

# TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104  
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## PRODUCT EVALUATION

Effective June 1, 2012

RC-330

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **May 2016**.*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

**PrimeSource Building Products, Inc. Modified Bitumen** marketed by

**PrimeSource Building Products, Inc.**  
**333 Manley Street**  
**West Bridgewater, MA 02379**  
**(508) 436-6100**

will be accepted in designated catastrophe zones along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

## PRODUCT DESCRIPTION

**GripRite APP Smooth**, APP modified bitumen smooth surfaced roll roofing membrane intended for heat fused (torch) application only as a base, interply or cap sheet.

**GripRite APP Granulated**, APP modified bitumen granule surfaced roll roofing membrane intended for heat fused (torch) application only as a cap sheet.

**GripRite SBS Granulated**, SBS modified bitumen granule surfaced polyester mat roll roofing products are intended for use as a cap sheet in hot or cold applied systems.

**GripRite Premium Granulated SBS**, SBS modified bitumen granule surfaced polyester mat roll roofing products are intended for use as a cap sheet.

**GripRite Premium Granulated SBS FR**, SBS modified bitumen fire-resistant granule surfaced polyester mat roll roofing products are intended for use as a cap sheet.

**GripRite Premium Smooth APP**, APP modified bitumen smooth surfaced roll roofing membrane intended for heat fused (torch) application only as a base, interply or cap sheet.

**GripRite Premium Granulated APP, GripRite Premium Granulated APP FR**, APP modified bitumen granule surfaced roll roofing membrane intended for heat fused (torch) application only as a cap sheet.

### LIMITATIONS

**For All Applications:** Roof decks, on which this product is to be installed, shall be provided with positive drainage. A minimum roof slope after construction of 1/4 inch per foot is recommended.

### INSTALLATION INSTRUCTIONS

**General Installation Requirements:** Follow all manufacturer's installation instructions, unless otherwise specified by this product evaluation.

TABLE 1: MECHANICALLY ATTACHED ANCHOR SHEET, BONDED INSULATION, BONDED ROOF COVER								
Assembly No.	Deck	Anchor Sheet		Insulation		Roof Cover		
		Type	Attach	Base	Top	Base	Ply	Cap
1A.	Min. 15/32-inch APA plywood panel sheathing, Exposure 1, 40/20	ASTM D4601 (Type II)	Trufast 3" Metal Insulation Plates with TP or DP fasteners with a minimum length of 1-5/8" or 3" round PlyFast Standard Metal Plate with PlyFast #10 TP or #12 CDP fasteners with a minimum length of 1-5/8" or OMG 3" Galvalume Plates with OMG Standard fasteners with a minimum length of 1-5/8" or OMG #14 HD fasteners with a minimum length of 1 3/4"	Min. 1.5-inch Polyisocyanurate Insulation, hot asphalt applied	Min. 0.5-inch Structodek HD Fiberboard, SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime or min. 0.75-inch FescoBoard, hot asphalt applied	Hot asphalt or heat fused <sup>C</sup> . (Heat fuse to SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime only)	(Optional) Hot asphalt or heat fused <sup>D</sup>	Hot asphalt or heat fused <sup>E</sup>
1B.	Min. 15/32-inch APA plywood panel sheathing, Exposure 1, 40/20	ASTM D4601 (Type I or II)	Trufast 3" Metal Insulation Plates with TP or DP fasteners with a minimum length of 1-5/8" or 3" round PlyFast Standard Metal Plate with PlyFast #10 TP or #12 CDP fasteners with a minimum length of 1-5/8"	Min. 1.5-inch Polyisocyanurate Insulation, hot asphalt applied	Min. 0.5-inch Structodek HD Fiberboard, SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime or min. 0.75-inch FescoBoard, hot asphalt applied	Hot asphalt or heat fused <sup>C</sup> . (Heat fuse to SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime only)	(Optional) Hot asphalt or heat fused <sup>D</sup>	Hot asphalt or heat fused <sup>E</sup>
<b>Design Pressure (psf)</b>		<b>Anchor Sheet Attachment</b>						
0 < P ≤ 75		6-inch o.c. at 3-inch laps and 12-inch o.c. at two, equally spaced, staggered center rows.						
75 < P ≤ 85		6-inch o.c. at 3-inch laps and 9-inch o.c. at two, equally spaced, staggered center rows.						
85 < P ≤ 105		6-inch o.c. at 3-inch laps and 6-inch o.c. at two, equally spaced, staggered center rows.						
105 < P ≤ 135		6-inch o.c. at 3-inch laps and 6-inch o.c. at three, equally spaced, staggered center rows.						

TABLE 2: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attach	Type	Attach	Base	Ply	Cap
2A.	Min. 15/32-inch APA wood structural panel sheathing, Exposure 1, 40/20	Min. 1.5-inch ISO 95+ GL, ACFoam II, ACFoam III, ACFoam IV, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA-3	Trufast 3" Metal Insulation Plates with Trufast TP or DP fasteners with a minimum length of 3¾" or 3" round PlyFast Standard Metal Plate with PlyFast #10 TP or #12 CDP fasteners with a minimum length of 3¾" or OMG 3-inch Galvalume Plates with OMG Heavy Duty fasteners with a minimum length of 3".	Min. 0.5-inch Structodek HD Fiberboard, SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime or min. 0.75-inch FescoBoard	Hot asphalt	Hot asphalt or heat fused <sup>C</sup> (Heat fuse to DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board only)	(Optional) Hot asphalt or heat fused <sup>D</sup>	Hot asphalt or heat fused <sup>E</sup>

**Required Insulation Board Fastener Spacing and Pattern to Attain Design Pressure (psf)**

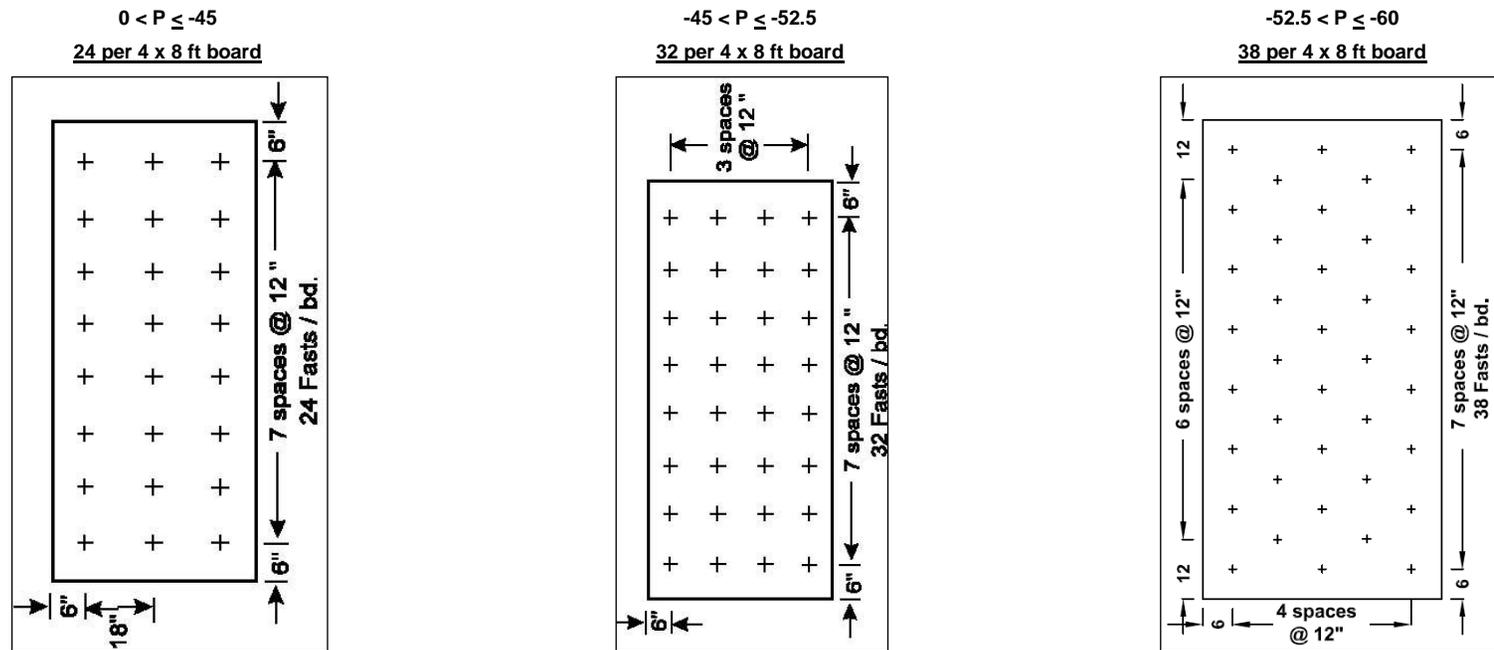
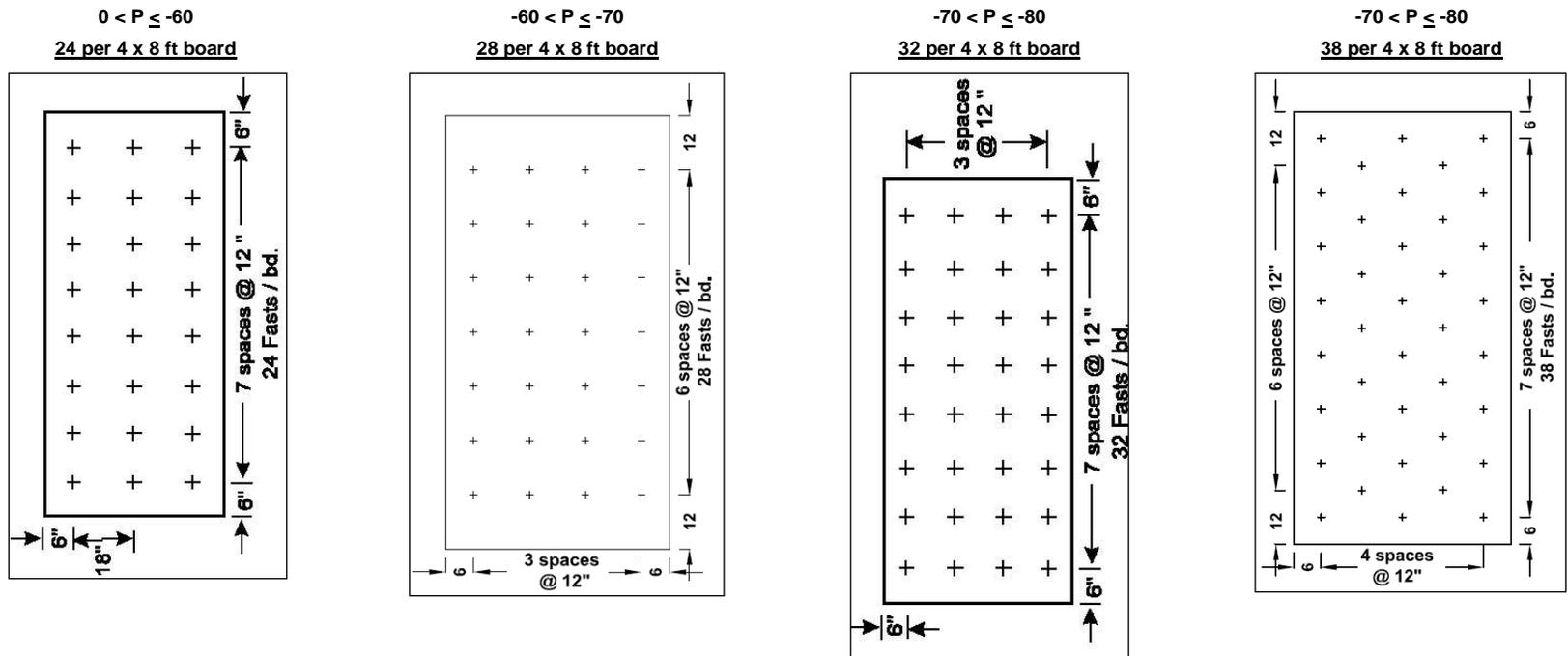


TABLE 2: MECHANICALLY ATTACHED BASE INSULATION, BONDED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attach	Type	Attach	Base	Ply	Cap
2B.	Min. 15/32-inch APA plywood panel sheathing, Exposure 1, 40/20	Min. 1.5-inch ISO 95+ GL, ACFoam II, ACFoam III, ACFoam IV, H-Shield, H-Shield CG, ENRGY 3 or Multi-Max FA-3	Trufast 3" Metal Insulation Plates with Trufast TP or DP fasteners with a minimum length of 3¾" or 3" round PlyFast Standard Metal Plate with PlyFast #10 TP or #12 CDP fasteners with a minimum length of 3¾" or OMG 3-inch Galvalume Plates with OMG Heavy Duty fasteners with a minimum length of 3".	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board or DensDeck Prime	Hot asphalt	Hot asphalt or heat fused <sup>C</sup>	(Optional) Hot asphalt or heat fused <sup>D</sup>	Hot asphalt or heat fused <sup>E</sup>

**Required Insulation Board Fastener Spacing and Pattern to Attain Design Pressure (psf)**



**TABLE 3: MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER**

Assembly No.	Deck	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attach	Type	Attach	Base	Ply	Cap
3A.	Min. 15/32-inch APA wood structural panel sheathing, Exposure 1, 40/20	Min. 1.5-inch polyisocyanurate insulation	Loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast 3" Metal Insulation Plates with Trufast TP or DP screws or 3" round PlyFast Standard Metal Plate with PlyFast #10 TP or #12 CDP fasteners. Fasteners shall have a minimum length of 3¾".	Hot asphalt or heat fused <sup>C</sup>	(Optional) Hot asphalt or heat fused <sup>D</sup>	Hot asphalt or heat fused <sup>E</sup>

**Required Insulation Board Fastener Spacing and Pattern to Attain Design Pressure (psf)**

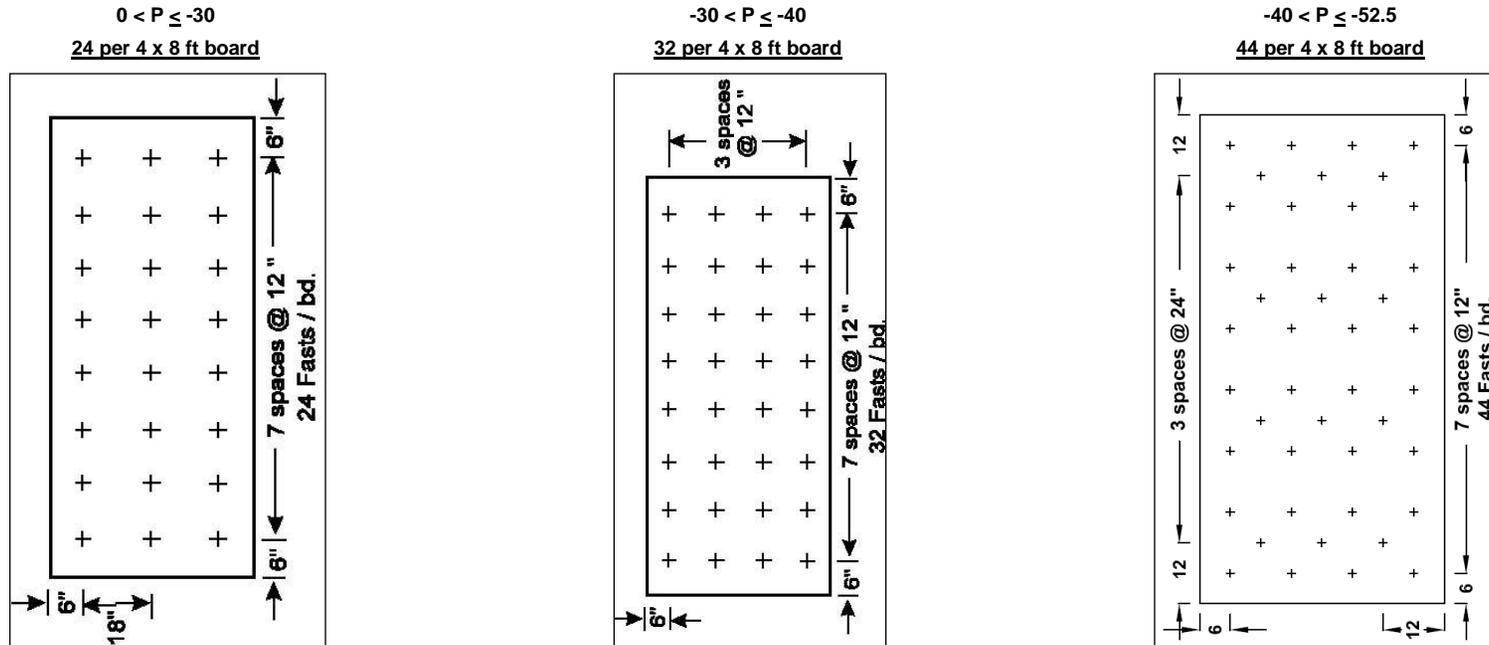


TABLE 3 (continued): MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attach	Type	Attach	Base	Ply	Cap
3B.	Min. 15/32-inch APA wood structural panel sheathing, Exposure 1, 40/20	Min. 1.5-inch polyisocyanurate insulation	Loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	OMG 3" Galvalume Plates with OMG Heavy Duty fasteners with a minimum length of 4".	Hot asphalt or heat fused <sup>C</sup>	(Optional) Hot asphalt or heat fused <sup>D</sup>	Hot asphalt or heat fused <sup>E</sup>

**Required Insulation Board Fastener Spacing and Pattern to Attain Design Pressure (psf)**

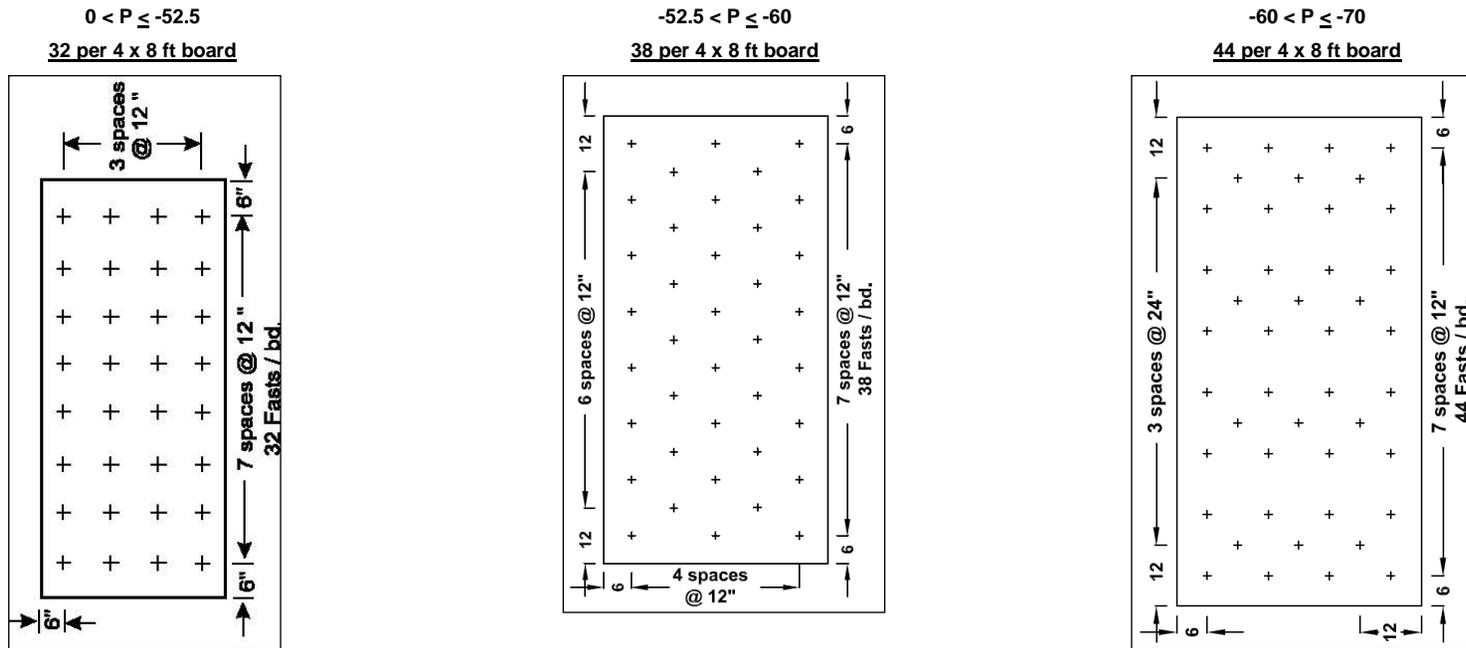
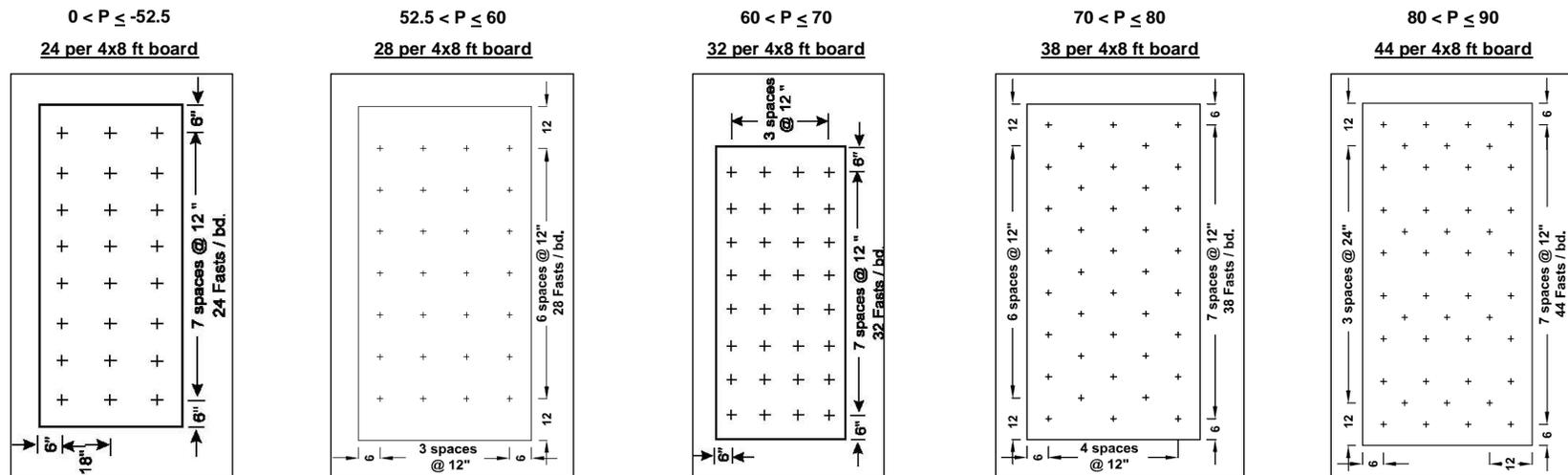


TABLE 3 (continued): MECHANICALLY ATTACHED TOP INSULATION, BONDED ROOF COVER								
Assembly No.	Deck	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attach	Type	Attach	Base	Ply	Cap
3C.	Min. 15/32-inch APA plywood panel sheathing, Exposure 1, 40/20	Min. 1.5-inch polyisocyanurate insulation	Loose laid	Min. 0.25-inch DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Trufast 3" Metal Insulation Plates with Trufast TP or DP fasteners with a minimum length of 3-3/4" or 3" round PlyFast Standard Metal Plate with PlyFast #10 TP or #12 CDP fasteners with a minimum length of 3-3/4" or OMG 3-inch Galvalume Plates with OMG Heavy Duty fasteners with a minimum length of 4".	Hot asphalt or heat fused <sup>C</sup>	(Optional) Hot asphalt or heat fused <sup>D</sup>	Hot asphalt or heat fused <sup>E</sup>

**Required Insulation Board Fastener and Adhesive Spacing and Pattern to Attain Design Pressure (psf)**



**TABLE 4: NON-INSULATED, MECHANICALLY ATTACHED BASE SHEET, BONDED ROOF COVER**

Assembly No.	Deck	Base Sheet		Roof Cover	
		Type	Fasteners	Ply	Cap
4.	Min. 15/32-inch APA wood structural panel sheathing, Exposure 1, 40/20	ASTM D4601 (Type I or II)	Trufast 3" Metal Insulation Plates with Trufast TP or DP fasteners with a minimum length of 1-5/8" or 3" round PlyFast Standard Metal Plate with PlyFast #10 TP or #12 CDP fasteners with a minimum length of 1-5/8" or OMG 3-inch Galvalume Plates with OMG Standard fasteners with a minimum length of 1-5/8" or OMG Heavy Duty fasteners with a minimum length of 1-3/4".	(Optional) Cold Applied <sup>E</sup> ply sheet in USP #330 SBS Modified Adhesive or DuraFlex 901 Premium SBS Modified Adhesive at 1.5 gal/sq <sup>E</sup>	Cold Applied <sup>F</sup> cap sheet in USP #330 SBS Modified Adhesive or DuraFlex 901 Premium SBS Modified Adhesive at 1.5 gal/sq. <sup>F</sup>
<b>Design Pressure (psf)</b>		<b>Base Sheet Attachment</b>			
0 < P ≤ 45		6-inch o.c. at 3-inch laps and 12-inch o.c. at two equally spaced center rows			
45 < P ≤ 50		6-inch o.c. at 3-inch laps and 9-inch o.c. at two equally spaced center rows			
50 < P ≤ 60		6-inch o.c. at 3-inch laps and 6-inch o.c. at two equally spaced center rows			
60 < P ≤ 90		6-inch o.c. at 3-inch laps and 6-inch o.c. at three equally spaced center rows			
90 < P ≤ 110		6-inch o.c. at 3-inch laps and 6-inch o.c. at four equally spaced center rows			
110 < P ≤ 120		6-inch o.c. at 3-inch laps and 6-inch o.c. at five equally spaced center rows			

**Footnotes for Wind Uplift Tables:**

A. Screw and Formed Plate Descriptions:

- PlyFast #10 TP: PlyFast #10 Coated Thread Point Fastener, #3 Phillips truss head, Tru-Kote PC-3 corrosion-resistant coating.
- PlyFast #12 CDP: PlyFast #12 Coated Drill Point Fastener, #3 Phillips truss or hex head, Tru-Kote PC-3 corrosion-resistant coating.
- PlyFast Standard Metal Plate: 3-inch diameter, 26 ga., Galvalume AZ-50
- TruFast TP: Trufast #10 Threaded Point Roofing Fastener, #3 Phillips truss head, Tru-Kote PC-3 corrosion-resistant coating.
- TruFast DP: Trufast #12 DP or DPH Drill Point Fastener, #3 Phillips truss or hex head, Tru-Kote PC-3 corrosion-resistant coating.
- Trufast 3" Metal Insulation Plates: Trufast MP-3-TF or MPH-3-TF Metal Stress Plates, 3-inch diameter, 26 ga., Galvalume AZ-50.
- OMG Standard: OMG #12 Standard Roofing Fastener, #3 Phillips truss head, CR-10 corrosion-resistant coating.
- OMG Heavy Duty: OMG #14 Heavy Duty Roofing Fastener, #3 Phillips truss head, CR-10 corrosion-resistant coating.
- OMG 3" Galvalume Steel Plate: OMG 3" Plate, Cat. No. SPGA3-R, Galvalume coated steel.

B. New wood structural panel sheathing [plywood or oriented strand board (OSB)] and board decking shall be attached to structural supports to meet design pressure requirements of the Texas Department of Insurance applicable windstorm building codes and corresponding Texas Revisions, but not less than the minimum requirements of the 2009 IBC or 2009 IRC. Roof framing members shall be spaced a maximum of 24" o.c.

C. Unless otherwise noted, **BASE SHEET** consists of:

- **For Hot Asphalt Applied:** One ply of ASTM D4601 (Type I or II), ASTM D2178 (Type IV or VI), applied in hot asphalt at 25 lbs/square.
- **For APP Heat Fused:** One ply of GripRite APP Smooth or GripRite Premium Smooth APP.

D. Unless otherwise noted, **PLY SHEET** consists of:

- **For hot asphalt applied:** One or more plies of ASTM D4601 (Type I or II), one or more plies of ASTM D2178 (Type IV or VI), applied in hot asphalt at 25 lbs/square.
- **For APP heat fused:** One ply of GripRite APP Smooth or GripRite Premium Smooth APP.

E. Unless otherwise noted, **CAP SHEET** consists of:

- **For Hot Asphalt Applied:** One ply of GripRite SBS Granulated, GripRite Premium Granulated or GripRite Premium Granulated SBS FR, applied in hot asphalt at 25 lbs/square.
- **For APP Heat Fused:** One ply of GripRite APP Smooth, GripRite APP Granulated, GripRite Premium Smooth APP, GripRite Premium Granulated APP or GripRite Premium Granulated APP FR.

**Note:** The manufacturer's installation instructions shall be on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC) and the International Building Code (IBC).