

COVER BOARD PRODUCTS



BUILDING VALUE



VERSICO ROOFING SYSTEMS: **BUILDING VALUE**

Welcome to the pinnacle of roofing innovation where protection, durability, and energy efficiency converge — Versico Roofing Systems' comprehensive selection of high-performance roofing cover boards. Our products offer a variety of benefits designed to meet diverse roofing needs, including the thermal and moisture resistance of polyiso, the sustainability and compressive strength of EcoStorm VSH™, the versatility and lightweight nature of fanfold EPS, and the versatile performance of polyiso composites.

These premium cover boards not only extend the lifespan of your roofing systems but also enhance their structural integrity and energy-saving capabilities. Each cover board is designed to provide specific benefits, ensuring a perfect solution for even the most unique project requirements.

Experience the perfect blend of quality and performance with Versico's line of cutting-edge cover boards.

PICKING YOUR PRODUCT

Selecting the appropriate roofing cover board is crucial for ensuring the longevity and performance of your roofing system. Refer to the matrix below to compare the features, benefits, and suitability of various cover board options to meet your specific roofing needs.

Overall Comparison Matrix

Product	Insulating	Compressive Strength	Sustainability	Hail Rating	Portability
Polyiso Cover Boards and Composites	+	✓	—	✓	+
Gypsum	—	+	—	✓	—
Other	✓	—	✓	✓	✓

— = Good ✓ = Better + = Best

How we classified products:

Insulating: The average of the highest R-values of all products in each category

Good: Below 2

Better: 2 – 5

Best: Above 5

Compressive Strength: The average PSI of all products in each category

Good: Below 100

Better: 100 – 500

Best: Above 500

Sustainability: The average recycled content of all products in each category

Good: Below 15

Better: 15 – 30

Best: Above 30

Hail Rating: The average hail rating of all products in each category

Good: Moderate

Better: Severe

Best: Very Severe

Portability: The average of the highest weight of all products in each category

Good: Above 80 lbs

Better: 80 – 20 lbs

Best: Below 20 lbs

POLYISO COVER BOARDS **AND COMPOSITES**

Product	Insulating	Compressive Strength	Sustainability	Hail Rating	Portability
VersiCore® HD	✓	✓	+	✓	+
SecurShield® HD	✓	✓	—	✓	+
SecurShield HD NH	✓	✓	—	✓	+
SecurShield HD Plus	✓	✓	—	✓	+
SecurShield HD RapidLock	✓	✓	—	✓	+
SecurShield HD Composite	+	✓	—	+	✓
SecurShield HD Composite RapidLock	+	✓	—	+	✓
DuraFaceR® Composite	+	Core Only	—	+	✓

— = Good

✓ = Better

+ = Best

VersiCore HD

VersiCore HD is a polyiso cover board bonded to glass-reinforced facers on both sides which can be used in both re-roofing and new construction.

- This product is for induction-welded or mechanically fastened systems only
- Polyiso Eco option available with 5 – 49% bio-content

Available Thickness: ½"

Available Panel Sizes: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 8.69

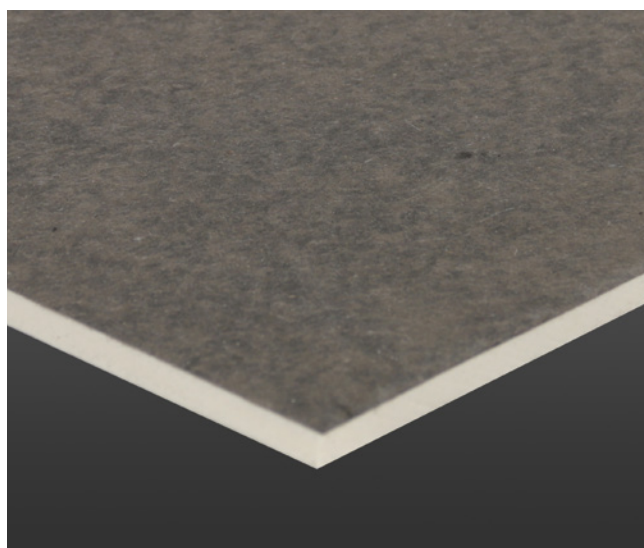
R-value: 2.5

Compressive Strength: 109 PSI max

Recycled Content: 39.5%

Membrane Attachment Type: Mechanically Fastened

Hail Rating: Severe Hail



Learn more about Polyiso Eco today!

SecurShield HD

SecurShield HD is a polyiso cover board laminated to a coated glass fiber-mat facer that can be used in re-roofing and new construction.

- This product comes standard with ReadyFlash® Technology that allows for greater adhesive flash-off control
- Polyiso Eco option available with 5 – 49% bio-content

Available Thickness: ½"

Available Panel Sizes: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 12.4

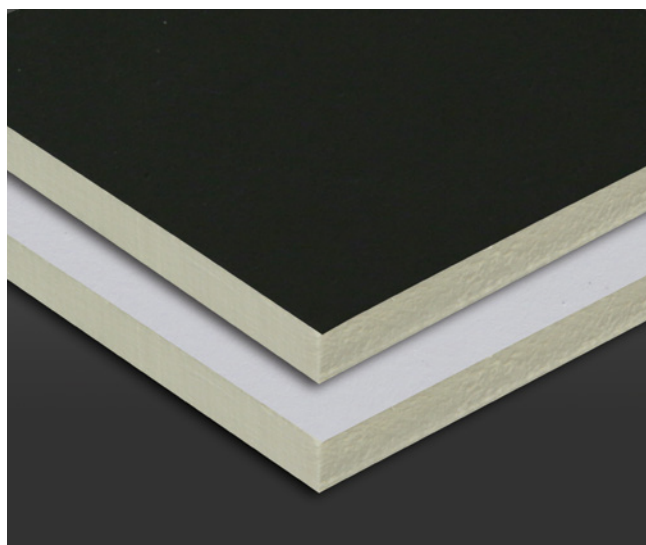
R-value: 2.5

Compressive Strength: 109 PSI max

Recycled Content: 8.2%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



SecurShield HD NH

SecurShield HD is a polyiso cover board laminated to a coated glass fiber-mat facer that can be used in re-roofing and new construction.

- This product comes standard with ReadyFlash Technology that allows for greater adhesive flash-off control
- "Red List Free" declare label and contains zero halogenated flame retardants

Available Thickness: ½"

Available Panel Sizes: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 12.4

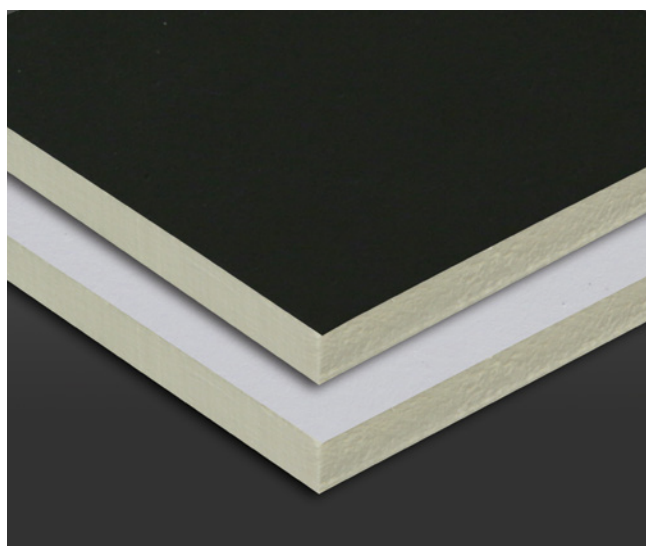
R-value: 2.5

Compressive Strength: 109 PSI max

Recycled Content: 8.2%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



POLYISO COVER BOARDS **AND COMPOSITES**

SecurShield HD Plus

SecurShield HD Plus is a polyiso cover board laminated to a coated glass fiber-mat facer with a scrim on one side of the board.

- Industry-leading 8 fasteners per 4' x 8' board to meet FM 1-90
- Reduced fastening patterns in corners and perimeters per FM requirements

Available Thickness: ½"

Available Panel Sizes: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 13.33

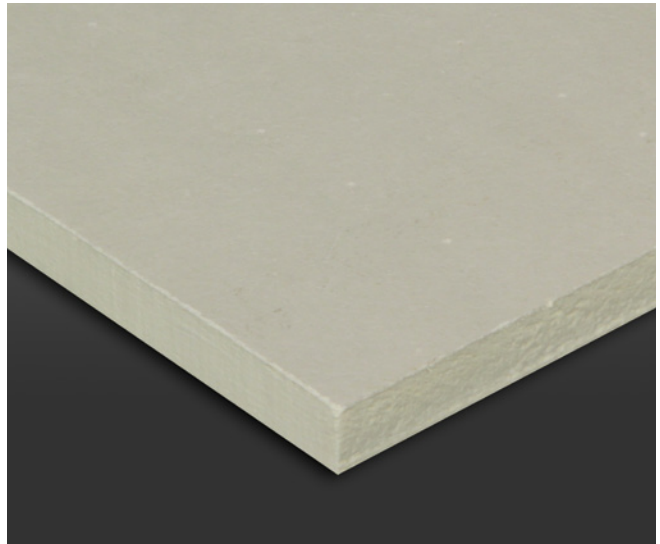
R-value: 2.5

Compressive Strength: 109 PSI max

Recycled Content: 8.2%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



SecurShield HD RapidLock

SecurShield HD RapidLock is a hook-and-loop attachment facer on our high density polyiso that can be utilized with Versico's VersiFleece® RL™ EPDM, TPO, PVC or KEE HP membranes.

- No adhesives necessary for membrane attachment
- No temperature restrictions for installation

Available Thickness: ½"

Available Panel Size: 4' x 8'

Weight per 4' x 8' Board (lbs.): 12.3

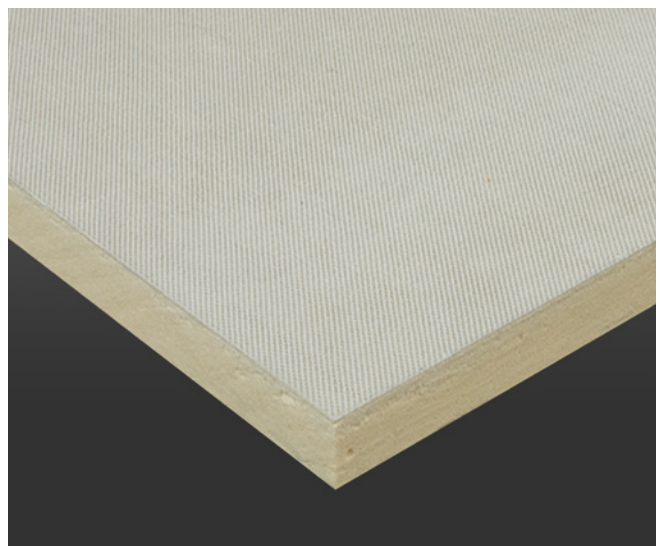
R-value: 2.5

Compressive Strength: 109 PSI max

Recycled Content: 9%

Membrane Attachment Type: Hook-and-loop with Versico's VersiFleece RapidLock membranes

Hail Rating: Severe Hail



SecurShield HD Composite

SecurShield HD Composite is a composite insulation panel comprised of ½" HD polyiso cover board laminated to SecurShield rigid polyiso insulation.

- Single-component solution reducing inter-ply adhesives
- FM uplift approval ratings up to 300 psf over steel decks

Available Thicknesses: 1.5", 1.8", 2.0", 2.5" 3.0", 3.5", 3.6", 4.0"

Available Panel Sizes: 47.5" x 47.5" and 47.5" x 95.5"

Weight per 47.5" x 95.5" Board (lbs.): 19.33 – 32.3

R-value: 8.2 – 23.0

Compressive Strength: 109 PSI max

Recycled Content: <9%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Very Severe Hail



SecurShield HD Composite RapidLock

SecurShield HD Composite RapidLock is a hook-and-loop facer composed of a ½" HD polyiso cover board laminated to SecurShield rigid polyiso insulation that can be utilized with Versico's VersiFleece RL EPDM, TPO, PVC or KEE HP membranes.

- No adhesives necessary for membrane attachment
- No temperature restrictions for installation

Available Thicknesses: 2.0", 2.5", 3.0", 3.5", 4.0"

Available Panel Sizes: 47.5" x 47.5" and 47.5" x 95.5"

Weight per 47.5" x 95.5" Board (lbs.): 21.89 – 32.3

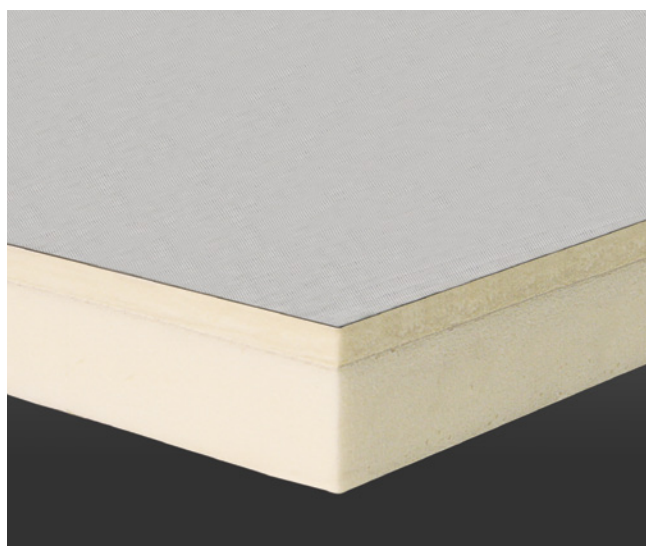
R-value: 11.1 – 23.0

Compressive Strength: 109 PSI max

Recycled Content: 8.2%

Membrane Attachment Type: Hook-and-loop with Versico's VersiFleece RapidLock membranes

Hail Rating: Very Severe Hail



POLYISO COVER BOARDS AND COMPOSITES

DuraFaceR Composite

DuraFaceR Composite is a rigid roof insulation composite composed of a polyiso insulation panel manufactured on-line to $\frac{7}{8}$ " OSB.

- Superior combination of high-insulating properties and resilient OSB surface for high-traffic roof installations
- Utilize if projects require higher wind speed coverage

Available Thicknesses: 1.5", 2.0", 2.5", 3.0", 3.5", 4.0"

Available Panel Sizes: 47.5" x 47.5" routed on 3 sides and 47.5" x 95.5" routed on 4 sides

Weight per 47.5" x 95.5" Board (lbs.): 52.7 – 65.7

R-value: 6.3 – 21.1

Compressive Strength: 20 PSI on polyiso foam core

Recycled Content: N/A

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Very Severe Hail



GYPSUM COVER BOARDS

Product	Insulating	Compressive Strength	Sustainability	Hail Rating	Portability
DensDeck®	—	+	—	✓	—
DensDeck Prime	—	+	—	✓	—
DensDeck ProFast™ Prime	—	+	—	✓	—
DensDeck StormX™ Prime	—	+	—	+	—
DEXcell® Glass Mat	—	+	—	✓	—
DEXcell FA® Glass Mat	—	+	—	✓	—
DEXcell FA VSH® Glass Mat	—	+	—	+	—
USG SECUROCK® UltraLight Coated Glass-Mat	—	+	—	✓	—
USG SECUROCK Glass-Mat	—	+	—	✓	—
USG SECUROCK Weather Defense	—	+	—	+	—
USG SECUROCK Gypsum-Fiber	—	+	+	✓	—

— = Good

✓ = Better

⊕ = Best

DensDeck

DensDeck Roof Board features a gypsum core with embedded glass mat facers on the top and bottom of the board. This product has UL code ratings available for class A, B, and C for unlimited slopes and wood decks.

- Primarily used as cover board over insulation
- Resistant to deterioration, warping, and jobsite damage

Available Thicknesses: 1/4", 1/2", 5/8"

Available Panel Size: 4' x 8'

Weight per 4' x 8' Board (lbs.): 38.4 – 80

R-value: .28 – .67

Compressive Strength: 900 PSI

Recycled Content: 0%

Membrane Attachment Type: Mechanically Fastened

Hail Rating: Severe Hail



GYPSUM COVER BOARDS

DensDeck Prime

DensDeck Prime Roof Board features a gypsum core with embedded glass mat facers on the top and bottom of the board. This board is typically used over insulation in EPDM, TPO, and PVC applications.

- 5/8" DensDeck Prime can replace any generic type "X" gypsum board in any roof assembly in the UL Fire Resistance Directory under prefix "P"
- UL code ratings available for high slopes and wood decks

Available Thicknesses: 1/4", 1/2", 5/8"

Available Panel Size: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 38.4 – 80

R-value: .28 – .67

Compressive Strength: 900 PSI

Recycled Content: 0%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



DensDeck ProFast Prime

DensDeck ProFast Prime is innovative, lightweight roofing solution designed to enhance performance, efficiency, and cost savings in roofing applications. Superior maneuverability, making it easier to transport, handle, and install without compromising strength, durability, or dimensional stability when installed in a properly designed roof assembly.

- Approximately 20% lighter than 1/2" DensDeck Prime Roof Board
- Can help reduce number of fasteners needed

Available Thickness: 3/8"

Available Panel Size: 4' x 8'

Weight per 4' x 8' Board (lbs.): 52.5

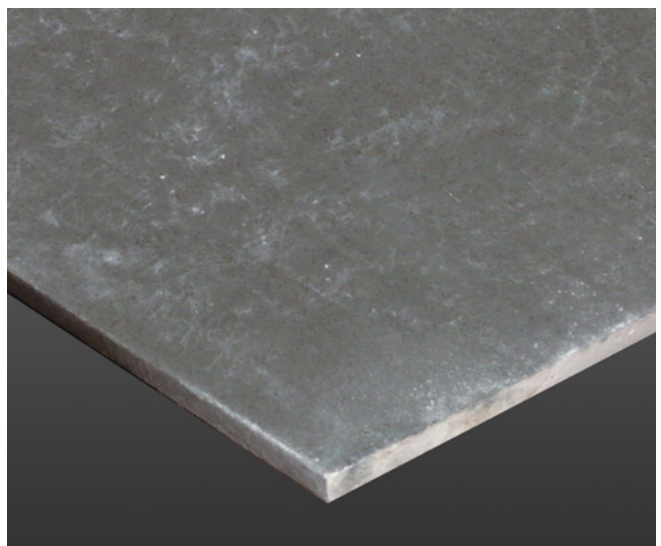
R-value: .54

Compression Strength: 880 PSI

Recycled Content: 0%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



DensDeck StormX Prime

DensDeck StormX Prime Roof Board is a reinforced gypsum cover board with an enhanced moisture-resistant core and coated glass mat facers.

- First gypsum cover board to meet FM VSH classification under single-ply membranes
- Approved as a thermal barrier over combustible and non-combustible roof decks

Available Thickness: 5/8"

Available Panel Size: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 98

R-value: .67

Compressive Strength: 900 PSI

Recycled Content: 0%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Very Severe Hail



DEXcell Glass Mat

DEXcell Glass Mat Roof Board consists of coated fiberglass facers and an enhanced mold-resistant gypsum core.

- Fiberglass mat facers have special coating for ease of use in handling and installation
- Meets FM Class 1 and UL Class A fire ratings for roofing systems up to unlimited slope per UL 790/ULC S107

Available Thicknesses: 1/4", 1/2", 5/8"

Available Panel Size: 4' x 8'

Weight per 4' x 8' Board (lbs.): 38.4 – 80

R-value: .23 – .5

Compressive Strength: 900 PSI

Recycled Content: 5%

Membrane Attachment Type: Mechanically Fastened

Hail Rating: Severe Hail



GYPSUM COVER BOARDS

DEXcell FA Glass Mat

DEXcell FA Glass Mat Roof Board features heavy-duty coated fiberglass facers and an enhanced mold- and moisture-resistant gypsum core.

- Precoated facers' sealed-surface technology is designed to increase the coverage of membrane adhesives and enhance the performance of the bond strength of the system
- Eliminates the need for a field-applied primer for many fully adhered roofing membrane applications after system manufacturer consultation

Available Thicknesses: 1/4", 1/2", 5/8"

Available Panel Sizes: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 38.4 – 80

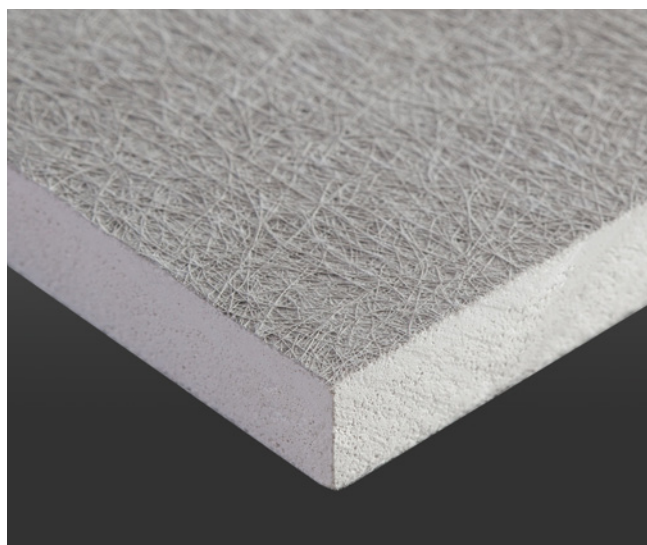
R-value: .23 – .5

Compressive Strength: 900 PSI

Recycled Content: 5%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



DEXcell FA VSH Glass Mat

DEXcell FA VSH Glass Mat Roof Board features a reinforced gypsum panel with an enhanced gypsum core and heavy-duty coated glass mat facers.

Available Thickness: 5/8"

Available Panel Sizes: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 92.8

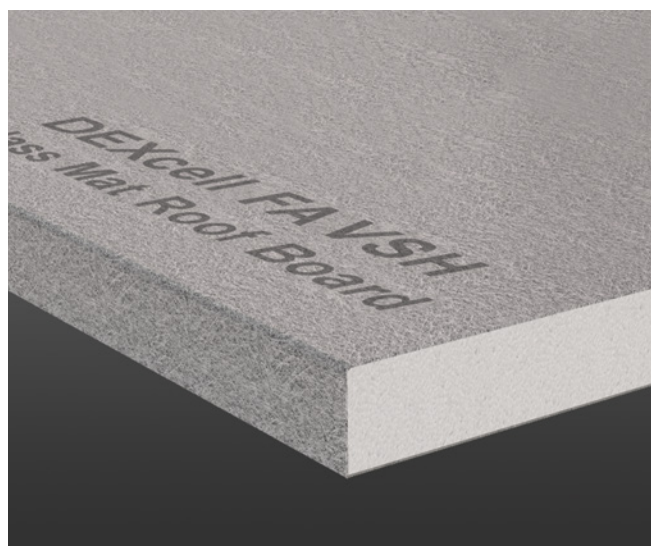
R-value: .5

Compressive Strength: 900 PSI

Recycled Content: 5%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Very Severe Hail



USG SECUROCK UltraLight Coated Glass-Mat

USG SECUROCK UltraLight Coated Glass-Mat Roof Board features a specially treated gypsum core and high-performance glass-mat facers. The top facer has been coated for adhered applications.

- Lightweight core, up to 18% lighter than competitive products
- Ideal for use as a fire barrier and thermal barrier

Available Thicknesses: 1/4", 1/2", 5/8"

Available Panel Size: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 38.4 – 70

R-value: .36 – .54

Compressive Strength: 700 – 900 PSI

Recycled Content: 0%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



USG SECUROCK Glass-Mat

USG SECUROCK Glass-Mat Roof Board features a specially treated gypsum core and high-performance glass-mat facers.

- Mat-to-core tensile bond strength makes facer less likely to delaminate when cutting
- For use in low-slope roofing applications

Available Thicknesses: 1/4", 1/2", 5/8"

Available Panel Size: 4' x 8'

Weight per 4' x 8' Board (lbs.): 38.4 – 70

R-value: .36 – .54

Compressive Strength: 700 – 1,000 PSI

Recycled Content: 0%

Membrane Attachment Type: Mechanically Fastened

Hail Rating: Severe Hail



GYPSUM COVER BOARDS

USG SECUROCK Weather Defense

USG SECUROCK Weather Defense Roof Board features a specially formulated gypsum core and high-performance glass-mat facers.

- High compressive and tensile strength
- Only gypsum cover board to meet FM VSH classification under a bare-back EPDM membrane

Available Thicknesses: 5/8"

Available Panel Size: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 100

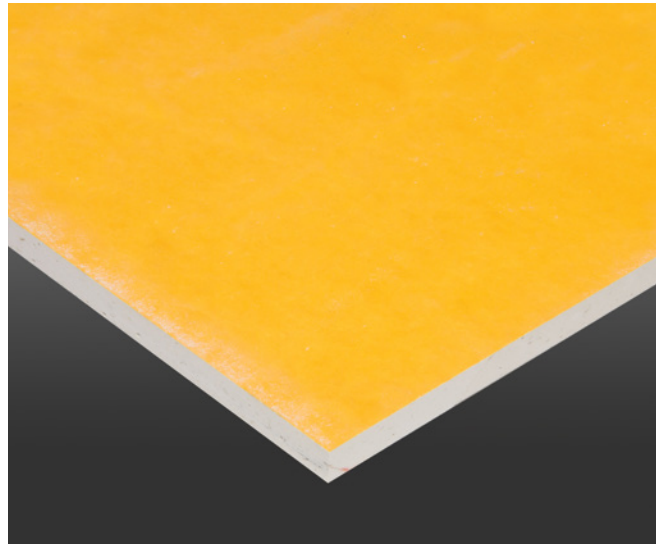
R-value: .54

Compressive Strength: 900 - 1000 PSI

Recycled Content: 0%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Very Severe Hail



USG SECUROCK Gypsum-Fiber

USG SECUROCK Gypsum-Fiber Roof Board is a fiber-reinforced board with a uniform composition which gives the panel superior strength and water resistance through to the core.

- Homogenous composition leads to high wind uplift ratings with no risk of facer delamination
- Living Building Challenge™ Red List Free Declare Label

Available Thicknesses: 1/4", 3/8", 1/2", 5/8"

Available Panel Size: 4' x 4' and 4' x 8'

Weight per 4' x 4' Board (lbs.): 25.12 – 51.2

R-value: .2 – .6

Compressive Strength: 1,800 PSI

Recycled Content: 97%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



OTHER BOARDS

Product	Insulating	Compressive Strength	Sustainability	Hail Rating	Portability
DuraStorm® VSH™	—	+	+	+	✓
DEXcell Cement	—	+	—	✓	—
Blue Ridge Fiberboard® Structodeck® (HP Recovery Board)	—	✓	+	✓	✓
GreenGuard® PB6 Fanfold Recovery Board	✓	—	✓	N/A	+
R-Tech® Fanfold Recovery Board	✓	—	✓	✓	+

— = Good

✓ = Better

⊕ = Best

DuraStorm VSH

DuraStorm VSH is an engineered composite building material made from a proprietary blend of plastic and cellulose fiber sourced from post-industrial and post-consumer waste str.

- Coated glass facer on the top of the board
- Resists moisture and mold

Available Thicknesses: ½"

Available Panel Size: 4' x 8'

Weight per 4' x 8' board: 64 lbs.

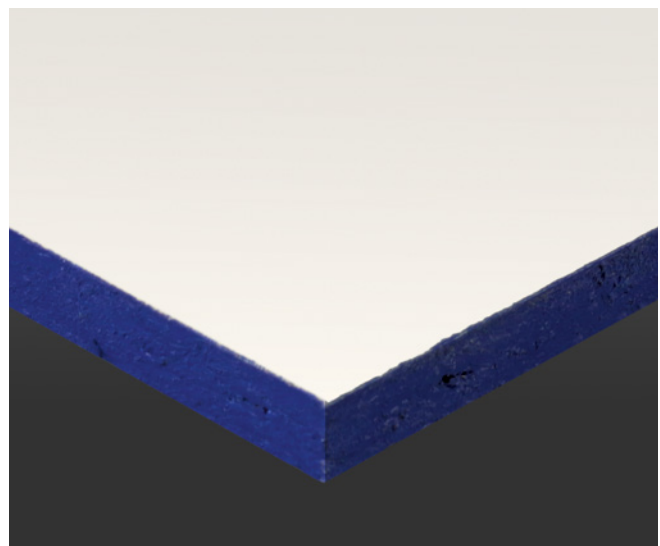
R-value: n/a

Compressive Strength: 3,990 PSI

Recycled Content: 95%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Very Severe Hail



OTHER BOARDS

DEXcell Cement

DEXcell Cement Roof Board is composed of Portland cement and lightweight aggregate with heavy-duty fiberglass-mesh facers.

- Can serve as a substrate for a vapor retarder and/or continuous substrate for the application of roofing membranes
- Can be used to sheath the roof side of parapet and penthouse walls and is ideal for green roofs and photovoltaic systems

Available Thicknesses: $\frac{5}{8}$ " , $\frac{7}{16}$ "

Available Panel Sizes: 4' x 4' and 4' x 8'

Weight per 4' x 4' Board (lbs.): 71 – 89

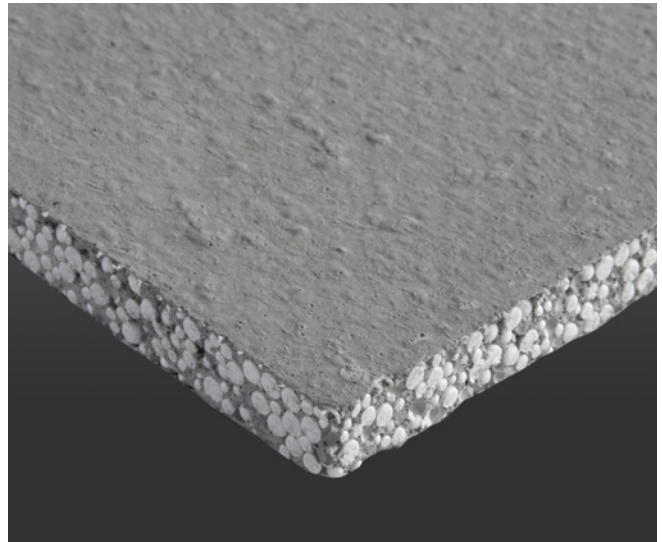
R-value: .28 – .4

Compressive Strength: 1,250 PSI

Recycled Content: 5%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



Blue Ridge Fiberboard Structodeck (Versico Recovery Board)

Blue Ridge Fiberboard Structodeck is also known as Versico's HP Recovery Board. It consists of wood fibers and additives and is treated to promote adhesion of membranes and reduce adhesive soak-in.

- Structodeck is a 100% USDA Certified BioBased Product
- This product is compatible with PVC, TPO, and EPDM membrane systems

Available Thicknesses: $\frac{1}{2}$ " and 1"

Available Panel Sizes: 4' x 4' and 4' x 8'

Weight per 4' x 8' Board (lbs.): 20.8 – 38.4

R-value: 1.3 – 2.6

Compressive Strength: 150 PSI

Recycled Content: Up to 84%

Membrane Attachment Type: Mechanically Fastened or Fully Adhered

Hail Rating: Severe Hail



GreenGuard PB6 Fanfold Recovery Board

GreenGuard PB6 Fanfold Recovery Board is a lightweight, closed-cell extruded polystyrene (XPS) foam core board with high-strength film facers on both sides.

- Ideal to use with EPDM or TPO roofing membranes
- Fan-folded bundles allow for maximum coverage of 200 square feet

Available Thickness: $\frac{3}{8}$ "

Available Panel Size: 4' x 50'

Weight per 4' x 8' Board (lbs.): 5.2 – 9.3

R-value: 3.85 – 5.00

Compressive Strength: 10 – 25 PSI

Recycled Content: Up to 25%

Membrane Attachment Type: Mechanically Fastened

Hail Rating: N/A



R-Tech Fanfold Recover Board

R-Tech Fanfold is a high-performance rigid insulation made of lightweight expanded polystyrene (EPS) with advanced polymeric laminate facers. This product is available with factory-adhered metallic-reflective facers, white facers, or a combination of the two.

- Accordion-style fold allows installers to carry 400 square feet at once
- Designed as a recovery board for applications with TPO, PVC, or EPDM membranes

Available Thicknesses: $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ "

Available Panel Size: 4' x 50'

Weight per 4' x 8' Board (lbs.): 5.2 – 9.3

R-value: 3.85 – 5.00

Compressive Strength: 10 – 25 PSI

Recycled Content: Up to 25%

Membrane Attachment Type: Mechanically Fastened

Hail Rating: Severe Hail



IMPROVE ROOFTOP PRODUCTIVITY

Increase rooftop productivity with Versico's Flexible DASH™ Dual Tank Adhesive, a two-component, construction-grade, low-rise polyurethane adhesive designed for bonding cover boards to various substrates.

- Reduces labor by eliminating equipment maintenance and breakdowns.
- Application time reduced up to 15% when compared to low-pressure dispensing machines.
- Increased productivity when Dual Tanks are used simultaneously (each additional Dual Tank can increase productivity up to 100%).

Flexible DASH Dual Tank Adhesive Is Compatible With:

SecurShield HD, SecurShield HD Plus, DensDeck, SECUROCK, DuraStorm, and Versico Recovery Board.

Compatible deck types include concrete, cellular lightweight concrete (LWC), gypsum, cementitious wood fiber, wood, and painted or galvanized steel.

Flexible DASH Dual Tank Adhesive is also compatible with the following roofing materials: smooth (previously exposed) BUR, mineral cap sheets, smooth (previously exposed) or granulated mod bit, aged EPDM, aged Hypalon®, and Versico's VapAir Seal™ 725TR Air and Vapor Barrier.



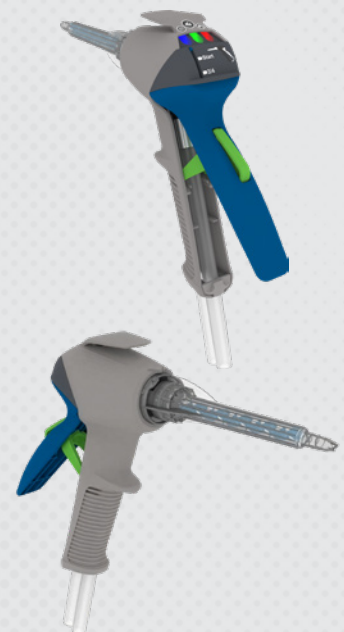
PERFORMANCE THAT DELIVERS

A Temperature Sensing Gun is included in every Flexible DASH Dual Tank Adhesive set. It provides continuous, real-time monitoring of the adhesive temperature to help ensure every application is delivered at the ideal temperature.

The TSG Delivers:

- Real-time temperature sensing that continuously monitors adhesive temperature as material flows through the gun
- Integrated blue, green, and red LED indicators that provide immediate visual confirmation of proper application conditions
- Reduced risk of installation errors and material waste by clearly identifying out-of-range temperatures before application
- Up to 75% reduced trigger force and ergonomic design to minimize installer fatigue during extended use
- Improved flow control and application consistency to support uniform coverage and reliable curing

By eliminating guesswork related to material temperature, the TSG helps mitigate common installation risks associated with cold or overheated adhesive, including poor adhesion, inconsistent curing, and rework.



ACHIEVING CODE COMPLIANCE STANDARDS

Below are some of the common cover board codes that are necessary for roofing warranties.

ASTM C1289, Type II, Class 1, Grade 3 roofing insulation is a specific category within the ASTM standards for polyisocyanurate thermal insulation board. This classification indicates that the insulation has a higher compressive strength than lower grades, and it comes with a non-reinforced felt or a coated glass fiber mat facer on both sides, designed for use in certain commercial roofing systems.

ASTM C1289, Type II, Class 4, Grade 1 roofing insulation refers to a specific classification of polyisocyanurate foam board insulation. This designation means the insulation has a particular set of physical properties, including a felt or fiberglass mat facer on both sides, and it meets specified requirements for dimensional stability, compressive strength, and thermal resistance.

ASTM C1177 refers to a standard specification for glass mat gypsum substrate for use as sheathing, which includes roofing cover boards. Roofing cover boards under this specification are composed of a water-resistant gypsum core, surfaced with glass mat partially or completely embedded in the core, and are utilized to provide a flat, uniform surface for roofing systems, as well as to add rigidity and enhanced weather resistance.

ASTM C578 is a standard specification that outlines the requirements for preformed, cellular polystyrene thermal insulation, commonly referred to as expanded polystyrene (EPS) and extruded polystyrene (XPS) foam board insulation. The standard classifies EPS and XPS insulation by type, based on their physical properties such as thermal resistance, compressive strength, and water absorption rates. Products that adhere to ASTM C578 ensure consistent quality and performance, making them suitable for a wide range of applications in the construction industry, particularly in insulation for walls, roofs, and foundations.

ASTM C1278 is a standard specification for fiber-reinforced gypsum panels. This standard defines the minimum requirements for the physical and mechanical properties of glass fiber-reinforced gypsum panels, which are used in the construction of interior walls, ceilings, and partitions. The specification ensures that these panels possess adequate structural strength, durability, and fire resistance, while also providing guidelines for their proper installation and finishing.

ASTM C208 Type II refers to a classification within the ASTM C208 standard, which specifies requirements for cellulosic fiber insulating board, a type of thermal insulation material. Type II designates water-resistant board intended for applications requiring low water absorption and high moisture resistance, such as in certain roofing, sheathing, or siding installations where exposure to moisture is a concern.

FM 1-90 is a wind uplift classification established by FM Global, an insurance and risk management company, which sets the standard for how well a roofing system can withstand wind pressures. The FM 1-90 designation means the roofing assembly is capable of resisting uplift pressures of 90 pounds per square foot. To test for this standard, a roofing system is subjected to controlled laboratory conditions that simulate the dynamic effects of wind. The testing process involves securing the roofing assembly to a test chamber, then increasing air pressure below the roofing system to mimic the uplifting force of wind until it reaches the threshold of 90 pounds per square foot without experiencing failure or significant damage.



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