

Cover Board Options

High-Density Polyisocyanurate Cover Boards

Cover Board	Thickness	Direct Membrane Attachment
InsulBase HD	½"	Mechanically-Fastened
SecurShield HD	½"	Fully-Adhered Mechanically-Fastened
SecurShield HD Plus	½"	Fully-Adhered
SecurShield HD RL	½"	Hook & Loop

Gypsum Cover Boards

DensDeck™	¼", ½", ¾"	Mechanically-Fastened
DensDeck Prime	¼", ½", ¾"	Fully-Adhered Mechanically-Fastened
DensDeck Profast™ Prime	¾"	Fully-Adhered Mechanically-Fastened
DensDeck StormX™	¾"	Fully-Adhered Mechanically-Fastened
SECUROCK™ Glass-Mat	¼", ¾", ½", ¾"	Mechanically-Fastened
SECUROCK Coated Glass-Mat	¼", ½", ¾"	Fully-Adhered Mechanically-Fastened
SECUROCK Gypsum Fiber	¼", ¾", ½", ¾"	Fully-Adhered Mechanically-Fastened
SECUROCK Weather Defense	¾"	Fully-Adhered Mechanically-Fastened
DEXcell®	¼", ½", ¾"	Mechanically-Fastened
DEXcell FA VSH®	¾"	Fully-Adhered Mechanically-Fastened
DEXcell FA® Glass Mat Roof Board	¼", ½", ¾"	Fully Adhered Mechanically-Fastened
DEXcell Cement Roof Board	¾", ¾"	Fully Adhered Mechanically-Fastened

Composite Cover Boards

SecurShield HD Composite (HD Polyiso & Polyiso)	1½" – 4½"	Fully-Adhered Mechanically-Fastened
StormBase™ Composite (OSB & Polyiso)	1½" – 4½"	Fully-Adhered Mechanically-Fastened
SecurShield HD EPS Composite (HD Polyiso & Expanded Polystyrene)	1½" – 6"	Fully-Adhered Mechanically-Fastened

Other

EcoStorm VSH (Recycled)	½"	Fully-Adhered Mechanically-Fastened
R-Tech® Fan Fold (Expanded Polystyrene)	½"	Mechanically-Fastened
HP Recovery Board (Wood Fiber)	½" – 1"	Fully-Adhered Mechanically-Fastened



Installation Requirements

- » Insulation should be protected from flame and kept dry at all times
- » Install only as much insulation as can be covered the same day by roof-covering material
- » Never leave more than a ¼" gap between insulation boards
- » Never put an insulation fastener less than 6" from a board edge

Installation Recommendations

- » Install insulation in a minimum of 2 layers to reduce thermal loss
- » Stagger insulation joints a minimum of 6" from subsequent and adjacent insulation joints
- » Make square cuts on insulation boards to reduce gapping issues
- » Remove dust and debris from insulation surfaces before membrane installation

Storage Recommendations

1. Store bundles flat and upright with the bottom of the bundles elevated 2" or more above a finished surface.
2. Slit the bundle packaging vertically down the center of the two short sides to prevent moisture accumulation within the package.
3. Completely cover the bundle with a waterproof tarp and secure to prevent wind damage and/or displacement.

EXPERIENCE THE CARLISLE DIFFERENCE



Insulation Options

Polyisocyanurate Insulation Glass Reinforced Felt (GRF) Facers

Insulation	Thickness	Direct Membrane Attachment
InsulBase®	½" – 4½" (available in taper)	Fully-Adhered Mechanically-Fastened Ballasted
InsulBase NH	½" – 4½" (available in taper)	Fully-Adhered Mechanically-Fastened Ballasted
InsulBase RL™	2", 2.6"	Hook & Loop

Polyisocyanurate Insulation Coated Glass Facers (CGF)

SecurShield™	½" – 4½" (available in taper)	Fully-Adhered Mechanically-Fastened Ballasted
SecurShield NH	½" – 4½" (available in taper)	Fully-Adhered Mechanically-Fastened Ballasted
SecurShield RL	2", 2.6"	Hook & Loop

Expanded Polystyrene (EPS)

InsulFoam Flat	½" – 40" (available in taper)	Mechanically-Fastened
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Extruded Polystyrene (XPS)

Owens Corning FOAMULAR®	½" – 4" (available in taper)	Mechanically-Fastened
Dow DECKMATE™ Plus	1" – 4" (available in taper)	Mechanically-Fastened

Vacuum Insulated Panels (VIP)

ADVANC-R® VIP	24mm (0.94")	Fully-Adhered
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Mineral Wool

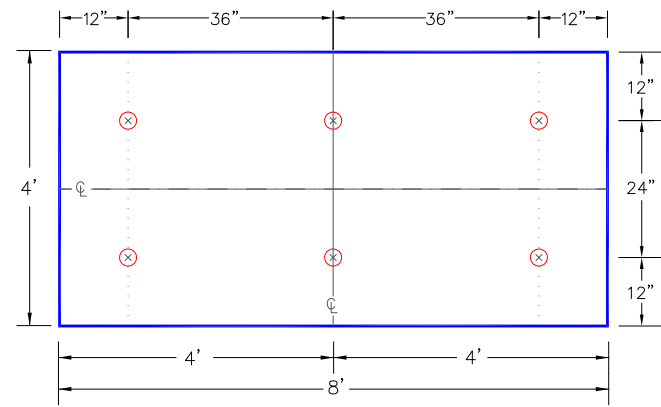
TOPROCK® DD	2" – 6"	N/A
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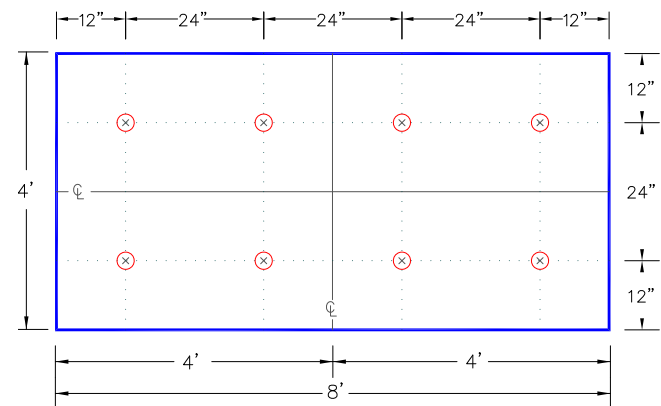
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Insulation Field Guide

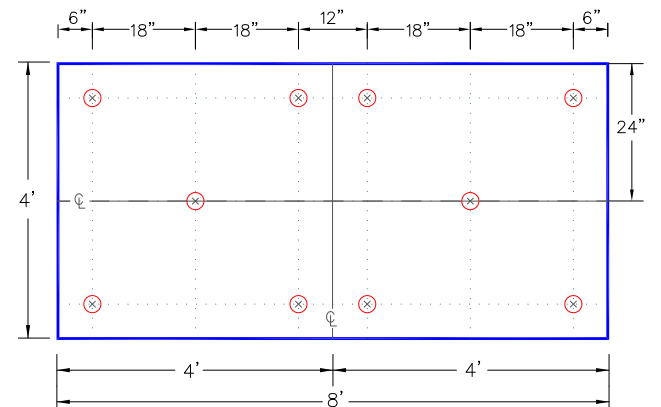
Fastening



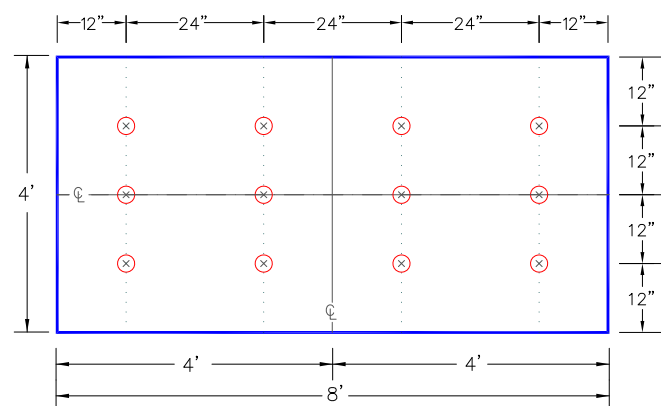
6 Insulation Fasteners & Plates



8 Insulation Fasteners & Plates



10 Insulation Fasteners & Plates



12 Insulation Fasteners & Plates

Adhered Membranes

Top Layer Fastening for Field

- » Decking: 22 gauge steel, structural concrete, 1.5" wood plank, 3/4" plywood
- » Building height: Less than 50 ft.

Up to 20 year warranty (# Fasteners per 4' x 8' Board)

55\72 MPH	<ul style="list-style-type: none"> • 1" 20psi Polyiso (16) • 1 1/2" 20psi Polyiso (10) • 2" 20psi Polyiso (8) • 1/2" SecurShield HD (12) • 1/2" SecurShield HD Plus (8) • 2" SecurShield HD Comp (6) • StormBase (8) • 1/4" DensDeck Prime (12) • 1/4" SECUROCK Gypsum Fiber/Coated Glass-Mat (12) • 1/2" DensDeck Prime (8) • 3/8" DensDeck ProFast Prime (8) • 1/2" SECUROCK Gypsum Fiber/Coated Glass-Mat (8) • 1/2" DEXcell Glass Mat/FA Glass Mat (8) • 1/4" DEXcell Glass Mat/FA Glass Mat (12) • 1/2" EcoStorm VSH (8)
80 MPH	<ul style="list-style-type: none"> • 1 1/2" 25psi Polyiso (10) • 2" 25psi Polyiso (8) • 2" 20psi SecurShield (8) • 1/2" SecurShield HD (16) • 1/2" SecurShield HD Plus (8) • 2" SecurShield HD Comp (6) • StormBase (8) • 1/2" DensDeck Prime (8) • 3/8" DensDeck ProFast Prime (8) • 7/16" DEXcell Cement Board (8) • 1/2" DEXcell Glass Mat/FA Glass Mat (8) • 1/2" SECUROCK Gypsum Fiber/Coated Glass-Mat (8) • 1/2" EcoStorm VSH (8)
90 MPH	<ul style="list-style-type: none"> • 1 1/2" SecurShield (16) • 2" SecurShield (8) • 1/2" SecurShield HD (16) • 1/2" SecurShield HD Plus (12) • 2" SecurShield HD Comp (8) • StormBase (8) • 1/2" DensDeck Prime (12) • 3/8" DensDeck ProFast Prime (8) • 7/16" DEXcell Cement Board (12) • 1/2" DEXcell Glass Mat/FA Glass Mat (12) • 1/2" SECUROCK Gypsum Fiber/Coated Glass-Mat (12) • 1/2" EcoStorm VSH (12)
100 MPH	<ul style="list-style-type: none"> • 2" 25psi SecurShield (16) • 1/2" SecurShield HD Plus (16) • 2" SecurShield HD Comp (16) • StormBase (16) • 3/8" DensDeck Prime (16) • 5/8" DEXcell Glass Mat/FA Glass Mat (16) • 5/8" DEXcell Cement Board (16) • 5/8" SECUROCK Gypsum Fiber/Coated Glass-Mat (16) • 1/2" EcoStorm VSH (16)
110 MPH	<ul style="list-style-type: none"> • 1/2" SecurShield HD Plus (16) • 2" SecurShield HD Comp (16) • StormBase (16) • 3/8" DensDeck Prime (16) • 5/8" DEXcell Cement Board (16) • 5/8" DEXcell Glass Mat/FA Glass Mat (16) • 5/8" SECUROCK Gypsum Fiber/Coated Glass-Mat (16) • 1/2" EcoStorm VSH (16)
120 MPH	<ul style="list-style-type: none"> • 1/2" SecurShield HD Plus (24) • 2" SecurShield HD Comp (16) • StormBase (16) • 3/8" DensDeck Prime (16) • 5/8" SECUROCK Weather Defense (16) • 5/8" DEXcell Cement Board (16) • 5/8" DensDeck StormX (16) • 5/8" DEXcell Glass Mat/FA Glass Mat (16) • 5/8" DEXcell FA VSH (16) • 5/8" SECUROCK Gypsum Fiber/Coated Glass-Mat (16) • 1/2" EcoStorm VSH (16)

This data and information is intended as a general guide and should not be used as a project specific, specification guideline.

Adhered Membranes

Top Layer Polyurethane Attachment

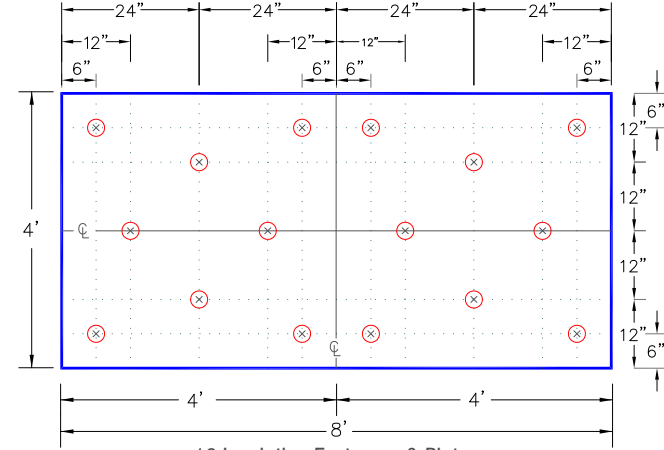
- » Decking: structural concrete and lightweight structural concrete
- » Building height: Less than 50 ft.

Up to 20 Year Warranty Bead Spacing for Field (F) and Perimeter (P)

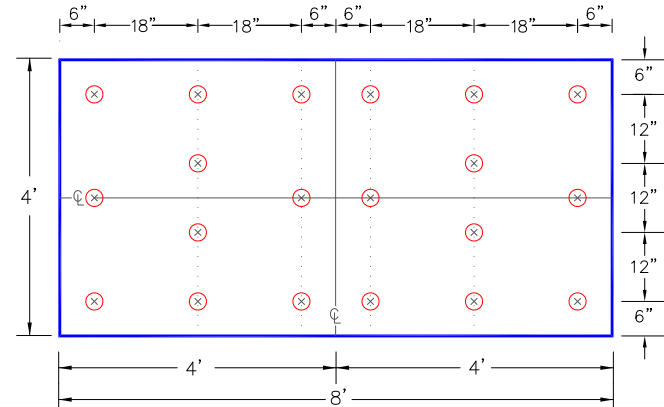
	F	P
55, 72, or 80 MPH	12"	6"
90 MPH	6"	6"
100 MPH	Full Spray	Full Spray
110 MPH	Full Spray	Full Spray
120 MPH	Full Spray	Full Spray

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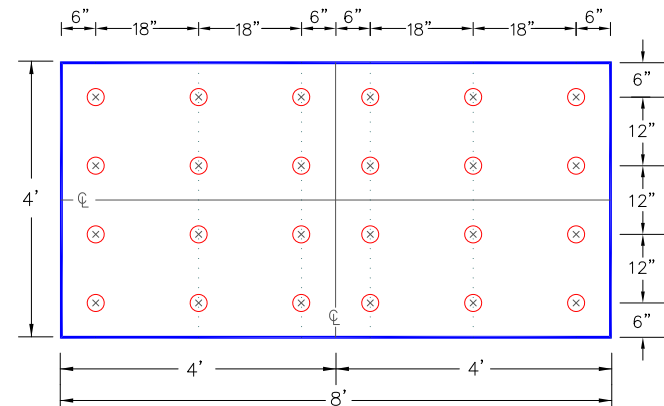
Fastening



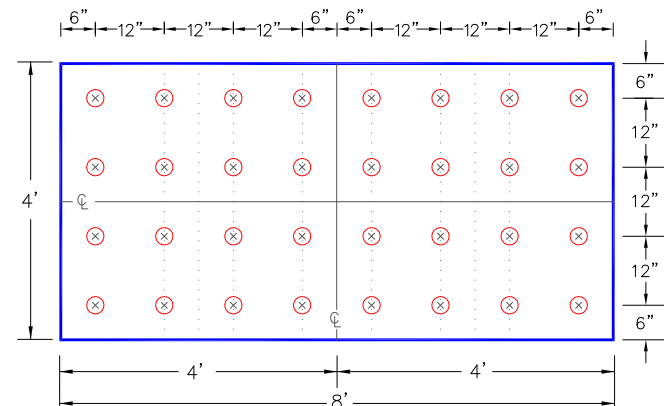
16 Insulation Fasteners & Plates



20 Insulation Fasteners & Plates



24 Insulation Fasteners & Plates



32 Insulation Fasteners & Plates