|-------------|-------------------|-----|--------|-------|---|
| Atlas Molded Products - T 1472 | | | | | | Updated 9/30/2024 | | | | |
| EPS | THERMALSTAR LWI/LRI 10 | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | RF WALL FLR | YES | YES | **1.00 | **3.6 | R |
| EPS | THERMALSTAR LWI/LRI 13 | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | RF WALL FLR | YES | YES | **1.00 | **3.8 | R |
| EPS | THERMALSTAR LWI/LRI 15 | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | RF WALL FLR | YES | YES | **1.00 | **4.0 | R |
| EPS | THERMALSTAR LWI/LRI 25 | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | RF WALL FLR | YES | YES | **1.00 | **4.2 | R |
| EPS | THERMALSTAR LWI/LRI 40 | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | RF WALL FLR | YES | YES | **1.00 | **4.5 | R |
| EPS | THERMALSTAR LWI/LRI 60 | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | RF WALL FLR | YES | YES | **1.00 | **4.6 | R |
| EPS | TYPE I / EPS15 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **3.6 | R |
| EPS | TYPE VIII / EPS19 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **3.8 | R |
| EPS | TYPE II / EPS22 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.0 | R |
| EPS | TYPE IX / EPS29 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.2 | R |
| EPS | TYPE XIV / EPS39 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.5 | R |
| EPS | TYPE XV / EPS46 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.6 | R |
| GPS | GPS TYPE I | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.7 | R |
| GPS | GPS TYPE II | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.7 | R |
| GPS | GPS TYPE VIII | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.7 | R |
| GPS | GPS TYPE IX | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.7 | R |

* DESCRIPTION OF BRAND CODES:

GPS = GRAPHITE EPS

EPS = EPS

** = Values will vary with thickness. Stated values are R values per inch. EPS & GPS can be as thick as 48", and ThermalStar LWI/LRI can be as thick as 4".

| BASF Corporation - T 1533 | | | | | | Updated 10/29/2020 | | | | |
|---------------------------|-----------|-------------|-----------------|-----------|---------------------|--------------------|-----|------|------|---|
| NEO | TYPE I | POLYSTYRENE | SINGLE MATERIAL | NONE | RF, WALL, PERIMETER | NO | NO | 1.00 | 4.70 | R |
| NEO | TYPE VIII | POLYSTYRENE | SINGLE MATERIAL | NONE | RF, WALL, PERIMETER | NO | NO | 1.00 | 4.70 | R |
| NEO | TYPE VIII | POLYSTYRENE | SINGLE MATERIAL | NONE | RF, WALL, PERIMETER | NO | NO | 1.06 | 5.00 | R |
| NEO | TYPE II | POLYSTYRENE | SINGLE MATERIAL | NONE | RF, WALL, PERIMETER | NO | NO | 1.00 | 4.70 | R |
| NEO | TYPE II | POLYSTYRENE | SINGLE MATERIAL | NONE | RF, WALL, PERIMETER | NO | NO | 1.06 | 5.00 | R |
| NEO | TYPE XI | POLYSTYRENE | SINGLE MATERIAL | NONE | PERIMETER | YES | NO | 1.06 | 4.90 | R |
| THR | TYPE II | POLYSTYRENE | DUAL MATERIAL | HOUSEWRAP | WALL, PERIMETER | YES | YES | 1.06 | 5.00 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------|----------|------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
|-------------|------------|----------|------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|

* DESCRIPTION OF BRAND CODES:
NEO=NEOPOR GRAPHITE ENHANCED POLYSTYRENE
THR=NEOPOR THERMAPLUS WRB CONTINUOUS INSULATION

| DuPont de Nemours Inc. - T 1535 | | | | | Updated 04/15/2024 | | | | | |
|---------------------------------|-----------------------|-------------|-----------------------|---------|--------------------|----|-----|------|-------|---|
| DOW | BLUECOR | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 0.25 | 1.00 | R |
| DOW | DOW HP UL | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 0.25 | 1.00 | R |
| DOW | DOW HP UL | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 0.38 | 1.50 | R |
| DOW | DOW HP UL | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 0.50 | 2.10 | R |
| DOW | STO INSUL-X** | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | 1.00 | 5.00 | R |
| SF | CAVITYMATE ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 1.00 | 5.60 | R |
| SF | CAVITYMATE ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 1.75 | 10.00 | R |
| SF | CAVITYMATE ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 2.13 | 12.00 | R |
| SF | CAVITYMATE ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 2.50 | 14.00 | R |
| SF | CAVITYMATE ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 2.79 | 15.60 | R |
| SF | CAVITYMATE ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 3.00 | 16.80 | R |
| SF | CAVITYMATE ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 3.50 | 19.60 | R |
| SF | DOW PROTECTION BD III | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL FLR | NO | YES | 0.25 | 1.00 | R |
| SF | LEVELR | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 0.25 | 1.00 | R |
| SF | LEVELR | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 0.38 | 1.40 | R |
| SF | RECOVERMATE CR | POLYSTYRENE | FACED SINGLE MATERIAL | KRAFT | ROOF | NO | YES | 0.38 | 1.50 | R |
| SF | RESIDENTIAL SHEATHING | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 0.55 | 3.00 | R |
| SF | RESIDENTIAL SHEATHING | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 0.75 | 4.00 | R |
| SF | RESIDENTIAL SHEATHING | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 1.00 | 5.00 | R |
| SF | STUCCOMATE | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 0.75 | 4.00 | R |
| SF | STUCCOMATE | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 1.00 | 5.00 | R |
| SF | TYPE IV** | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | 1.00 | 5.00 | R |
| SF | TYPE V** | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | 1.00 | 5.00 | R |
| SF | TYPE VI** | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | 1.00 | 5.00 | R |
| SF | TYPE VII** | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | 1.00 | 5.00 | R |
| SF | TYPE X** | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | 1.00 | 5.00 | R |
| SF | ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 1.00 | 5.60 | R |
| SF | ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 1.75 | 10.00 | R |
| SF | ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 2.13 | 12.00 | R |
| SF | ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 2.50 | 14.00 | R |
| SF | ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 2.79 | 15.60 | R |
| SF | ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 3.00 | 16.80 | R |
| SF | ULTRA | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | YES | 3.50 | 19.60 | R |

** = Values will vary with thickness. Stated values are for 1 inch = R-5.

* DESCRIPTION OF BRAND CODES:
DOW = DOW CHEMICAL CO SF = STYROFOAM

| Insulfoam - T 1482 | | | | | Updated 10/04/2012 | | | | | |
|--------------------|-------------------|-------------|-----------------------|---------|--------------------|----|----|------|-------|---|
| IF | INSULFOAM15FS015 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 1.00 | 4.20 | R |
| IF | INSULFOAM15FS015 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 1.50 | 6.20 | R |
| IF | INSULFOAM1FSO-15 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 0.50 | 2.00 | R |
| IF | INSULFOAM1FSO-15 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 1.00 | 4.00 | R |
| IF | INSULFOAM1FSO-15 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 1.50 | 6.00 | R |
| IF | INSULFOAM1FSO-15 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 2.00 | 8.00 | R |
| IF | INSULFOAM1FSO-15 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 2.50 | 10.00 | R |
| IF | INSULFOAM1FSO-15 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 3.00 | 12.00 | R |
| IF | INSULFOAM1FSO-15 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 3.50 | 14.00 | R |
| IF | INSULFOAM1FSO-15 | POLYSTYRENE | SINGLE MATERIAL | NONE | CLG WALL FLR | NO | NO | 4.00 | 16.00 | R |
| IF | INSULFOAMR-TECH I | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | NO | NO | 0.38 | 1.45 | R |
| IF | INSULFOAMR-TECH I | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | NO | NO | 0.50 | 1.93 | R |

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|-------------------|-------------|-----------------------|---------|--------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| IF | INSULFOAMR-TECH I | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | NO | NO | 0.75 | 2.89 | R |
| IF | INSULFOAMR-TECH I | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | NO | NO | 1.00 | 3.85 | R |
| IF | INSULFOAMR-TECH I | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | NO | NO | 1.50 | 5.78 | R |
| IF | INSULFOAMR-TECH I | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | NO | NO | 2.00 | 7.70 | R |
| IF | INSULFOAMR-TECH I | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | NO | NO | 3.00 | 11.60 | R |
| IF | INSULFOAMR-TECH I | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | CLG WALL FLR | NO | NO | 4.00 | 15.50 | R |

R VALUE TEST ASTM C518

*DESCRIPTION OF BRAND CODES

IF = INSULFOAM

| Kingspan Insulation, LLC - T 1506 | | | | | Updated 03/29/2021 | | | | | |
|-----------------------------------|------------------------|-------------|-----------------------|---------|--------------------|----|-----|------|----------|---|
| KNG | DC14** | POLYSTYRENE | FOAM LAYERS | PLASTIC | WALL | NO | NO | 0.25 | 1.00 | R |
| KNG | FP1450** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.25 | 1.00 | R |
| KNG | FQ250 | POLYSTYRENE | SINGLE MATERIAL | FOIL | WALL | NO | NO | 0.20 | 2.9***** | R |
| KNG | FQ350 | POLYSTYRENE | SINGLE MATERIAL | FOIL | WALL | NO | NO | 0.30 | 3.1***** | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 0.50 | 3.00 | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 0.75 | 3.80 | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 1.00 | 5.00 | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 2.00 | 10.00 | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 3.00 | 15.00 | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | WALL | NO | YES | 4.00 | 20.00 | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF | NO | YES | 1.00 | 5.00 | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF | NO | YES | 2.00 | 10.00 | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF | NO | YES | 3.00 | 15.00 | R |
| KNG | GREENGUARD LG | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF | NO | YES | 4.00 | 20.00 | R |
| KNG | GREENGUARD LG -CMX/SLX | POLYSTYRENE | FOAM LAYERS | PLASTIC | WALL | NO | YES | 0.50 | 3.00 | R |
| KNG | GREENGUARD LG-CMX/SLX | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | YES | 0.75 | 3.80 | R |
| KNG | GREENGUARD LG-CMX/SLX | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | YES | 1.00 | 5.00 | R |
| KNG | P1450** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.25 | 1.00 | R |
| KNG | PB38*** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | YES | 0.37 | 1.50 | R |
| KNG | PB4*** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 0.25 | 1.00 | R |
| KNG | PB6** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | YES | 0.37 | 1.50 | R |
| KNG | PB6HD** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | YES | 0.37 | 1.50 | R |
| KNG | PB6 PLUS** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | NO | 0.37 | 1.50 | R |
| KNG | PB6W/DURO-GUARD | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | NO | 0.37 | 1.50 | R |
| KNG | PG38*** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | YES | 0.37 | 1.50 | R |
| KNG | PG38*** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.44 | 2.00 | R |
| KNG | PG48*** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.44 | 2.00 | R |
| KNG | PG49*** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.44 | 2.00 | R |
| KNG | PGF28*** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | YES | 0.37 | 1.50 | R |
| KNG | PLYGOOD-ULTRA | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 0.37 | 1.50 | R |
| KNG | PLYGOOD-ULTRA | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | 0.44 | 1.80 | R |
| KNG | Q250** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.20 | --- | - |
| KNG | Q350** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.30 | --- | - |
| KNG | S14** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.25 | 1.00 | R |
| KNG | XFP14** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.25 | 1.00 | R |
| KNG | XFP38 | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.37 | 1.50 | R |
| KNG | XP14** | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.25 | 1.00 | R |
| KNG | XP38 | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | NO | 0.37 | 1.50 | R |

** = Values will vary with thickness. Stated values are for R-5.

*** = Exposure applicable to AGTEK only.

**** = System R-Value is calculated in accordance with the "ASHRE Handbook of Fundamentals" using a 1/2" uniform parallel uniform dead air space. The R-Value of this product installed without an air space is 1.1

***** = System R-Value is calculated in accordance with the "ASHRE Handbook of Fundamentals" using a 1/2" uniform parallel dead air space. The R-Value of this product installed without

*DESCRIPTION OF BRAND CODES:

BHGS - THERMAL INSULATION DIRECTORY
BOARD INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------|----------|------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
|-------------|------------|----------|------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|

KNG = KINGSPAN INSULATION, LLC

an air space is 0.9

| Owens Corning Foam Insulation LLC - T 1427 | | | | | Updated 6/14/2008 | | | | | |
|--|--------------|-------------|-----------------------|---------|-------------------|--------|-----|--------|-------|---|
| FMR | D-FA, D-PLUS | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | ROOF | NO | YES | **1.00 | **5.0 | R |
| FMR | F-IS | POLYSTYRENE | FACED SINGLE MATERIAL | PLASTIC | WALL | NO | YES | **1.00 | **5.0 | R |
| FMR | FF, F-1/2" | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | **1.00 | **5.0 | R |
| FMR | TYPE IV | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | YES*** | YES | **1.00 | **5.0 | R |
| FMR | TYPE V | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | **1.00 | **5.0 | R |
| FMR | TYPE VI | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | **1.00 | **5.0 | R |
| FMR | TYPE VII | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | **1.00 | **5.0 | R |
| FMR | TYPE X | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | YES | **1.00 | **5.0 | R |

** = Values will vary with thickness. Stated values are for R-5.

*** = Exposure applicable to AGTEK only.

* DESCRIPTION OF BRAND CODES:
FMR = FOAMULAR

| Poliestireno Alfa Gamma S.A. de C.V. - T 1470 | | | | | Updated 09/30/2022 | | | | | |
|---|-----------------|-------------|-----------------|------|--------------------|----|----|--------|--------|---|
| ALT | TYPE XI/EPS12 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **3.20 | R |
| ALT | TYPE I/EPS15 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **3.60 | R |
| ALT | TYPE VIII/EPS19 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **3.80 | R |
| ALT | TYPE II/EPS22 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.00 | R |
| ALT | TYPE IX/EPS29 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.20 | R |
| ALT | TYPE XIV/EPS39 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.20 | R |
| ALT | TYPE XV/EPS46 | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.30 | R |
| ALT | GPS TYPE II | POLYSTYRENE | SINGLE MATERIAL | NONE | RF WALL FLR | NO | NO | **1.00 | **4.70 | R |

* DESCRIPTION OF BRAND CODES:
ALT = ALFATERM GEOFOAM

** = Values will vary with thickness. Stated values are R values per inch.

| Siplast, Inc. - T 1320 | | | | | Updated 06/14/2008 | | | | | |
|------------------------|-----------|-------------|-----------------|------|--------------------|----|----|------|-------|---|
| ISP | INSULPERM | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 1.00 | 3.90 | R |
| ISP | INSULPERM | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 2.00 | 7.80 | R |
| ISP | INSULPERM | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 4.00 | 16.00 | R |
| ISP | INSULPERM | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 5.00 | 20.00 | R |
| ISP | INSULPERM | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 6.00 | 24.00 | R |
| ISP | INSULPERM | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 7.00 | 28.00 | R |
| ISP | INSULPERM | POLYSTYRENE | SINGLE MATERIAL | NONE | ROOF DECK | NO | NO | 8.00 | 32.00 | R |

* DESCRIPTION OF BRAND CODES:
ISP = INSULPERM

BHGS - THERMAL INSULATION DIRECTORY RIGID STOCK INSULATION MANUFACTURERS

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? | Density Lbs per Cubic Foot | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------------------------------|--------------|--------------|-----------------|--------|-------------|------------------------------------|---------------------------|----------------------------|----------------------------------|-----------------------------|-----------------|
| Polyisocyanurate Rigid Stock | | | | | | | | | | | |
| Duna USA Inc. - T 1476 | | | | | | Updated 12/12/2011 | | | | | |
| COR | CORAFOAM P20 | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | YES | NO | --- | --- | 0.19 | K |

* DESCRIPTION OF BRAND CODES:
COR = CORAFOAM

| | | | | | | | | | | | |
|--------------------------------|---------------|--------------|-----------------|------|-----------|---------------------------|----|-----|-----|------|---|
| Johns Manville - T 1341 | | | | | | Updated 06/08/2020 | | | | | |
| TRY | TRYMER 25-50 | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | YES | NO | --- | --- | 0.19 | K |
| TRY | TRYMER 1800 | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | YES | NO | --- | --- | 0.19 | K |
| TRY | TRYMER 2000XP | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | YES | NO | --- | --- | 0.19 | K |
| TRY | TRYMER 2500 | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | YES | NO | --- | --- | 0.19 | K |
| TRY | TRYMER 3000 | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | YES | NO | --- | --- | 0.19 | K |
| TRY | TRYMER 4000 | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | YES | NO | --- | --- | 0.19 | K |
| TRY | TRYMER 6000 | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | YES | NO | --- | --- | 0.20 | K |
| TRY | TRYMER 200L | ISOCYANURATE | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | --- | --- | 0.19 | K |
| TRY | TRYMER 250L | ISOCYANURATE | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | --- | --- | 0.19 | K |
| TRY | TRYMER 350L | ISOCYANURATE | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | --- | --- | 0.19 | K |
| TRY | TRYMER 400L | ISOCYANURATE | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | --- | --- | 0.19 | K |

* DESCRIPTION OF BRAND CODES:
TRY = TRYMER

| | | | | | | | | | | | |
|---|------------|--------------|-----------------|------|------|---------------------------|----|-----|-----|------|---|
| Kingspan Insulation LLC - T 1538 | | | | | | Updated 08/24/2022 | | | | | |
| ISO | ISO-C1/2.0 | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | NO | NO | --- | --- | 0.18 | K |
| ISO | ISO-C1/2.5 | ISOCYANURATE | SINGLE MATERIAL | NONE | PIPE | NO | NO | --- | --- | 0.18 | K |

* DESCRIPTION OF BRAND CODES:
ISO = ISO-C1

| | | | | | | | | | | | |
|--|------------------------|-------------|-----------------|------|------|---------------------------|-----|------|-----|------|---|
| Polystyrene Rigid Stock | | | | | | | | | | | |
| DuPont de Nemours Inc. - T 1535 | | | | | | Updated 04/24/2020 | | | | | |
| XPS | PIPE INSULATION BILLET | POLYSTYRENE | SINGLE MATERIAL | NONE | PIPE | --- | YES | 1.60 | --- | 0.26 | K |

* DESCRIPTION OF BRAND CODES:

**BHGS - THERMAL INSULATION DIRECTORY
RIGID STOCK INSULATION MANUFACTURERS**

| Brand Code* | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? | Density Lbs per Cubic Foot | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|-------------|------------|----------|------|--------|-------------|------------------------------------|---------------------------|----------------------------|----------------------------------|-----------------------------|-----------------|
|-------------|------------|----------|------|--------|-------------|------------------------------------|---------------------------|----------------------------|----------------------------------|-----------------------------|-----------------|

XPS = EXTRUDED POLYSTYRENE FOAM

BHGS - THERMAL INSULATION DIRECTORY
FOIL INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? | Labeled Thermal Performance Heatflow Up | Labeled Thermal Performance Heatflow Down | Labeled Thermal Performance Heatflow Level | R, K or C Value |
|---|-------------------|-----------------|-----------------------|--------------|------------------------------------|---------------------------|---|---|--|-----------------|
| Reflective Foil | | | | | | | | | | |
| Coverttech Flexible Packaging A Division of Balcan Innovation Inc - T 1354 | | | | | | | Updated 12/09/2021 | | | |
| CVR | FOIL 1XBUBBLW FL | REFLECTIVE FOIL | FACED SINGLE MATERIAL | CLG WALL FLR | YES | YES | 5.3 | 10.6 | 6.8 | R |
| CVR | FOIL 2XBUBBLE FL | REFLECTIVE FOIL | FACED SINGLE MATERIAL | CLG WALL FLR | YES | YES | 5.3 | 10.6 | 6.8 | R |
| CVR | FR POLY1BUBBLE FL | REFLECTIVE FOIL | FACED SINGLE MATERIAL | CLG WALL FLR | NO | YES | 5.3 | 10.6 | 6.8 | R |
| CVR | FR POLY2BUBBLE FL | REFLECTIVE FOIL | FACED SINGLE MATERIAL | CLG WALL FLR | NO | YES | 5.3 | 10.6 | 6.8 | R |

* DESCRIPTION OF BRAND CODES:
CVR = COVERTECH FABRICATING

| | | | | | | | | | | |
|--|-----------------------------|-------------------|-----------|--------------|-----|-----|---------------------------|-------|------|---|
| Environmentally Safe Products Inc. - T 1281 | | | | | | | Updated 04/06/2023 | | | |
| ESP | HOUSEWRAP 4PFNS (1) | FOIL/PE FOAM/FOIL | COMPOSITE | WALL | NO | NO | --- | --- | 4.00 | R |
| ESP | LOW-E 4LFLT (1, 2) | FOIL/PE FOAM/FOIL | COMPOSITE | CLG WALL FLR | YES | YES | 7.55 | 11.00 | 7.75 | R |
| ESP | SLAB-SHIELD 4SFSB 4MSMB (3) | PE FM/FOIL/PE FM | COMPOSITE | FLOOR | NO | YES | --- | --- | 1.40 | R |
| ESP | THERMA-SHEET (4) | FOIL/PE FOAM/FOIL | COMPOSITE | ROOF | NO | YES | 4.00 | 9.00 | --- | R |

(1) = AVAILABLE in 4', 5', 6' widths

(2) = AVAILABLE with staple flange edges or EZ Seal edge

(3) = AVAILABLE in 4' widths only

(4) = When installed in systems without an airspace,
4LFLX (7/32") THERMA-SHEET has an R-Value of 1.03

* DESCRIPTION OF BRAND CODES:
ESP = ENVIRONMENTALLY SAFE PRODUCTS

| | | | | | | | | | | |
|--------------------------------------|------------|-------------------|--------|---------|-----|-----|---------------------------|-----|-----|---|
| Fi-Foil Company Inc. - T 1390 | | | | | | | Updated 12/16/2022 | | | |
| FFC | RBI SHIELD | REFLECTFOIL/FOIL | SYSTEM | CLG FLR | YES | YES | 16.0 | --- | --- | R |
| FFC | RBI SHIELD | REFLECTFOIL/WHITE | SYSTEM | CLG FLR | YES | YES | 12.0 | --- | --- | R |

* DESCRIPTION OF BRAND CODES:
FFC = FI-FOIL CO

| | | | | | | | | | | |
|--|----|---------------|--|--------------|-----|-----|---------------------------|-------|------|---|
| Innovative Insulation Inc. - T 1408 | | | | | | | Updated 06/14/2008 | | | |
| RXI | BP | BUBBLEPK/FOIL | <u>IN 2X4" APPLICATIONS</u> SINGLE MATERIAL | CLG WALL FLR | YES | YES | 5.0 | 10.08 | 6.55 | R |
| RXI | BP | BUBBLEPK/FOIL | <u>IN 2X6" APPLICATIONS</u> SINGLE MATERIAL | CLG WALL FLR | YES | YES | 5.16 | 11.71 | 6.65 | R |

Insulation "R" is for the Reflectix plus enclosed air spaces on both sides of the product.

* DESCRIPTION OF BRAND CODES:
RXI = REFLECTIX INC

BHGS - THERMAL INSULATION DIRECTORY
FOIL INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? | Labeled Thermal Performance Heatflow Up | Labeled Thermal Performance Heatflow Down | Labeled Thermal Performance Heatflow Level | R, K or C Value |
|-------------|------------|----------|------|-------------|------------------------------------|---------------------------|---|---|--|-----------------|
|-------------|------------|----------|------|-------------|------------------------------------|---------------------------|---|---|--|-----------------|

| International Insulation Products - T 1512 | | | | | Updated 05/12/2020 | | | | | |
|--|--------------------|-----------------|-----------|-----------|--------------------|-----|-----|------|-----|---|
| ESH | ESHIELD | REFLECTIVE FOIL | COMPOSITE | ROOF DECK | YES | YES | --- | 10.9 | --- | R |
| SCA | SOL-R-SKIN CLASS A | REFLECTIVE FOIL | COMPOSITE | ROOF DECK | YES | YES | --- | 5.5 | --- | R |
| SLE | SOLRECLIPSE | REFLECTIVE FOIL | COMPOSITE | ROOF DECK | YES | YES | --- | 10.7 | --- | R |

* DESCRIPTION OF BRAND CODES:

ESH = INTERNATIONAL INSULATION PRODUCTS

SCA = INTERNATIONAL INSULATION PRODUCTS

SLE = INTERNATIONAL INSULATION PRODUCTS

| M-D Building Products Inc - T 1120 | | | | | Updated 09/24/2024 | | | | | |
|------------------------------------|-------|-----------------|-----------------------|-------|--------------------|-----|-----|------|------|---|
| MD | 02394 | REFLECT FOIL/FM | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 0.12 | 0.40 | R |
| MD | 02378 | REFLECT FOIL/FM | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 0.12 | 0.40 | R |

* DESCRIPTION OF BRAND CODES:

MD = M-D BUILDING PRODUCTS

| Reflectix, Inc. - T 1543 | | | | | Updated 12/16/2021 | | | | | |
|--------------------------|------------|---------------|--|--------------|--------------------|-----|--------------------|-------|----------|---|
| RXI | BB060410V2 | BUBBLE/METAL | EXTERIOR WRAP | DUCT WRAP | YES | YES | --- | --- | ** 6.63 | R |
| RXI | BB060410V3 | BUBBLE/METAL | EXTERIOR WRAP | DUCT WRAP | YES | YES | --- | --- | *** 7.97 | R |
| RXI | BP | BUBBLEPK/FOIL | <u>IN 2X4" APPLICATIONS</u> SINGLE MATERIAL | CLG WALL FLR | YES | YES | 4.96 | 10.08 | 6.55 | R |
| RXI | BP | BUBBLEPK/FOIL | <u>IN 2X6" APPLICATIONS</u> SINGLE MATERIAL | CLG WALL FLR | YES | YES | 5.16 | 11.71 | 6.65 | R |
| RXI | DW | BUBBLEPK/FOIL | EXTERIOR WRAP | DUCT WRAP | YES | YES | --- | --- | ** 4.20 | R |
| RXI | DW | BUBBLEPK/FOIL | EXTERIOR WRAP | DUCT WRAP | YES | YES | --- | --- | *** 6.40 | R |
| RXI | LPW | BUBBLEPK/FOIL | SPIRAL PIPE WRAP | PIPE WRAP | YES | YES | NO R-VALUE CLAIMED | | | |

Insulation "R" is for the Reflectix plus enclosed air spaces on both sides of the product.

** Total R-value of duct with Reflectix attached directly to the outside duct. Measured by maintaining a 30° temperature difference.

*** R-value of duct with Reflectix installed with 3/4" airspace measured to ASTM 335 at 75° mean.

**BHGS - THERMAL INSULATION DIRECTORY
FOIL INSULATION MANUFACTURERS/PRIVATE LABELS**

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? | Labeled Thermal Performance Heatflow Up | Labeled Thermal Performance Heatflow Down | Labeled Thermal Performance Heatflow Level | R, K or C Value |
|-------------|------------|----------|------|-------------|------------------------------------|---------------------------|---|---|--|-----------------|
|-------------|------------|----------|------|-------------|------------------------------------|---------------------------|---|---|--|-----------------|

* DESCRIPTION OF BRAND CODES:
RXI = REFLECTIX INC

| Resisto - T 1469 | | | | | | Updated 09/13/2010 | | | | |
|------------------|------------|-----------------|-----------|--------------|-----|--------------------|-----|------|-----|---|
| AYR | AYRFOILM1M | REFLECTIVE FOIL | COMPOSITE | CLG WALL FLR | YES | YES | 5.4 | 14.6 | 6.7 | R |
| AYR | AYRFOILM1V | REFLECTIVE FOIL | COMPOSITE | CLG WALL FLR | YES | YES | 5.4 | 14.6 | 6.7 | R |
| AYR | AYRFOILM2M | REFLECTIVE FOIL | COMPOSITE | CLG WALL FLR | YES | YES | 5.4 | 14.6 | 6.7 | R |
| AYR | AYRFOILM2V | REFLECTIVE FOIL | COMPOSITE | CLG WALL FLR | YES | YES | 5.4 | 14.6 | 6.7 | R |

* DESCRIPTION OF BRAND CODES:
AYR = AYR-FOIL

BHGS - THERMAL INSULATION DIRECTORY
RADIANT BARRIER INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) |
|---|----------------------|-----------------|-----------------------|--------------|------------------------------------|--|
| Radiant Barrier | | | | | | |
| Coverttech Flexible Packaging A Division of Balcan Innovation Inc - T 1354 | | | | | Updated 12/09/2021 | |
| CVR | NT RAD BARRIER RFOIL | REFLECTIVE FOIL | FACED SINGLE MATERIAL | CLG WALL FLR | YES | YES |

* DESCRIPTION OF BRAND CODES:
CVR = COVERTECH FABRICATING

| | | | | | | |
|--------------------------------------|---------------------|------------------------------------|--------|---------|---------------------------|-----|
| Fi-Foil Company Inc. - T 1390 | | | | | Updated 11/14/2023 | |
| FFC | SILVERSHIELD RB | REFLECTIVE FOIL | SYSTEM | CEILING | YES | NO |
| FFC | RADIANT SHIELD | REFLECTIVE METALLIZED FILM | SYSTEM | CEILING | YES | NO |
| FFC | SKYFLEX | REFLECTIVE METALLIZED FILM (SOLID) | SYSTEM | CEILING | YES | YES |
| FFC | RF SHIELD | REFLECTIVE FOIL | SYSTEM | WALL | YES | NO |
| FFC | RF SHIELD | REFLECTIVE FOIL (SOLID) | SYSTEM | WALL | YES | YES |
| RGX | RADIANTGUARD XTREME | REFLECTIVE METALLIZED FILM | SYSTEM | CEILING | YES | NO |

* DESCRIPTION OF BRAND CODES:
FFC = FI-FOIL CO
RGX = RADIANTGUARD XTREME

| | | | | | | |
|--|-----------------|-----------------|-----------------|--------------|-------------------------|-----|
| Innovative Insulation Inc. - T 1408 | | | | | Updated 07/10/17 | |
| RXI | RADIANT BARRIER | REFLECTIVE FOIL | SINGLE MATERIAL | CLG WALL FLR | YES | NO |
| SPR | RADIANT BARRIER | REFLECTIVE FOIL | SINGLE MATERIAL | CLG WALL FLR | YES | NO |
| SPR | RADIANT BARRIER | REFLECTIVE FOIL | SINGLE MATERIAL | CLG WALL FLR | YES | YES |

* DESCRIPTION OF BRAND CODES:
RXI = REFLECTIX INC
SPR = SUPER-R

| | | | | | | |
|------------------------------------|------|-----------------|-----------------|-----------|---------------------------|-----|
| Insul-Quilts, Inc. - T 1522 | | | | | Updated 10/21/2020 | |
| IQ | RBF | REFLECTIVE FOIL | SINGLE MATERIAL | ROOF DECK | YES | YES |
| IQ | RBGB | REFLECTIVE FOIL | SINGLE MATERIAL | ROOF DECK | YES | YES |
| IQ | RBS | REFLECTIVE FOIL | SINGLE MATERIAL | ROOF DECK | YES | NO |

BHGS - THERMAL INSULATION DIRECTORY
RADIANT BARRIER INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) |
|-------------|------------|----------|------|-------------|------------------------------------|--|
|-------------|------------|----------|------|-------------|------------------------------------|--|

* DESCRIPTION OF BRAND CODES:
 IQ = Insul-Quilts Inc.

| International Insulation Products - T 1512 | | | | | Updated 05/12/2020 | |
|--|----------------------|-----------------|--------|-----------|--------------------|-----|
| SSC | SOL-R-SKIN COMPOSITE | REFLECTIVE FOIL | SYSTEM | ROOF DECK | YES | YES |

* DESCRIPTION OF BRAND CODES:
 SSC = INTERNATIONAL INSULATION PRODUCTS

| Lamtec Corporation - T 1489 | | | | | Updated 03/29/2018 | |
|-----------------------------|------------|-----------------|-----------------|-----------|--------------------|-----|
| LAM | 30J | REFLECTIVE FOIL | SINGLE MATERIAL | ROOF DECK | YES | YES |
| LAM | FSKF | REFLECTIVE FOIL | SINGLE MATERIAL | ROOF DECK | YES | YES |
| LAM | R-3035 | REFLECTIVE FOIL | SINGLE MATERIAL | ROOF DECK | YES | YES |
| LAM | WHITE FSKF | REFLECTIVE FOIL | SINGLE MATERIAL | ROOF DECK | YES | YES |
| LAM | WMP-ASJ | REFLECTIVE FOIL | SINGLE MATERIAL | ROOF DECK | YES | YES |

* DESCRIPTION OF BRAND CODES:
 LAM = LAMTEC

| Service Partners LLC - T 1516 | | | | | Updated 11/05/2020 | |
|-------------------------------|-----------------|-----------------|-----------------|--------------|--------------------|-----|
| AFS | ALUMA-FOIL HD | REFLECTIVE FOIL | SINGLE MATERIAL | CLG WALL FLR | YES | NO |
| AFS | ALUMA-FOIL PLUS | REFLECTIVE FOIL | SINGLE MATERIAL | CLG WALL FLR | YES | NO |
| AFS | ALUMA-FOIL RB | REFLECTIVE FOIL | SINGLE MATERIAL | CLG WALL FLR | YES | YES |
| AFS | FSKF/WHITE PW | REFLECTIVE FOIL | SINGLE MATERIAL | ROOF DECK | YES | YES |

(PB = PAINTED BLACK) (PW = PAINTED WHITE)

* DESCRIPTION OF BRAND CODES:
 AFS = ADVANCED FOIL SYSTEMS

**BHGS - THERMAL INSULATION DIRECTORY
FOAM & SPRAY INSULATION MANUFACTURERS**

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Thermal Performance per Inch | R, K or C Value |
|--|--------------------|-----------|-----------------|--------------|------------------------------------|--|--------------------------------------|-----------------|
| Cellulose Spray or Field Applied | | | | | | | | |
| Applegate Greenfiber Aquisition, LLC - T 1548 | | | | | Updated 09/15/2022 | | | |
| CC | STABILIZED BLENDED | CELLULOSE | SINGLE MATERIAL | CEILING | NO | NO | 3.70 | R |
| CC | STABILIZED BORATE | CELLULOSE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.70 | R |
| SANC | SANCTUARY | CELLULOSE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.70 | R |

NOTE: The above product is not intended to be used in applications where it is exposed on the interior of walls and ceilings.

* DESCRIPTION OF BRAND CODES:
CC = COCOON
SANC = SANCTUARY

| | | | | | | | | |
|--|--------------|-----------|-----------------|------|---------------------------|----|------|---|
| Mountain Fiber Insulation Inc. - T 1405 | | | | | Updated 03/19/2009 | | | |
| MFI | 758164000229 | CELLULOSE | SINGLE MATERIAL | WALL | YES | NO | 3.70 | R |

* DESCRIPTION OF BRAND CODES:
MFI = MOUNTAIN FIBER INSULATION

| | | | | | | | | |
|---|-------------|-------------|--------|------|---------------------------|----|--------|---|
| Mineral Fiber Spray or Field Applied | | | | | | | | |
| Johns Manville - T 1039 | | | | | Updated 05/18/2020 | | | |
| JM | SPIDER PLUS | FIBER GLASS | SINGLE | WALL | NO | NO | 4.0** | R |
| JM | SPIDER PLUS | FIBER GLASS | SINGLE | WALL | NO | NO | 4.3*** | R |

* DESCRIPTION OF BRAND CODES:
JM = JOHNS MANVILLE

** = installed at a density of 1.5 lbs/ft³

*** = installed at a density of 1.8 lbs/ft³

| | | | | | | | | |
|--|-----------------|----------|-----------------|------|---------------------------|----|---------|---|
| Polyurethane Spray or Field Applied | | | | | | | | |
| BASF Corporation - T 1153 | | | | | Updated 10/01/2020 | | | |
| BSF | AUTOFROTH 1704 | URETHANE | SINGLE MATERIAL | WALL | NO | NO | 0.15 ** | K |
| BSF | ELASTOPOR 19087 | URETHANE | SINGLE MATERIAL | WALL | NO | NO | 0.15 ** | K |
| BSF | ELASTOPOR 52210 | URETHANE | SINGLE MATERIAL | WALL | NO | NO | 0.15 ** | K |
| BSF | ELASTOPOR 52480 | URETHANE | SINGLE MATERIAL | WALL | NO | NO | 0.15 ** | K |
| BSF | ELASTOPOR 52490 | URETHANE | SINGLE MATERIAL | WALL | NO | NO | 0.15 ** | K |

** = Initial K-Values

* DESCRIPTION OF BRAND CODES:
BSF = BASF CORP.

**BHGS - THERMAL INSULATION DIRECTORY
FOAM & SPRAY INSULATION MANUFACTURERS**

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Thermal Performance per Inch | R, K or C Value |
|-------------|------------|----------|------|-------------|------------------------------------|--|--------------------------------------|-----------------|
|-------------|------------|----------|------|-------------|------------------------------------|--|--------------------------------------|-----------------|

| BASF Corporation (Spray-Applied PUF) - T 1423 | | | | | Updated 10/29/2024 | | | |
|---|----------------|----------|--------|--------------|--------------------|--------|------|---|
| BSF | ENERTITE G | URETHANE | SYSTEM | CLG WALL FLR | YES**** | NO | 3.90 | R |
| BSF | ENERTITE MAX | URETHANE | SYSTEM | CLG WALL FLR | YES**** | NO | 3.90 | R |
| BSF | ENERTITE X | URETHANE | SYSTEM | CLG WALL FLR | YES**** | NO | 4.10 | R |
| BSF | SKYTITE C3 2.5 | URETHANE | SYSTEM | ROOF DECK | YES**** | YES** | 6.20 | R |
| BSF | SKYTITE C3 2.8 | URETHANE | SYSTEM | ROOF DECK | YES**** | YES** | 6.20 | R |
| BSF | SKYTITE C3 3.0 | URETHANE | SYSTEM | ROOF DECK | YES**** | YES** | 6.20 | R |
| BSF | WALLTITE LWP | URETHANE | SYSTEM | CLG WALL FLR | YES**** | YES*** | 6.90 | R |
| BSF | WALLTITE MAX | URETHANE | SYSTEM | CLG WALL FLR | YES**** | YES*** | 7.40 | R |
| BSF | WALLTITE ONE | URETHANE | SYSTEM | CLG WALL FLR | YES**** | YES*** | 7.50 | R |

* DESCRIPTION OF BRAND CODES:

BSF = BASF CORP.

**-Permeance <1.0 Perm at thickness >= 1.0 in.

***-Permeance <1.0 Perm at thickness >= 1.5 in.

****-Per applicable code and testing

2013 California Building Code Sec. 2603.4.1 and Sec. 2603.1

2013 California Residential Code Sec. R316.5 and Sec. R316.6

ICC Evaluation Service Acceptance Criteria for Spray-applied Insulation (AC377), Appendix X

ICC 1100-2019 Standard for Spray-Applied Polyurethane Foam Plastic

| Carlisle Roof Foam and Coatings - T 1513 | | | | | Updated 02/20/2024 | | | |
|--|-------------------------|----------|-----------------|--------------|--------------------|-------|------|---|
| ACC | SEALTITE PRO HFO | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | YES** | 7.20 | R |
| BAY | FOAMSULATE HFO 2.0 | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | YES** | 7.20 | R |
| BAY | SEALTITE PRO OPEN CELL | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.90 | R |
| PSP | FOAMSULATE 50 | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.70 | R |
| PSP | SEALTITE PRO NO MIX | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.70 | R |
| QF | FOAMSULATE HY | URETHANE | SINGLE MATERIAL | CLG WALL FLR | YES | NO | 3.60 | R |
| QF | FOAMSULATE OCX | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.70 | R |
| QF | SEALTITE PRO OCX | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.70 | R |
| QF | SEALTITE PRO HIGH YIELD | URETHANE | SINGLE MATERIAL | CLG WALL FLR | YES | NO | 3.60 | R |

**Materials have less than 1 perm at thickness greater than 1 inch for SEALTITE PRO HFO and FOAMSULATE HFO 2.0

* DESCRIPTION OF BRAND CODES:

ACC = ACCELLA

BAY = BAYSEAL

PSP = PREMIUM SPRAY PRODUCTS

QF = QUADFOAM

| Creative Polymer Solutions, LLC. - T 1549 | | | | | Updated 12/06/2022 | | | |
|---|-------------------|----------|-----------|--------------|--------------------|----|------|---|
| AFOC | ACCUFOAM™ OC | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 3.70 | R |
| AFCF | ACCUFOAM™ CC-HFO | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 7.50 | R |
| AFCR | ACCUFOAM™ CCR-HFO | URETHANE | COMPOSITE | ROOF DECK | NO | NO | 7.00 | R |

* DESCRIPTION OF BRAND CODES:

**BHGS - THERMAL INSULATION DIRECTORY
FOAM & SPRAY INSULATION MANUFACTURERS**

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Thermal Performance per Inch | R, K or C Value |
|-------------|------------|----------|------|-------------|------------------------------------|--|--------------------------------------|-----------------|
|-------------|------------|----------|------|-------------|------------------------------------|--|--------------------------------------|-----------------|

AFOC = ACCUFOAM™ OC
AFCC = ACCUFOAM™ CC-HFO
AFCR = ACCUFOAM™ CCR-HFO

| DAP Global Inc. - T 1343 | | | | | Updated 11/28/2023 | | | |
|--------------------------|------------------------------|----------|-----------|--------------|--------------------|-----|------|---|
| DGI | ALL-PURPOSE GF | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 5.40 | R |
| DGI | ASGF 24OZ | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 5.40 | R |
| DGI | BARRIER | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.10 | R |
| DGI | BLACK - RV 24OZ | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 5.40 | R |
| DGI | FOAMKIT 110/200/600/750/HVAC | URETHANE | COMPOSITE | CLG WALL FLR | NO | YES | 6.60 | R |
| DGI | FOAMKIT 300/1000/CP1200FR | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.10 | R |
| DGI | GFII FIREBLOCK | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 5.40 | R |
| DGI | HOMESEAL | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 5.40 | R |
| DGI | MAXFILL-QC 12/24OZ | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.10 | R |
| DGI | MOUSHIELD | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.10 | R |
| DGI | NOWARP 12/16/20OZ | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 5.40 | R |
| DGI | QC 10/16LB LGWP | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.10 | R |
| DGI | REFILL 17/60/120GAL | URETHANE | COMPOSITE | CLG WALL FLR | NO | YES | 6.20 | R |
| DGI | W&C 20OZ, 10/20/23LB | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.10 | R |

* DESCRIPTION OF BRAND CODES:
DGI = DAP GLOBAL INC.

| DuPont de Nemours Inc. - T 1536 | | | | | Updated 04/21/2020 | | | |
|---------------------------------|------------|----------|-----------------|--------------|--------------------|----|------|---|
| FP | FROTH-PAK | URETHANE | SINGLE MATERIAL | CLG WALL FLR | --- | NO | 6.00 | R |
| PF | DOWGSP24OZ | URETHANE | SINGLE MATERIAL | CLG WALL FLR | --- | NO | 3.60 | R |

* DESCRIPTION OF BRAND CODES:
FP = FROTH-PAK
PF = DOWGSP24OZ

| Franklin International - T 1525 | | | | | Updated 10/03/2023 | | | |
|---------------------------------|--|----------|-----------|--------------|--------------------|----|------|---|
| TB | WEATHERMASTER X-TREME FIREBLOCK FOAM SEALANT | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.50 | R |
| TB | WEATHERMASTER X-TREME MULTI-PURPOSE FOAM SEALANT | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.70 | R |
| TB | WEATHERMASTER X-TREME WINDOW & DOOR FOAM SEALANT | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.70 | R |

* DESCRIPTION OF BRAND CODES:
TB= TITEBOND

**BHGS - THERMAL INSULATION DIRECTORY
FOAM & SPRAY INSULATION MANUFACTURERS**

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Thermal Performance per Inch | R, K or C Value |
|--|-------------------------------|----------|-----------|--------------|------------------------------------|--|--------------------------------------|-----------------|
| General Coatings Manufacturing Corporation - T 1491 | | | | | Updated 11/14/2023 | | | |
| ULT | ULTRA-THANE 050 | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 3.90 | R |
| ULT | ULTRA-THANE 205 HFO | URETHANE | COMPOSITE | CLG WALL FLR | NO | YES** | 7.60 | R |
| ULT | ULTRA-THANE 205 HFO HIGH LIFT | URETHANE | COMPOSITE | CLG WALL FLR | NO | YES** | 7.90 | R |
| ULT | ULTRA-THANE 230 | URETHANE | COMPOSITE | CLG WALL FLR | NO | YES** | 6.49 | R |
| ULT | ULTRA-THANE 230 | URETHANE | COMPOSITE | ROOF DECK | NO | NO | 6.70 | R |
| ULT | ULTRA-THANE 230 HFO | URETHANE | COMPOSITE | ROOF DECK | NO | NO | 6.90 | R |
| ULT | ULTRA-THANE OCX | URETHANE | COMPOSITE | CLG WALL FLR | YES | NO | 4.10 | R |
| UPC | UPC-500 | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 3.90 | R |
| UPC | UPC-500 OCX | URETHANE | COMPOSITE | CLG WALL FLR | YES | NO | 4.10 | R |
| UPC | UPC-2.0 | URETHANE | COMPOSITE | CLG WALL FLR | NO | YES** | 6.80 | R |
| UPC | UPC 2.0 HFO | URETHANE | COMPOSITE | CLG WALL FLR | NO | YES** | 7.60 | R |
| UPC | UPC 2.0 HFO HIGH LIFT | URETHANE | COMPOSITE | CLG WALL FLR | NO | YES** | 7.90 | R |

**AT A MINIMUM OF 1.8 INCHES THESE PRODUCTS HAVE A PERM RATING OF 1 OR LESS.

* DESCRIPTION OF BRAND CODES:

ULT = ULTRATHANE

UPC = UNIVERSAL POLYMERS CORPORATION

| | | | | | | | | |
|---|-------------------|----------|-----------------|-----------|---------------------------|-----|------|---|
| Green Shield Products, LLC. - T 1552 | | | | | Updated 02/22/2024 | | | |
| GSP | GREENSEAL 2.5 HFO | URETHANE | SINGLE MATERIAL | ROOF DECK | NO | YES | 6.80 | R |
| GSP | GREENSEAL 2.8 HFO | URETHANE | SINGLE MATERIAL | ROOF DECK | NO | YES | 6.80 | R |
| GSP | GREENSEAL 3.0 HFO | URETHANE | SINGLE MATERIAL | ROOF DECK | NO | YES | 6.80 | R |

* DESCRIPTION OF BRAND CODES:

GSP = GREEN SHIELD PRODUCTS

| | | | | | | | | |
|--|----------------|----------|-----------------|-----------|---------------------------|-----|------|---|
| Henry A Carlisle Company - T 1228 | | | | | Updated 02/20/2024 | | | |
| ACC | PREMIR+ EVO 40 | URETHANE | SINGLE MATERIAL | ROOF DECK | NO | YES | 6.80 | R |
| ACC | PREMIR+ EVO 60 | URETHANE | SINGLE MATERIAL | ROOF DECK | NO | YES | 6.80 | R |
| ACC | PREMIR+ EVO 70 | URETHANE | SINGLE MATERIAL | ROOF DECK | NO | YES | 6.80 | R |

* DESCRIPTION OF BRAND CODES:

ACC = ACCELLA

| | | | | | | | | |
|---|-----------------|----------|-----------------|--------------|---------------------------|-----|------|---|
| Huntsman Building Solutions USA LLC - T 1499 | | | | | Updated 04/18/2024 | | | |
| APX | DEMILEC APX | URETHANE | SYSTEM | ROOF DECK | NO | YES | 3.70 | R |
| ECO | PROSEAL ECO | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | YES | 4.90 | R |
| HLH | HEATLOK HFO PRO | URETHANE | SYSTEM | CLG WALL FLR | YES | YES | 7.40 | R |
| HLX | HEATLOK XT S | URETHANE | SYSTEM | CLG WALL FLR | YES | YES | 6.70 | R |

**BHGS - THERMAL INSULATION DIRECTORY
FOAM & SPRAY INSULATION MANUFACTURERS**

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Thermal Performance per Inch | R, K or C Value |
|-------------|--------------------|----------|-----------------|--------------|------------------------------------|--|--------------------------------------|-----------------|
| HLX | HEATLOK XT W | URETHANE | SYSTEM | CLG WALL FLR | YES | YES | 6.90 | R |
| HPL | HEATLOK PLUS | URETHANE | SYSTEM | CLG WALL FLR | YES | YES | 6.80 | R |
| IC7 | ICYNENE CLASSIC 75 | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 4.00 | R |
| ICY | ICYNENE CLASSIC 45 | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.70 | R |
| IH8 | ICYNENE HIGH-R 80 | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 4.50 | R |
| IHM | ICYNENE HFO MAX | URETHANE | SYSTEM | CLG WALL FLR | YES | YES | 7.50 | R |
| INM | ICYNENE OC NO-MIX | URETHANE | SYSTEM | WALL | NO | NO | 3.80 | R |
| IU5 | ICYNENE ULTRA 50 | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 3.81 | R |
| IXS | ICYNENE XPRESS 55 | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 3.66 | R |
| LDR | CLASSIC ECO | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.70 | R |
| LPI | FL 2000 | URETHANE | SYSTEM | WALL | NO | YES | 6.30 | R |
| LPI | FL 2000-4G | URETHANE | SYSTEM | WALL | NO | YES | 6.80 | R |
| MAX | CLASSIC MAX | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 3.70 | R |
| MDC | MDC-200 | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | YES | 6.10 | R |
| MDR | MDR-210 | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | YES** | 4.90 | R |
| V3 | PROSEAL | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | YES | 7.00 | R |

** AT 2.3 INCH THICKNESS

* DESCRIPTION OF BRAND CODES:

APX = DEMILEC APX

ECO = PROSEAL ECO

HLH = HEATLOK HFO

HLX = HEATLOK XT

HPL = HEATLOK PLUS

IC7 = ICYNENE CLASSIC 75

ICY = ICYNENE CLASSIC 45

IH8 = ICYNENE HIGH-R 80

IHM = ICYNENE HFO MAX

INM = ICYNENE OC NO-MIX

IU5 = ICYNENE ULTRA 50

IXS = ICYNENE XPRESS

LDR = ICYNENE LD-R

LPI = LAPOLLA INDUSTRIES

MAX = CLASSIC MAX

MDC = MDC

MDR = MDR

V3 = PROSEAL

| ICP Building Solutions Group - T 1540 | | | | Updated 05/03/2023 | | | | |
|---------------------------------------|------------------|----------|-----------------|--------------------|---------|--------|------|---|
| HF | CV HFO | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 6.40 | R |
| HF | E84 HFO | URETHANE | SYSTEM | CLG WALL FLR | YES** | NO | 6.10 | R |
| HF | E84 LP | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 6.00 | R |
| AP | FOAM SYSTEM | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 6.44 | R |
| HF | FR HFO | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 6.44 | R |
| HF | HC SEALANTS | URETHANE | SINGLE MATERIAL | CLG WALL FLR | NO | NO | 4.70 | R |
| HF | HIGH DENSITY | URETHANE | SYSTEM | ROOF PATCH | NO | NO | 5.20 | R |
| HF | HVLP LD 0.5 | URETHANE | SYSTEM | CLG WALL FLR | YES**** | NO | 3.90 | R |
| HF | HVLP MD 2.0 | URETHANE | SYSTEM | CLG WALL FLR | YES**** | YES*** | 6.90 | R |
| HF | HVLP MD 2.0 HFO | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 7.20 | R |
| HF | HVLP MDW 2.0 HFO | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 7.20 | R |
| HF | HVLP HFO 2.0 | URETHANE | SYSTEM | CLG WALL FLR | YES**** | YES*** | 6.90 | R |

**BHGS - THERMAL INSULATION DIRECTORY
FOAM & SPRAY INSULATION MANUFACTURERS**

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Thermal Performance per Inch | R, K or C Value |
|-------------|----------------|----------|--------|--------------|------------------------------------|--|--------------------------------------|-----------------|
| HF | LOW DENSITY LP | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 4.30 | R |

* DESCRIPTION OF BRAND CODES:

HF = HANDI-FOAM AP = APOC

** -at Roof/Wall junctures exposed at 2 inch thickness x 6 inch depth unlimited length.

*** -Permeance <1.0 Perm at thickness >= 1.5 in.

**** -Per applicable code and testing

2013 California Building Code Sec. 2603.4.1 and Sec. 2603.1

2013 California Residential Code Sec. R316.5 and Sec. R316.6

ICC Evaluation Service Acceptance Criteria for Spray-applied Insulation (AC377), Appendix X

| Johns Manville - T 1468 | | | | | Updated 11/02/2023 | | | |
|-------------------------|----------------------|----------|--------|--------------|--------------------|-----|------|---|
| JMC | JM CORBOND HY OC SPF | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 3.60 | R |
| JMC | JM CORBOND IV | URETHANE | SYSTEM | CLG WALL FLR | YES* | YES | 7.00 | R |
| JMC | JM CORBOND OC SPF | URETHANE | SYSTEM | CLG WALL FLR | NO | NO | 3.80 | R |

* DESCRIPTION OF BRAND CODES:

JMC = JMCCORBOND

* Does not need an ignition barrier in unoccupied attics or crawl spaces

| Natural Polymers LLC - T 1539 | | | | | Updated 10/12/2021 | | | |
|-------------------------------|------------|----------|--------|--------------|--------------------|----|------|---|
| NT | NT0 | URETHANE | SYSTEM | CLG WALL FLR | YES | NO | 6.30 | R |
| NT | NT05 | URETHANE | SYSTEM | CLG WALL FLR | YES | NO | 3.70 | R |
| NT | NT05IB | URETHANE | SYSTEM | CLG WALL FLR | YES | NO | 3.70 | R |
| NT | NT10 | URETHANE | SYSTEM | CLG WALL FLR | YES | NO | 4.90 | R |
| NT | NT20HFOIBW | URETHANE | SYSTEM | CLG WALL FLR | YES | NO | 7.20 | R |
| NT | NTL | URETHANE | SYSTEM | CLG WALL FLR | YES | NO | 3.70 | R |

* DESCRIPTION OF BRAND CODES:

NT=Natural-Therm

| NCFI Polyurethanes - T 1401 | | | | | Updated 10/28/2021 | | | |
|-----------------------------|-------------|--------------|-----------------|--------------|--------------------|-----|------|---|
| END | NCFI 10-011 | POLYURETHANE | SINGLE MATERIAL | ROOF DECK | NO | YES | 6.90 | R |
| END | NCFI 10-013 | POLYURETHANE | SINGLE MATERIAL | ROOF DECK | NO | YES | 6.80 | R |
| END | NCFI 10-016 | POLYURETHANE | SINGLE MATERIAL | ROOF DECK | NO | YES | 6.10 | R |
| INS | INSULSTAR | POLYURETHANE | SINGLE MATERIAL | CLG WALL FLR | YES | YES | 6.80 | R |
| INS | NCFI 11-016 | POLYURETHANE | SINGLE MATERIAL | CLG WALL FLR | YES | YES | 6.40 | R |
| INS | NCFI 11-033 | POLYURETHANE | SINGLE MATERIAL | CLG WALL FLR | YES | YES | 6.70 | R |
| INS | NCFI 11-036 | POLYURETHANE | SINGLE MATERIAL | CLG WALL FLR | YES | YES | 6.90 | R |
| INS | NCFI 11-037 | POLYURETHANE | SINGLE MATERIAL | CLG WALL FLR | YES | YES | 6.90 | R |
| SEA | NCFI 12-008 | POLYURETHANE | SINGLE MATERIAL | CLG WALL FLR | YES | NO | 3.80 | R |

**BHGS - THERMAL INSULATION DIRECTORY
FOAM & SPRAY INSULATION MANUFACTURERS**

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Thermal Performance per Inch | R, K or C Value |
|-------------|------------|--------------|-----------------|--------------|------------------------------------|--|--------------------------------------|-----------------|
| T/I | INSULBLOC | POLYURETHANE | SINGLE MATERIAL | CLG WALL FLR | YES | YES | 6.40 | R |

* DESCRIPTION OF BRAND CODES:
 END = ENDURATECH SEA = SEALITE
 INS = INSULSTAR T/I = THERMALSTOP/INSULBLOC

| Polyglass USA - T 1529 | | | | | Updated 11/14/2023 | | | |
|------------------------|-------------|----------|-----------|-----------|--------------------|----|------|---|
| PPF | POLYPUF H-1 | URETHANE | COMPOSITE | ROOF DECK | NO | NO | 6.90 | R |
| PPF | POLYPUF RG | URETHANE | COMPOSITE | ROOF DECK | NO | NO | 6.62 | R |

* DESCRIPTION OF BRAND CODES:
 PPF = POLYPUF RG

| Quadrant Performance Materials, LLC - T 1553 | | | | | Updated 12/12/2024 | | | |
|--|----------------------------|----------|--------|--------------|--------------------|-----|------|---|
| QPOC | ENVIROSEAL OC PLATINUM | URETHANE | SYSTEM | CLG WALL FLR | NO | YES | 3.80 | R |
| QPOX | ENVIROSEAL OCX PLATINUM | URETHANE | SYSTEM | CLG WALL FLR | NO | YES | 3.70 | R |
| QPCC | ENVIROSEAL CC PLATINUM MAX | URETHANE | SYSTEM | CLG WALL FLR | YES | NO | 7.20 | R |

* DESCRIPTION OF BRAND CODES:
 QPOC: QUADRANT PERFORMANCE OPEN CELL
 QPOX: QUADRANT PERFORMANCE OPEN CELL X
 QPCC: QUADRANT PERFORMANCE CLOSED CELL

| Rhino Linings Corporation - T 1490 | | | | | Updated 11/22/2023 | | | |
|------------------------------------|-----------------------|----------|--------|--------------|--------------------|-----|------|---|
| TGC | THERMAL GUARD CC2 ECO | URETHANE | SINGLE | CLG WALL FLR | NO | YES | 6.00 | R |
| TGO | THERMAL GUARD OC 1 | URETHANE | SINGLE | CLG WALL FLR | NO | YES | 4.70 | R |
| TGO | THERMAL GUARD OC 500 | URETHANE | SINGLE | CLG WALL FLR | NO | YES | 3.50 | R |

* DESCRIPTION OF BRAND CODES:
 TGC = THERMAL GUARD CLOSED CELL
 TGO = THERMAL GUARD OPEN CELL

| SWD Urethane Company - T 1031 | | | | | Updated 12/28/2021 | | | |
|-------------------------------|-------------------|----------|-----------------|--------------|--------------------|-----|------|---|
| SWD | QUIK-SHIELD 100X | URETHANE | SINGLE MATERIAL | CLG WALL FLR | --- | NO | 3.70 | R |
| SWD | QUIK-SHIELD 104EZ | URETHANE | SINGLE MATERIAL | CLG WALL FLR | --- | NO | 3.90 | R |
| SWD | QUIK-SHIELD 106 | URETHANE | SINGLE MATERIAL | CLG WALL FLR | --- | NO | 3.70 | R |
| SWD | QUIK-SHIELD 108 | URETHANE | SINGLE MATERIAL | CLG WALL FLR | --- | NO | 3.60 | R |
| SWD | QUIK-SHIELD 144 | URETHANE | SINGLE MATERIAL | CLG WALL FLR | --- | YES | 7.50 | R |
| SWD | QUIK-SHIELD 155 | URETHANE | SINGLE MATERIAL | ROOF DECK | --- | NO | 5.00 | R |

**BHGS - THERMAL INSULATION DIRECTORY
FOAM & SPRAY INSULATION MANUFACTURERS**

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Thermal Performance per Inch | R, K or C Value |
|-------------|------------|----------|------|-------------|------------------------------------|--|--------------------------------------|-----------------|
|-------------|------------|----------|------|-------------|------------------------------------|--|--------------------------------------|-----------------|

* DESCRIPTION OF BRAND CODES:
SWD = SOUTHWEST DISTRIBUTING

| Tiger Foam Insulation - T 1528 | | | | | Updated 06/29/2021 | | | |
|--------------------------------|----------------------|----------|-----------|--------------|--------------------|----|------|---|
| TF | TIGERFOAM FAST RISE | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 6.00 | R |
| TF | TIGERFOAM OPEN CELL | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 4.30 | R |
| TF | TIGERFOAM QUICK CURE | URETHANE | COMPOSITE | CLG WALL FLR | NO | NO | 6.00 | R |

* DESCRIPTION OF BRAND CODES:
TF = TIGERFOAM

BHGS - THERMAL INSULATION DIRECTORY
LOOSE FILL INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Design Density Lbs per Cubic Foot | Labeled Thermal Performance per Inch | |
|---|-------------------------|-----------|-----------------|--------------|------------------------------------|--|-----------------------------------|--------------------------------------|---|
| Cellulose Fiber Loose Fill | | | | | | | | | |
| Applegate Greenfiber Aquisition, LLC - T 1548 | | | | | Updated 09/24/2024 | | | | |
| APP | 02-APPLEGATE BORA SPRAY | CELLULOSE | SINGLE MATERIAL | CLG WALL FLR | NO | YES | 1.50 | 3.50 | R |
| APP | 04-APPLE LOOSEFILL | CELLULOSE | SINGLE MATERIAL | CLG WALL FLR | NO | YES | 1.50 | 3.50 | R |
| APP | 05-APPLE STABILIZED | CELLULOSE | SINGLE MATERIAL | CLG WALL FLR | NO | YES | 1.60 | 3.60 | R |
| APP | 18-T.A.P. | CELLULOSE | SINGLE MATERIAL | CLG WALL FLR | NO | YES | 1.70 | 3.60 | R |
| SP | SANCTUARY DEFENSE | CELLULOSE | SINGLE MATERIAL | CLG | NO | NO | 1.50 | 3.70 | R |
| SANC | SANCTUARY | CELLULOSE | SINGLE MATERIAL | CLG WALL FLR | NO | YES | 1.50 | 3.70 | R |

* DESCRIPTION OF BRAND CODES:
 APP = APPLGATE INSULATION SYSTEMS, LLC
 SP = SUPREME PLUS
 SANC = SANCTUARY

| | | | | | | | | | |
|--|--------------|-----------|-----------------|--------------|-----|--------------------------|------|------|---|
| Mountain Fiber Insulation Inc. - T 1405 | | | | | | Updated 3/19/2009 | | | |
| MFI | 758164000441 | CELLULOSE | SINGLE MATERIAL | CLG WALL FLR | YES | NO | 1.60 | 3.70 | R |

* DESCRIPTION OF BRAND CODES:
 MFI = MOUNTAIN FIBER INSULATION

| | | | | | | | | | |
|--|----------------|-------------|-----------------|----------|-----|---------------------------|------|------|---|
| Mineral Fiber Loose Fill | | | | | | | | | |
| Certaiteed Corporation - T 1023 | | | | | | Updated 10/20/2024 | | | |
| CT | INSULSAFE SP | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.47 | 2.55 | R |
| CT | INSULSAFE SP | FIBER GLASS | SINGLE MATERIAL | WALL FLR | NO | NO | 1.60 | 4.00 | R |
| CT | INSULSAFE SP | FIBER GLASS | SINGLE MATERIAL | WALL FLR | NO | NO | 2.30 | 4.24 | R |
| CT | OPTIMA | FIBER GLASS | SINGLE MATERIAL | WALL | NO | NO | 1.60 | 4.06 | R |
| CT | OPTIMA | FIBER GLASS | SINGLE MATERIAL | WALL FLR | NO | NO | 1.80 | 4.20 | R |
| CT | ULTRATHERM | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.60 | 2.35 | R |
| CT | ULTRATHERM S&R | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 1.00 | 2.80 | R |

* DESCRIPTION OF BRAND CODES:
 CT = CERTAITEED

BHGS - THERMAL INSULATION DIRECTORY
LOOSE FILL INSULATION MANUFACTURERS/PRIVATE LABELS

| Brand Code* | Product ID | Material | Type | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Design Density Lbs per Cubic Foot | Labeled Thermal Performance per Inch |
|--------------------------------|---------------------------------|-------------|-----------------|-------------|------------------------------------|--|-----------------------------------|--------------------------------------|
| Johns Manville - T 1039 | | | | | Updated 10/28/2021 | | | |
| JM | ATTIC PROTECTOR | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.38 | 2.42 R |
| JM | B-770 HIGH DENSITY BLOWING WOOL | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.97 | 2.29 R |
| JM | CLIMATE PRO BW | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.41 | 2.78 R |
| JM | CLIMATE PRO MH | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.87 | 3.53 R |

*DESCRIPTION OF BRAND CODES:

JM = JOHNS MANVILLE

| | | | | | | | | |
|----------------------------------|-------------------------|-------------|-----------------|---------|---------------------------|----|------|--------|
| Knauf Insulation - T 1002 | | | | | Updated 01/07/2021 | | | |
| KNF | BROWN LABEL | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.55 | 2.40 R |
| KNF | ECOFILL WX | FIBER GLASS | SINGLE MATERIAL | WALL | NO | NO | 2.00 | 4.20 R |
| KNF | ECOFILL WX | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.51 | 2.89 R |
| KNF | JETSPRAY THERMAL | FIBER GLASS | SINGLE MATERIAL | WALL | NO | NO | 2.00 | 4.00 R |
| KNF | JET STREAM ULTRA | FIBER GLASS | SINGLE MATERIAL | WALL | NO | NO | 1.80 | 4.20 R |
| KNF | JET STREAM ULTRA | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.51 | 2.89 R |
| KNF | MANUFACTURED HOUSING BW | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.54 | 2.96 R |
| KNF | SUPERCUBE | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.52 | 2.40 R |

* DESCRIPTION OF BRAND CODES:

KNF = KNAUF INSULATION

| | | | | | | | | |
|--|------------------|-------------|-----------------|--------------|---------------------------|----|------|--------|
| Owens Corning Insulating Systems LLC - T 1428 | | | | | Updated 08/09/2018 | | | |
| FG | ATTICAT BLOWN-IN | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.48 | 2.86 R |
| FG | PROCAT BLOWN-IN | FIBER GLASS | SINGLE MATERIAL | CEILING/WALL | YES | NO | 0.48 | 2.86 R |
| FG | PROPINK | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.48 | 2.86 R |
| FG | PROPINK | FIBER GLASS | SINGLE MATERIAL | WALL | YES | NO | 1.30 | 4.00 R |
| FG | PROPINK | FIBER GLASS | SINGLE MATERIAL | WALL | YES | NO | 1.80 | 4.36 R |
| FG | PROPINK | FIBER GLASS | SINGLE MATERIAL | ROOF | YES | NO | 1.30 | 4.00 R |
| FG | THERMAGLAS LF | FIBER GLASS | SINGLE MATERIAL | CEILING | YES | NO | 0.68 | 2.55 R |

* DESCRIPTION OF BRAND CODES:

FG = FIBERGLAS

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|---|-------------|-------------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| Mineral Fiber Water Heater, Duct & Pipe Wrap | | | | | | | | | | |
| Certainteed Corporation - T 1023 | | | | | | Updated 10/20/2024 | | | | |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | EQUIP/PIPES | YES | YES | 1.00 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | EQUIP/PIPES | YES | YES | 1.50 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | EQUIP/PIPES | YES | YES | 2.00 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | EQUIP/PIPES | YES | YES | 2.50 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | EQUIP/PIPES | YES | YES | 3.00 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | EQUIP/PIPES | YES | YES | 3.50 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | EQUIP/PIPES | YES | YES | 4.00 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | FSP | EQUIP/PIPES | YES | YES | 1.00 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | FSP | EQUIP/PIPES | YES | YES | 1.50 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | FSP | EQUIP/PIPES | YES | YES | 2.00 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | FSP | EQUIP/PIPES | YES | YES | 2.50 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | FSP | EQUIP/PIPES | YES | YES | 3.00 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | FSP | EQUIP/PIPES | YES | YES | 3.50 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | FSP | EQUIP/PIPES | YES | YES | 4.00 | 0.26 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS PIPES | YES | YES | 1.00 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS PIPES | YES | YES | 1.50 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS PIPES | YES | YES | 2.00 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS PIPES | YES | YES | 2.50 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS PIPES | YES | YES | 3.00 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS PIPES | YES | YES | 3.50 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS PIPES | YES | YES | 4.00 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | DUCTS PIPES | YES | YES | 1.00 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | DUCTS PIPES | YES | YES | 1.50 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | DUCTS PIPES | YES | YES | 2.00 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | DUCTS PIPES | YES | YES | 2.50 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | DUCTS PIPES | YES | YES | 3.00 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | DUCTS PIPES | YES | YES | 3.50 | 0.24 | K |
| CT | CRIMPWRAP | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | DUCTS PIPES | YES | YES | 4.00 | 0.24 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | DUCTS PIPES | YES | YES | 1.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | DUCTS PIPES | YES | YES | 1.50 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | DUCTS PIPES | YES | YES | 2.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | DUCTS PIPES | YES | YES | 2.50 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | DUCTS PIPES | YES | YES | 3.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | DUCTS PIPES | YES | YES | 3.50 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | ASJ | DUCTS PIPES | YES | YES | 4.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS PIPES | YES | YES | 1.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS PIPES | YES | YES | 1.50 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS PIPES | YES | YES | 2.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS PIPES | YES | YES | 2.50 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS PIPES | YES | YES | 3.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS PIPES | YES | YES | 3.50 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS PIPES | YES | YES | 4.00 | 0.25 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|------------------------|-------------|------------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSP | DUCTS PIPES | YES | YES | 1.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSP | DUCTS PIPES | YES | YES | 1.50 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSP | DUCTS PIPES | YES | YES | 2.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSP | DUCTS PIPES | YES | YES | 2.50 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSP | DUCTS PIPES | YES | YES | 3.00 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSP | DUCTS PIPES | YES | YES | 3.50 | 0.25 | K |
| CT | CRIMPWRAP 2 | FIBER GLASS | FACED SINGLE MATERIAL | FSP | DUCTS PIPES | YES | YES | 4.00 | 0.25 | K |
| CT | DUCT WRAP-75 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.20 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 5.70 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 2.125 | 6.00 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 2.25 | 6.50 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 2.50 | 7.10 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 3.00 | 8.00 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.50 | 4.20 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.00 | 5.70 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.25 | 6.50 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.50 | 7.10 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 3.00 | 8.00 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 1.50 | 4.20 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 2.00 | 5.70 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 2.125 | 6.00 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 2.25 | 6.50 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 2.50 | 7.10 | R |
| CT | DUCT WRAP-75 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 3.00 | 8.00 | R |
| CT | DUCT WRAP-100 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 3.00 | R |
| CT | DUCT WRAP-100 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.50 | R |
| CT | DUCT WRAP-100 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 6.10 | R |
| CT | DUCT WRAP-100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.50 | 3.00 | R |
| CT | DUCT WRAP-100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.50 | 4.50 | R |
| CT | DUCT WRAP-100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.00 | 6.10 | R |
| CT | DUCT WRAP-100 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 1.50 | 3.00 | R |
| CT | DUCT WRAP-100 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 1.50 | 4.50 | R |
| CT | DUCT WRAP-100 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 2.00 | 6.10 | R |
| CT | DUCT WRAP-150 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 3.20 | R |
| CT | DUCT WRAP-150 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.80 | R |
| CT | DUCT WRAP-150 | FIBER GLASS | FSK FACED SGL MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 6.40 | R |
| CT | DUCT WRAP-150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.00 | 3.20 | R |
| CT | DUCT WRAP-150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.50 | 4.80 | R |
| CT | DUCT WRAP-150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.00 | 6.40 | R |
| CT | DUCT WRAP-150 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 1.00 | 3.20 | R |
| CT | DUCT WRAP-150 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 1.50 | 4.80 | R |
| CT | DUCT WRAP-150 | FIBER GLASS | VINYL FCD SGL MATERIAL | PLASTIC | DUCTS | YES | YES | 2.00 | 6.40 | R |
| CT | TOUGHGARD R DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 0.50 | 2.10 | R |
| CT | TOUGHGARD R DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 4.20 | R |
| CT | TOUGHGARD R DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.50 | 6.30 | R |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|------------------------|-------------|---------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| CT | TOUGHGARD R DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 2.00 | 8.30 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 0.50 | 0.24 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 0.50 | 0.26 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 0.50 | 2.00 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 0.50 | 2.10 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 0.24 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 0.27 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 0.28 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 4.00 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 4.20 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.00 | 4.40 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.50 | 0.24 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.50 | 0.27 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.50 | 0.28 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.50 | 6.00 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 1.50 | 6.30 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 2.00 | 0.24 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 2.00 | 0.27 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 2.00 | 0.28 | K |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 2.00 | 8.00 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | COATED SGL MATERIAL | OTHER | DUCTS | YES | NO | 2.00 | 8.30 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | SINGLE MATERIAL | OTHER | DUCTS | YES | NO | 0.56 | 2.10 | R |
| CT | TOUGHGARD T DUCT LINER | FIBER GLASS | SINGLE MATERIAL | OTHER | DUCTS | YES | NO | 1.20 | 4.20 | R |

* DESCRIPTION OF BRAND CODES:
CT = CERTAINTeed

| Johns Manville - T 1039 | | | | | | Updated 09/14/2021 | | | | |
|-------------------------|-------------------|-------------|-----------------------|------|-----------|--------------------|-----|------|------|---|
| JM | DIFFUSER BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 4.30 | R |
| JM | DIFFUSER BOARD | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.38 | 6.00 | R |
| JM | DIFFUSER BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | DIFFUSER BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.38 | 6.00 | R |
| JM | DUCT LINER PM | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 2.20 | R |
| JM | DUCT LINER PM | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 4.20 | R |
| JM | DUCT LINER PM | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.50 | 6.30 | R |
| JM | DUCT LINER PM | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 2.00 | 8.00 | R |
| JM | FITTING FAB BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | FITTING FAB BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.50 | 6.50 | R |
| JM | FITTING FAB BOARD | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 2.00 | 8.70 | R |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.50 | 0.26 | K |
| JM | HTB 26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.26 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|-------------------|-------------|-----------------------|----------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 2.20 | R |
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 4.20 | R |
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.50 | 6.30 | R |
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 2.00 | 8.00 | R |
| JM | LINACOUSTIC RC | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 3.00 | 12.00 | R |
| JM | LINACOUSTIC RC-HP | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 4.30 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 0.50 | 2.20 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.00 | 4.20 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 1.50 | 6.30 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 2.00 | 8.00 | R |
| JM | LINACOUSTIC RC-IG | FIBER GLASS | COMPOSITE | NONE | DUCTS | YES | NO | 3.00 | 12.00 | R |
| JM | LINACOUSTIC R-300 | FIBER GLASS | FACED SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 4.30 | R |
| JM | LINACOUSTIC R-300 | FIBER GLASS | FACED SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 6.30 | R |
| JM | LINACOUSTIC R-300 | FIBER GLASS | FACED SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 8.70 | R |
| JM | LINACOUSTIC R-300 | FIBER GLASS | FACED SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 13.00 | R |
| JM | LINACOUSTIC R-300 | FIBER GLASS | FACED SINGLE MATERIAL | NONE | DUCTS | YES | NO | 4.00 | 17.40 | R |
| JM | MAD BD 475 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | MAD BD 800 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.50 | 6.50 | R |
| JM | MAD BD 800 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 2.00 | 8.70 | R |
| JM | MADSPIRA | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.23 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 1.00 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 1.50 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 2.00 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 2.50 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 3.00 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 3.50 | 0.24 | K |
| JM | MICRO-FLEX AP/FSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/PIPES | YES | YES | 4.00 | 0.24 | K |
| JM | MICRO-LOK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 0.50 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.00 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.50 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.00 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.50 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 3.00 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 3.50 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 4.00 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 0.50 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 1.00 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 1.50 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 2.00 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 2.50 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 3.00 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 3.50 | 0.25 | K |
| JM | MICRO-LOK | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 4.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.00 | 0.24 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

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|------------|--------------|-------------|-----------------------|----------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.50 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.00 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.50 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 3.00 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 4.00 | 0.24 | K |
| JM | MICRO-LOK HP | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 0.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 0.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 1.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 1.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 2.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 2.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 3.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 3.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 4.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 4.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 5.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | YES | 1.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | YES | 1.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | YES | 2.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | YES | 2.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | YES | 3.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | YES | 3.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | YES | 4.00 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | YES | 4.50 | 0.25 | K |
| JM | MICRO-LOK HP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | YES | 5.00 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.22 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.25 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.38 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.22 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.50 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.22 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.23 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|------------|-------------|-----------------------|----------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 0.75 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.00 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.25 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.23 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.50 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.75 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.75 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.75 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 1.75 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.00 | 0.25 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.00 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.00 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.00 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.25 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.25 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.25 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.50 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.50 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.50 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.75 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.75 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 2.75 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.00 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.00 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.00 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.25 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.25 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.25 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.50 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.50 | 0.29 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|---------------------------------------|--------------|-----------------------|----------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.50 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.75 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.75 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 3.75 | 0.31 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 4.00 | 0.27 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 4.00 | 0.29 | K |
| JM | MICROLITE | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PLAS | EQUIP/DUCTS | YES | YES | 4.00 | 0.31 | K |
| JM | MINWOOL®-1200 PIPE | MINERAL WOOL | SINGLE MATERIAL | NONE | PIPE | NO | NO | 1.50 | 0.23** | K |
| JM | MINWOOL®-1200 PIPE | MINERAL WOOL | SINGLE MATERIAL | NONE | PIPE | NO | NO | 2.50 | 0.23** | K |
| JM | MINWOOL®-1200 PIPE | MINERAL WOOL | SINGLE MATERIAL | NONE | PIPE | NO | NO | 3.00 | 0.23** | K |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 1.50 | 4.20 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 2.00 | 5.60 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 2.20 | 6.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 3.00 | 8.30 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 4.40 | 12.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 5.75 | 16.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 75 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 7.00 | 19.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 100 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 1.50 | 5.60 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 100 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 2.00 | 7.40 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 150 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 1.50 | 6.00 | R |
| JM | MICROLITE FSK/PSK DUCT WRAP TYPE 150 | FIBER GLASS | FACED SINGLE MATERIAL | FSK/PSK | DUCTS | YES | YES | 2.00 | 8.00 | R |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 60 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.31 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 60 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.31 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 60 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.20 | 0.31 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 60 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 0.31 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.29 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.29 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.20 | 0.29 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 0.29 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.27 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.27 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 0.25 | K |
| JM | MICROLITE STANDARD DUCT WRAP TYPE 150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.25 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.00 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 1.50 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.00 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 2.50 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 3.00 | 0.24 | K |
| JM | PRECIPITATOR SG | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | YES | NO | 4.00 | 0.24 | K |
| JM | PIPE WRAP | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | PIPES | YES | YES | 0.50 | 1.80 | R |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.22 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|--------------------------|-------------|-----------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG22 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.22 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG23 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.23 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG24 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.24 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG25 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.25 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG26 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.26 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.27 | K |
| JM | SG SERIES SPIN-GLAS SG28 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.27 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|--|-------------|-----------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG30 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.30 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG32 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.32 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 0.50 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.34 | K |
| JM | SG SERIES SPIN-GLAS SG34 | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.34 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.02 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.26 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.02 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.26 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.02 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.26 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.02 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.26 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.02 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.26 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.02 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.50 | 0.26 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.02 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 4.00 | 0.26 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.26 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.24 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.26 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.24 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.26 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.24 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.26 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.50 | 0.24 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.26 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 3.00 | 0.24 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.76 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.23 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.76 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.23 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 1.76 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.23 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 2.00 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.22 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 2.00 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.22 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 2.00 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 2.00 | 0.22 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 2.50 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.00 | 0.22 | K |
| JM | SPIN-GLAS WH XG / RANGE-GLAS XG - 2.50 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | EQUIPMENT | NO | NO | 1.50 | 0.22 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|---------------------------------|-------------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| JM | SPIRACOUSTIC PLUS | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | SPIRACOUSTIC PLUS | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.50 | 6.50 | R |
| JM | SPIRACOUSTIC PLUS | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 2.00 | 8.70 | R |
| JM | SPIRAL SG 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.30 | K |
| JM | SPIRAL SG 76 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.30 | K |
| JM | SPIRAL SG 85 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.27 | K |
| JM | SPIRAL SG 85 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.27 | K |
| JM | SPIRAL SG 100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.26 | K |
| JM | SPIRAL SG 100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.26 | K |
| JM | SPIRAL SG 125 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.25 | K |
| JM | SPIRAL SG 125 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.25 | K |
| JM | SPIRAL SG 150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 0.24 | K |
| JM | SPIRAL SG 150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 0.24 | K |
| JM | SUPERDUCT 475 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.00 | 4.30 | R |
| JM | SUPERDUCT 800 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 1.50 | 6.50 | R |
| JM | SUPERDUCT 800 | FIBER GLASS | FACED SINGLE MATERIAL | FSK | DUCTS | YES | YES | 2.00 | 8.70 | R |
| JM | ZESTON HI-LO INSULATION INSERTS | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 2.00 | 0.26 | K |

** @100F

* DESCRIPTION OF BRAND CODES:
 JM = JOHNS MANVILLE

| Knauf Insulation - T 1002 | | | | | | Updated 10/28/2024 | | | | |
|---------------------------|------------------------|-------------|-----------------------|-------|-------|--------------------|-----|------|------|---|
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 0.50 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 1.00 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 1.50 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 2.00 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 2.50 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 3.00 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 3.50 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 4.00 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 4.50 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 5.00 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 5.50 | 0.23 | K |
| KNF | ALLEY-K | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 6.00 | 0.23 | K |
| KNF | ALLEY WRAP FCD .75 PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.20 | R |
| KNF | ALLEY WRAP FCD .75 PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 5.60 | R |
| KNF | ALLEY WRAP FCD .75 PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.50 | 7.00 | R |
| KNF | ALLEY WRAP FCD .75 PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 3.00 | 8.40 | R |
| KNF | ALLEY WRAP FCD 1.0 PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.50 | R |
| KNF | ALLEY WRAP FCD 1.0 PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 6.00 | R |
| KNF | ALLEY WRAP FCD 1.5 PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.80 | R |
| KNF | ALLEY WRAP FCD 1.5 PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 6.40 | R |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|------------------------|-------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| KNF | ALLEY WRAP PLN .75 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 4.20 | R |
| KNF | ALLEY WRAP PLN .75 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 5.60 | R |
| KNF | ALLEY WRAP PLN 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 4.50 | R |
| KNF | ALLEY WRAP PLN 1.0 PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 6.00 | R |
| KNF | DTWP FCD .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.20 | R |
| KNF | DTWP FCD .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 5.60 | R |
| KNF | DTWP FCD .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.19 | 6.00 | R |
| KNF | DTWP FCD .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.50 | 7.00 | R |
| KNF | DTWP FCD .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 3.00 | 8.40 | R |
| KNF | DTWP FCD .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 1.50 | 4.20 | R |
| KNF | DTWP FCD .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 2.00 | 5.60 | R |
| KNF | DTWP FCD .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 3.00 | 8.40 | R |
| KNF | DTWP FCD 1.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.50 | R |
| KNF | DTWP FCD 1.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 6.00 | R |
| KNF | DTWP FCD 1.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 1.50 | 4.50 | R |
| KNF | DTWP FCD 1.0PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 2.00 | 6.00 | R |
| KNF | DTWP FCD 1.5PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.00 | 3.20 | R |
| KNF | DTWP FCD 1.5PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.80 | R |
| KNF | DTWP FCD 1.5PCF | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 6.40 | R |
| KNF | DTWP FCD 1.5PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 1.50 | 4.80 | R |
| KNF | DTWP FCD 1.5PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 2.00 | 6.40 | R |
| KNF | DTWP PLN .75PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 2.80 | R |
| KNF | DTWP PLN .75PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 4.20 | R |
| KNF | DTWP PLN .75PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 5.60 | R |
| KNF | DTWP PLN .75PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.19 | 6.00 | R |
| KNF | DTWP PLN .75PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.50 | 7.00 | R |
| KNF | DTWP PLN .75PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.50 | 7.00 | R |
| KNF | DTWP PLN .75PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 8.40 | R |
| KNF | DTWP PLN 1.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 4.50 | R |
| KNF | DTWP PLN 1.0PCF | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 6.00 | R |
| KNF | DTWP VIN .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 1.50 | 4.20 | R |
| KNF | DTWP VIN .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 2.00 | 5.60 | R |
| KNF | DTWP VIN .75PCF | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | DUCTS | YES | YES | 3.00 | 8.40 | R |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 0.50 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 1.00 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 1.50 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 2.00 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 2.50 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 3.00 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 3.50 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 4.00 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 4.50 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 5.00 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 5.50 | 0.23 | K |
| KNF | EARTHWOOL 1000° | FIBER GLASS | FACED SINGLE MATERIAL | PAPER | PIPES | YES | YES | 6.00 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 0.50 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 1.00 | 0.23 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|-----------------|-------------|-----------------------|--------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 1.50 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 2.00 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 2.50 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 3.00 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 3.50 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 4.00 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 4.50 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 5.00 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 5.50 | 0.23 | K |
| KNF | REDI-KLAD 1000° | FIBER GLASS | FACED SINGLE MATERIAL | METAL | PIPES | YES | YES | 6.00 | 0.23 | K |

* DESCRIPTION OF BRAND CODES:
KNF = KNAUF INSULATION

| M-D Building Products Inc - T 1120 | | | | | Updated 11/19/2024 | | | | | |
|------------------------------------|-------|-------------|-----------------|------|--------------------|-----|----|------|------|---|
| MD | 04929 | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 0.50 | 1.70 | R |
| MD | 04937 | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 0.50 | 1.70 | R |

* DESCRIPTION OF BRAND CODES:
MD = M-D BUILDING PRODUCTS

| Owens Corning Insulating Systems LLC - T 1428 | | | | | Updated 09/28/2018 | | | | | |
|---|------------------|-------------|-----------------------|---------|--------------------|-----|-----|------|------|---|
| FG | COMML WRAP T 75 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.20 | R |
| FG | COMML WRAP T 75 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 5.60 | R |
| FG | COMML WRAP T 75 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 3.00 | 8.30 | R |
| FG | COMML WRAP T 100 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.50 | R |
| FG | COMML WRAP T 100 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 6.00 | R |
| FG | COMML WRAP T 150 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.80 | R |
| FG | COMML WRAP T 150 | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 6.40 | R |
| FG | DUCTWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 1.50 | 4.20 | R |
| FG | DUCTWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.00 | 5.60 | R |
| FG | DUCTWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 2.20 | 6.00 | R |
| FG | DUCTWRAP | FIBER GLASS | FACED SINGLE MATERIAL | METAL | DUCTS | YES | YES | 3.00 | 8.30 | R |
| FG | FDM TYPE-PFT | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.00 | 0.29 | K |
| FG | FDM TYPE-PFT | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.25 | 0.29 | K |
| FG | FDM TYPE-PFT | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.50 | 0.29 | K |
| FG | FDM TYPE-PFT | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 1.75 | 0.29 | K |
| FG | FDM TYPE-PFT | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.00 | 0.29 | K |
| FG | FDM TYPE-PFT | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.25 | 0.29 | K |
| FG | FDM TYPE-PFT | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | NO | NO | 2.50 | 0.29 | K |
| FG | FLEXWRAP-FRK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 1.00 | 0.23 | K |
| FG | FLEXWRAP-FRK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 1.50 | 0.23 | K |
| FG | FLEXWRAP-FRK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 2.00 | 0.23 | K |
| FG | FLEXWRAP-FRK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 2.50 | 0.23 | K |
| FG | FLEXWRAP-FRK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 3.00 | 0.23 | K |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|-----------------------------|-------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| FG | FLEXWRAP-PSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 1.00 | 0.23 | K |
| FG | FLEXWRAP-PSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 1.50 | 0.23 | K |
| FG | FLEXWRAP-PSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 2.00 | 0.23 | K |
| FG | FLEXWRAP-PSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 2.50 | 0.23 | K |
| FG | FLEXWRAP-PSK | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 3.00 | 0.23 | K |
| FG | PIPE AND TANK - ASJ | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 0.50 | 0.26 | K |
| FG | PIPE AND TANK - ASJ | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 1.00 | 0.26 | K |
| FG | PIPE AND TANK - ASJ | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 1.50 | 0.26 | K |
| FG | PIPE AND TANK - ASJ | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 2.00 | 0.26 | K |
| FG | PIPE AND TANK - ASJ | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 2.50 | 0.26 | K |
| FG | PIPE AND TANK - ASJ | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 3.00 | 0.26 | K |
| FG | PIPE AND TANK - ASJ | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 3.50 | 0.26 | K |
| FG | PIPE AND TANK - ASJ MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 0.50 | 0.26 | K |
| FG | PIPE AND TANK - ASJ MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 1.00 | 0.26 | K |
| FG | PIPE AND TANK - ASJ MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 1.50 | 0.26 | K |
| FG | PIPE AND TANK - ASJ MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 2.00 | 0.26 | K |
| FG | PIPE AND TANK - ASJ MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 2.50 | 0.26 | K |
| FG | PIPE AND TANK - ASJ MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 3.00 | 0.26 | K |
| FG | PIPE AND TANK - ASJ MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | EQUIP/PIPES | YES | YES | 3.50 | 0.26 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 0.50 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.00 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 1.50 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.00 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 2.50 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 3.00 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 3.50 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 4.00 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 4.50 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 5.00 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 5.50 | 0.25 | K |
| FG | PIPE INSUL -ASJ MAX-SSL MAX | FIBER GLASS | FACED SINGLE MATERIAL | MTL/PPR | PIPES | YES | YES | 6.00 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 0.50 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 1.00 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 1.50 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 2.00 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 2.50 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 3.00 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 3.50 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 4.00 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 4.50 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 5.00 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 5.50 | 0.25 | K |
| FG | PIPE INSUL -NO WRAP | FIBER GLASS | SINGLE MATERIAL | NONE | PIPES | YES | NO | 6.00 | 0.25 | K |
| FG | R-4.3 WATER HTR | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | YES | 1.25 | 4.30 | R |
| FG | R-4.8 WATER HTR | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | YES | 1.50 | 4.80 | R |
| FG | R-6.9 WATER HTR | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | YES | 2.00 | 6.90 | R |
| FG | U DUCT WRAP T 50 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 3.60 | R |

BHGS - THERMAL INSULATION DIRECTORY
WATER HEATER, DUCT, PIPE WRAP
INSULATION MANUFACTURERS

| Brand Code | Product ID | Material | Type | Facing | Primary Use | Designed for Exposed Applications? | Acts as a Vapor Retarder? (Class I / II) | Labeled Product Thickness Inches | Labeled Thermal Performance | R, K or C Value |
|------------|------------------|-------------|-----------------------|---------|-------------|------------------------------------|--|----------------------------------|-----------------------------|-----------------|
| FG | U DUCT WRAP T 50 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 4.80 | R |
| FG | U DUCT WRAP T 50 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 7.30 | R |
| FG | U DUCT WRAP T 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 2.60 | R |
| FG | U DUCT WRAP T 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 3.90 | R |
| FG | U DUCT WRAP T 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 5.20 | R |
| FG | U DUCT WRAP T 75 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 3.00 | 7.80 | R |
| FG | U DUCT WRAP T100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 2.80 | R |
| FG | U DUCT WRAP T100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 4.20 | R |
| FG | U DUCT WRAP T100 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 2.00 | 5.60 | R |
| FG | U DUCT WRAP T150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.00 | 3.00 | R |
| FG | U DUCT WRAP T150 | FIBER GLASS | SINGLE MATERIAL | NONE | DUCTS | YES | NO | 1.50 | 4.50 | R |
| FG | WATER HEATER TOP | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | YES | 2.00 | --- | --- |
| FG | WTRHTRKIT-CAL ED | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | YES | 1.75 | 5.60 | R |
| FG | WTRHTRKIT-R 5.2 | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | YES | 1.50 | 5.20 | R |
| FG | WTRHTRKIT R 6.4 | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | YES | 2.00 | 6.40 | R |
| FG | WTRHTRKIT R 12 | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | YES | 4.00 | 12.00 | R |

* DESCRIPTION OF BRAND CODES:
FG = FIBERGLAS

| Silvercote - T 1557 | | | | | | Updated 06/30/2023 | | | | |
|---------------------|--------------|-------------|-----------------------|---------|---------|--------------------|----|------|------|---|
| GBP | WATER HEATER | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | NO | 2.00 | 0.31 | K |
| GBP | WATER HEATER | FIBER GLASS | FACED SINGLE MATERIAL | PLASTIC | WTR HTR | YES | NO | 3.00 | 0.30 | K |

* DESCRIPTION OF BRAND CODES:
GBP = GBP SILVERCOTE

| Polyisocyanurate Water Heater, Duct & Pipe Wrap | | | | | | | | | | |
|---|---------------------------|--------------|-----------------------|------------|------------|--------------------|-----|------|-------|---|
| Johns Manville - T 1341 | | | | | | Updated 01/14/2021 | | | | |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | EQUIP/DUCT | NO | YES | 0.50 | 2.70 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | EQUIP/DUCT | NO | YES | 1.00 | 6.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | EQUIP/DUCT | NO | YES | 1.50 | 9.30 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | EQUIP/DUCT | NO | YES | 2.00 | 13.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | EQUIP/DUCT | NO | YES | 2.50 | 16.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | EQUIP/DUCT | NO | YES | 3.00 | 19.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | EQUIP/DUCT | NO | YES | 3.50 | 22.00 | R |
| JM | XSPECT® ISOFOAM APF BOARD | ISOCYANURATE | FACED SINGLE MATERIAL | METAL FOIL | EQUIP/DUCT | NO | YES | 4.00 | 26.00 | R |

* DESCRIPTION OF BRAND CODES:
JM = JOHNS MANVILLE