



Commercial Roofing

Insulation & Cover Boards

Product Guide

You can depend on Johns Manville for the industry's most complete line of commercial roofing products, and a deliberate focus on integrating our roofing components into reliable, high-performing and robust systems to meet any need.

Choosing a JM insulation and cover board under your roofing membrane is the easiest way to increase energy savings and ensure long-term protection for your roof system.

Our wide selection of cover boards and insulation products are manufactured and distributed in facilities across North America, and you can count on our dedicated technical support throughout the lifecycle of all of your projects.

TABLE OF CONTENTS

Polyisocyanurate Insulation 2

Specialty Polyiso Insulation 4

Composites..... 6

Cover Boards 8

Polyiso Products 8

Perlite Products..... 10

Gypsum Products 14

Cement Products..... 18

POLYISOCYANURATE INSULATION

Our polyisocyanurate insulation products offer exceptional R-values certified with the PIMA QualityMark®. They are produced with an environmentally compliant pentane blowing agent with zero ozone depletion and virtually no global warming potential.



ENERGY 3® & Tapered ENERGY 3®

- Closed-cell polyiso rigid roof insulation boards bonded to fiber glass reinforced fibers
- Greater resistance to indentation and crushing

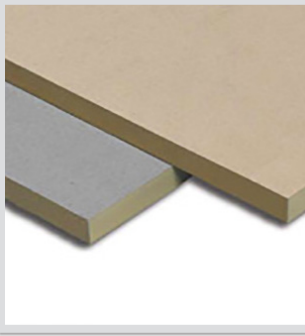
Meets the requirements of ASTM C 1289, Type II, Class 1, Grade 2 (20 psi)
• ENERGY 3 / Tapered ENERGY 3
Grade 3 (25 psi)
• ENERGY 3 25 PSI / Tapered ENERGY 3 25 PSI



ENERGY 3® CGF & Tapered ENERGY 3® CGF

- Closed-cell polyisocyanurate foam core rigid roof insulation boards bonded to an inorganic coated glass facer on each side
- Inorganic coated glass facers provide improved resistance to mold growth

Meets the requirements of ASTM C 1289, Type II, Class 2, Grade 2 (20 psi)
• ENERGY 3 CGF / Tapered ENERGY 3 CGF
Grade 3 (25 psi)
• ENERGY 3 25 PSI CGF / Tapered ENERGY 3 25 PSI CGF



ENRGY 3® FR & Tapered ENRGY 3® FR

- Closed-cell polyisocyanurate foam core rigid roof insulation boards bonded to an inorganic coated glass facer on each side
- Tan, premium coated bottom facer yields UL Class A combustible deck assembly rating at a 1" minimum thickness without the need for a gypsum cover board or slipsheet

Meets the requirements of ASTM C 1289, Type II, Class 2 Grade 2 (20 psi)

- ENRGY 3 FR / Tapered ENRGY 3 FR
- ENRGY 3 (25 psi)
- ENRGY 3 25 PSI FR / Tapered ENRGY 3 25 PSI FR

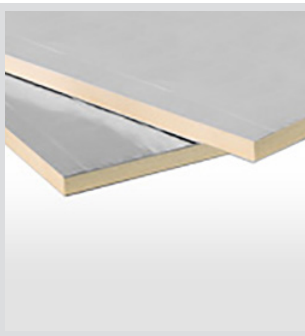


ENRGY 3® AGF & Tapered ENRGY 3® AGF

- Closed-cell polyisocyanurate foam core rigid roof insulation boards bonded to an all glass facer
- Inorganic glass facers provide improved resistance to mold growth

Meets the requirements of ASTM C 1289, Type II, Class 3, Grade 2 (20 psi)

- ENRGY 3 AGF / Tapered ENRGY 3 AGF
- ENRGY 3 (25 psi)
- ENRGY 3 25 PSI AGF / Tapered ENRGY 3 25 PSI AGF



ENRGY 3® Foil Faced

- Closed-cell polyisocyanurate foam core rigid roof insulation boards bonded to a tri-lam foil facer on both sides
- Provides low vapor permeability for cold storage or metal building applications

Meets the requirements of ASTM C 1289, Type I, Class I, (available in 20 psi and 25 psi)

SPECIALTY POLYISO INSULATION

Our specialty polyiso insulation products are designed to meet additional needs and requirements. We have a non-halogenated product, tapered products designed specifically for your roof, and flute fill options to ensure your metal roof meets its highest thermal potential.

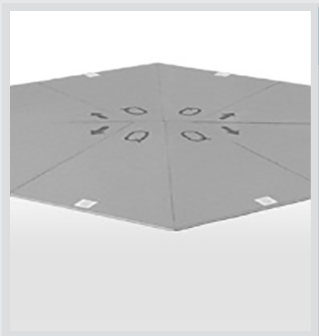


ENERGY 3[®].E & Tapered ENERGY 3[®].E

- Next-generation polyisocyanurate roofing board insulation
- Inherent fire resistance without halogenated flame retardants
- Declared “Red List Free” by Living Building Challenge

Meets the requirements of ASTM C 1289, Type II, Class 1, Grade 2 (20 psi)

- ENERGY 3.E / Tapered ENERGY 3.E Grade 3 (25 psi)
- ENERGY 3.E 25 PSI / Tapered ENERGY 3.E 25 PSI

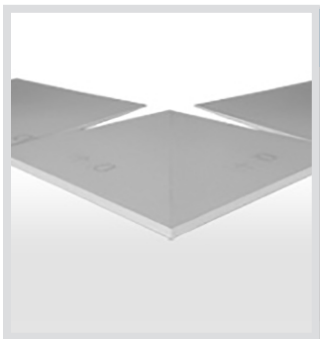


DiamondBack[®] Pre-Cut Crickets

- Sloped insulation panels made from ENERGY 3 or Tapered ENERGY 3
- Closed-cell polyisocyanurate foam core
- Reduces job-site waste disposal, increases labor efficiency and smooth field transitions

Meets the requirements of ASTM C 1289, Type II, Class 1, Grade 2 (20 psi)

- DiamondBack Pre-Cut Crickets Grade 3 (25 psi)
- DiamondBack 25 PSI Pre-Cut Crickets



DiamondBack® Pre-Cut Miters

- Two separate tapered panels factory-cut from Tapered ENERGY 3
- Closed-cell polyisocyanurate foam core
- Reduces job-site waste disposal, increases labor efficiency and smooth field transitions

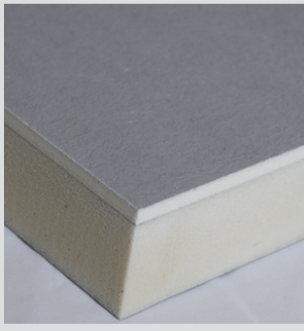
*Meets the requirements of ASTM C 1289, Type II, Class 1,
Grade 2 (20 psi)*

- *DiamondBack Pre-Cut Miters
Grade 3 (25 psi)*
- *DiamondBack 25 PSI Pre-Cut Miters*



COMPOSITES

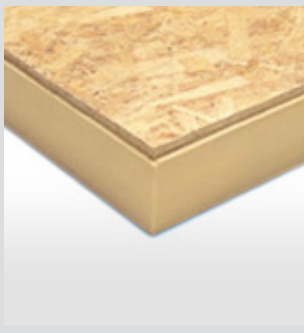
Our composites offer another advantage. They can save you time and money on installation and material costs. If you have a project that requires high thermal insulation and a nailable surface, we've got that too.



Invinsa Foam®

- Insulation combined with Invinsa board, a high-density cover board with the highest compressive strength (150 psi nominal) on the market
- Utilizes ENRGY 3 CGF for a protective layer for insulation and improved resistance to mold growth
- Cost and labor savings by combining cover board and insulation into a single board
- Invinsa Foam achieves an I-90 wind uplift rating in fully-adhered single ply systems with six fasteners per board per 4' x 8' board with a minimum composite thickness of 2"

*High-Density layer meets the requirements of ASTM C 1289, Type II, Class 4, Grades 1, 2, & 3
Normal-Density layer meets the requirements of ASTM C 1289, Type II, Class 2
Currently no ASTM designation for this composite*



Nailboard®

- Closed cell polyisocyanurate foam core rigid roof insulation board bonded to oriented strand board (OSB) on one side and fiber glass reinforced facer on the other
- Provides a strong, nailable surface
- Routed wood edges allow for expansion and contraction of the wood
- All Nailboards must be mechanically attached with JM-approved fasteners Nail-Lok™ SD and Nail-Lok™ WD

*Meets the requirements of ASTM C 1289, Type V
(available with 20 or 25 psi ENRGY 3®)*



Vented Nailboard®

- Closed cell polyisocyanurate foam core rigid roof insulation board attached with spacers to oriented strand board on one side and fiber glass reinforced facer on the other
- Provides a strong, nailable surface
- Features routed wood edges to allow for expansion and contraction of the wood
- Increases air flow, improves cooling and decreases moisture vapor
- Incorporates a seamless sheet of OSB to eliminate potential splitting of the panel during loading or handling

Polyisocyanurate Insulation meets ASTM C 1289 (available in 20 or 25 psi ENRGY 3®)



Fesco Foam® & Tapered Fesco Foam®

- Closed cell polyisocyanurate foam core bonded to 1/2" Retro-Fit™ Board on one side and a fiber glass reinforced facer on the other
- TopLoc® coating reduces excessive asphalt absorption in hot-asphalt applied roofing systems

Meets the requirements of ASTM C 1289, Type III Fesco® Foam / Tapered Fesco Foam®



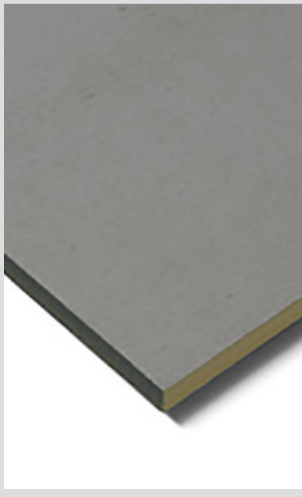
DuraFoam®

- Closed cell polyisocyanurate foam core bonded in the foaming process to 1/2" DuraBoard® on one side and a fiber glass reinforced facer on the other
- Top surface is sealed with a special polymerized asphalt emulsion coating allowing for the direct application of SBS or APP membranes utilizing heat-weld application techniques

Meets the requirements of ASTM C 1289, Type III

POLYISO COVER BOARDS

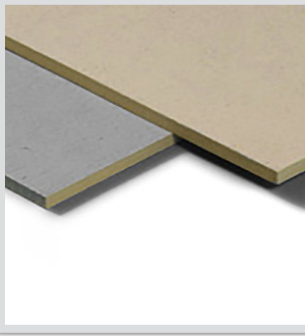
Adding a cover board enhances the long-term performance of your commercial roofing system. Lightweight and easy to install, high density polyiso cover boards from JM are great for regions prone to hail and won't be damaged by normal foot traffic. Go to www.JM.com to watch how you can save when using high density polyiso versus gypsum. And for recover or metal retrofit applications, SeparatoR™ Board is your go-to choice to separate the old from the new.



Invinsa Roof Board®

- Meets many UL and FM Class A fire ratings
- Lightweight for labor and installation efficiencies including easy hoisting, staging and maneuvering around the roof
- High compressive and flexural strength and increased resistance to damage from various sources like hail, construction loads, normal roof maintenance and more
- Low water absorption for performance benefits in diverse environments
- User friendly and permits easy and efficient scoring, cutting, snapping and fast, tight fabrication around rooftop penetrations
- Flexible so it minimizes breakage and waste on every job
- Provides a low dust environment and smooth surface for strong membrane adhesion

Meets the requirements of ASTM C 1289, Type II, Class 4, Grades 1, 2 and 3



Invinsa® FR

- Achieves UL Class A certifications for single ply systems installed over combustible decks
- Maintains all of the same benefits as standard Invinsa Roof Board

Meets the requirements of ASTM C 1289, Type II, Class 4, Grades 1, 2 and 3



SeperatoR® Board

- Closed-cell polyisocyanurate core provides high R-value per inch
- Glass-reinforced facers provide rigidity and resistance to indentation and crushing
- Lightweight and flexible for recover and metal retrofit applications

Meets the requirements of ASTM C 1289, Type II, Class 1, Grade 2

PERLITE COVER BOARDS

Adding a cover board enhances the long-term performance of your commercial roofing system. Perlite cover boards from JM offer time-proven performance in bituminous and single ply systems, and contain a high percentage of recycled content. Check out our latest UL Environmental claims at productguide.ulenvironment.com.



RetroPlus™ Roof Board

- Works well with hot asphalt and resists membrane blisters
- Provides good dimensional stability, and excellent insulation value with stable R-value and superior fire resistance
- High density provides additional strength and durability over ½" Retro-Fit™ Board with low moisture content and water resistance compared to wood fiber board

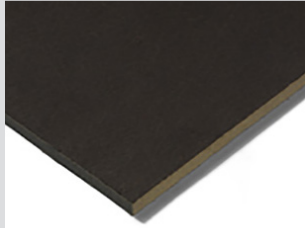
Meets the requirements of ASTM C 728, Type 3



1/2" Retro-Fit™ Board

- Works well with hot asphalt and resists membrane blisters
- Provides good dimensional stability, and excellent insulation value with stable R-value and excellent fire resistance
- Reinforced with recycled newsprint to provide strength to the board as well as high recycled content

Meets the requirements of ASTM C 728, Type 2



DuraBoard® Roof Insulation

- Polymerized asphalt emulsion coating allows for direct application of SBS or APP membranes using torch application techniques, and does not require pre-heating like with heavily coated boards
- Works well with hot asphalt
- Provides good dimensional stability, and excellent insulation value with stable R-value and fire resistance
- Reinforced with recycled newsprint to provide strength to the board as well as high recycled content
- High density provides additional strength and durability

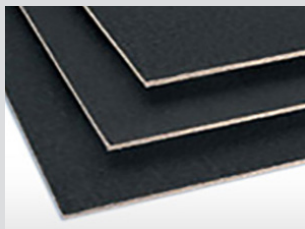
Meets the requirements of ASTM C 728, Type 2



FESCO® & Tapered FESCO® Board

- Works well with hot asphalt and resists membrane blisters
- Provides good dimensional stability, and excellent insulation value with stable R-value and excellent fire resistance
- Reinforced with recycled newsprint to provide strength to the board as well as high recycled content

Meets the requirements of ASTM C 728, Type 1



FESCO® Board HD

- Works well with hot asphalt and resists membrane blisters
- Provides good dimensional stability, and excellent insulation value with stable R-value and superior fire resistance
- Reinforced with recycled newsprint to provide strength to the board as well as high recycled content
- High density* allows for installations directly over a wide flute or metal deck application for spans up to 2½", and resists damage from construction and maintenance

**For direct to deck applications, contact JM technical services for specific requirements and system compatibility*

Meets the requirements of ASTM C 728, Type 2



FesCant Plus Cant Strip

- Made from JM Cant Board and expanded perlite
- High recycled content, good dimensional stability and excellent insulation value
- Fabricated into different sizes to provide excellent transition from the deck to the wall of the roof

*Meets the requirements of ASTM C 728,
Type 2*



Tapered FESCO® Edge Strip

- Made from expanded perlite and blended with selected binders and fibers
- Excellent for transitioning from membrane to nailer, or from Tapered FESCO®, Tapered ENRGY 3®, or Tapered Fesco Foam® panels to the roof level
- Helps promote positive drainage

*Meets the requirements of ASTM C 728,
Type 1*



GYPSUM COVER BOARDS

Adding a cover board enhances the long-term performance of your commercial roofing system. Gypsum cover boards from JM offer excellent fire and wind uplift performance.



JM® SECUROCK® Glass-Mat Roof Board

- High-performance gypsum core roof board with white glass-mat facer and back
- Excellent fire performance
- Does not support mold growth
- Unmatched mat-to-core tensile bond strength

Meets the requirements of ASTM C 1177



JM® SECUROCK® Gypsum-Fiber Roof Board

- High-performance gypsum and cellulose fiber roof board with water-resistant core and maximum mold resistance
- Exceptional strength and fire performance
- Excellent wind uplift without risk of facer delamination

Meets the requirements of ASTM C 1278



JM® DensDeck® Roof Board

- Glass-mat faced gypsum roof board
- FM Class 1 for fire barrier requirements and UL Class A unlimited slope with excellent surface burning characteristics
- Scores a 10/10 for mold resistance

Meets the requirements of ASTM C 1177



JM® DensDeck® Prime Roof Board

- Enhanced coated glass-mat faced gypsum cover board
- Coated fiber glass facer is ideal for fully-adhered systems
- FM Class 1 for fire barrier requirements and UL Class A unlimited slope with excellent surface burning characteristics

Meets the requirements of ASTM C 1177



JM® DEXcell® FA Glass-Mat Roof Board

- Heavy-duty coated glass-mat faced gypsum cover board is ideal for fully adhered systems
- High compressive strength improves overall roof system performance
- FM Class 1 for fire barrier requirements and UL Class A unlimited slope with excellent surface burning characteristics

Meets the requirements of ASTM C 1177



JM® DEXcell® Glass-Mat Roof Board

- Coated glass-mat faced gypsum cover board is ideal for mechanically fastened systems
- Scores and snaps easily
- FM Class 1 for fire barrier requirements and UL Class A unlimited slope with excellent surface burning characteristics

Meets the requirements of ASTM C 1177



JM SECUR
Glass-Mat Ro

JM

JM SECUR
Glass-Mat Roof Board

JM

EC

CEMENT COVER BOARDS

Adding a cover board enhances the long-term performance of your commercial roofing system. Cement-based cover boards from JM are ideal for mold resistance.



JM[®] SECUROCK[®] Cement Roof Board

- Aggregated Portland cement slurry with all encompassing polymer-coated, glass-fiber mesh on all surfaces
- Excellent fire performance, mold resistance and non-combustible rating
- Enhanced bond strength and excellent resistance to delamination

Meets the requirements of ASTM C 1325



JM[®] DEXcell[®] Cement Roof Board

- Cement and glass mesh cover board
- Lightweight cementitious core provides exceptional impact resistance
- Scores a 10/10 for mold resistance

Meets the requirements of ASTM C 1325



A page with a blue header and footer, and a large white central area with horizontal ruling lines. The lines are evenly spaced and cover most of the page's width. The blue header is at the top, and the blue footer is at the bottom. The white area is in the middle, with the ruling lines extending across it.

Product Warranties

Johns Manville designs roofing products that work together to provide a one-source comprehensive roofing system solution.

Total roofing system guarantees are available under the JM Peak Advantage® Guarantee program. To learn more about our standard guarantee terms and conditions, visit our website at www.JM.com or talk to your local JM sales representative.

Peak Advantage® Contractor Program

To ensure quality workmanship and top-notch installation, JM offers its Peak Advantage Contractor Program. Contractors selected to participate are proven to be best in class, having lived up to the highest performance standards. These contractors have access to JM's strongest guarantees. To be assured of the best possible results on the roofing system you specify, make sure it's installed by a JM Peak Advantage Contractor.



717 17th St.
Denver, CO 80202
800-922-5922

www.JM.com/roofing

RS-5589 5-17 (Replacing 11-16)