



Product Evaluation

RC47 | 0515

Engineering Services Program

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 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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

Evaluation ID: RC-47

Effective Date: May 1, 2015

Revised: July 1, 2015

Re-evaluation Date: May 2016

Product Name: CertainTeed Flintlastic Modified Bitumen and Self-Adhered Roof Covering Systems

Manufacturer: CertainTeed Corporation
18 Moores Road
Malvern, PA 19355
(610) 651-5847

General Description:

- **Flintlastic STA** APP modified bitumen smooth surfaced roll roofing products are intended for heat-fused (torch) application.
- **Flintlastic GTS-FR** SBS modified bitumen fire-resistant roll roofing membrane intended for heat-fused (torch) application only.
- **Flintlastic GTS-FR CoolStar** SBS modified bitumen fire-resistant white reflective surfaced roll roofing membrane intended for heat-fused (torch) application only.
- **Flintlastic GMS** SBS modified bitumen granule surfaced roll roofing products are intended for use as a cap sheet.
- **Flintlastic GMS CoolStar** SBS modified bitumen white reflective surfaced roll roofing intended for use as a cap sheet.
- **Flintlastic FR-P SBS** modified bitumen fire-resistant granule surfaced roll roofing products are intended for use as a cap sheet.
- **Flintlastic Premium FR-P** SBS modified bitumen fire-resistant granule surfaced roll roofing products are intended for use as a cap sheet.
- **Flintlastic FR Dual Cap** SBS modified bitumen fire-resistant granule fiberglass mat roll roofing membrane intended for use as a cap sheet.
- **Flintlastic FR Dual Cap CoolStar** SBS modified bitumen fire-resistant white reflective surfaced roll roofing membrane intended for use as a cap sheet.
- **Flintlastic FR-P CoolStar** SBS modified bitumen fire-resistant white reflective surfaced roll roofing products are intended for use as a cap sheet.

- **Flintlastic Premium FR-P CoolStar** SBS modified bitumen fire-resistant white reflective surfaced roll roofing products are intended for use as a cap sheet.
- **Flintlastic FR Cap 30 SBS** modified bitumen fire-resistant fiberglass mat roll roofing membrane intended for use as a cap sheet or as a heavy-duty venting type base sheet.
- **Flintlastic FR Cap 30 T** granule surfaced SBS modified bitumen fire-resistant membrane with fiberglass mat reinforcement for torch application.
- **Flintlastic FR Cap 30 CoolStar SBS** modified bitumen fire-resistant fiberglass mat roll roofing membrane with a white, reflective top surface intended for use as a cap sheet in mop applications.
- **Flintlastic FR Cap 30 T CoolStar SBS** modified bitumen fire-resistant fiberglass mat roll roofing membrane with a white, reflective top surface intended for use as a cap sheet in torch applications.
- **Flintlastic Base 20 SBS** modified bitumen, fire resistant, coated fiberglass base sheet intended for hot asphalt applications.
- **Flintlastic Base 20 T SBS** modified bitumen, fire resistant, coated fiberglass base sheet intended for heat-fused (torch) application.
- **Flintglas Ply Sheet Type IV** is a fiberglass reinforced, asphalt impregnated ply sheet.
- **Flintglas Premium Ply Sheet Type VI** is a fiberglass reinforced, asphalt impregnated base/ply sheet.
- **Flintglas Cap Sheet Mineral Surfaced Fiber Glass** mat roll roofing membrane intended for use as a cap sheet or as a heavy-duty venting type base sheet.
- **Flintglas Cap Sheet CoolStar** white reflective surfaced fiber glass mat roll roofing membrane intended for use as a cap sheet.
- **Flintlastic Ultra Poly SMS Base Sheet SBS** modified asphalt coated polyester base sheet designed for use as a base sheet for hot and cold applied SBS modified bitumen or built-up roofing.
- **Flintlastic GTA APP** modified bitumen roll roofing membrane intended for heat-fused (torch) application only.
- **Flintlastic GTA-FR APP** modified bitumen fire-resistant roll roofing membrane intended for heat-fused (torch) application only.
- **Flintlastic GTA CoolStar APP** modified bitumen roll roofing membrane intended for heat-fused (torch) application only.
- **Flintlastic GTA-FR CoolStar APP** modified bitumen fire-resistant white reflective surfaced roll roofing membrane intended for heat-fused (torch) application only.
- **Flintlastic SA Cap SBS** modified polyester and fiberglass scrim reinforced granule surfaced cap sheet designed for self-adhered application.
- **Flintlastic SA Cap FR SBS** modified bitumen fire-resistant, fiberglass scrim reinforced, granule surfaced cap sheet designed for self-adhered application.
- **Flintlastic SA Cap CoolStar SBS** modified polyester and fiberglass scrim reinforced white reflective surfaced cap sheet designed for self-adhered application.
- **Flintlastic SA Cap FR CoolStar SBS** modified polyester fire-resistant and fiberglass scrim reinforced white reflective surfaced cap sheet designed for self-adhered application.
- **Flintlastic SA Mid Ply SBS** modified bitumen, polyester/fiberglass scrim reinforced film surfaced base or ply sheet designed for self-adhered application.
- **Flintlastic SA PlyBase SBS** modified bitumen, fiberglass scrim reinforced film surfaced base or ply sheet designed for self-adhered application.
- **Flintlastic SA NailBase SBS** modified fiberglass reinforced film surfaced base sheet designed for use as a base sheet under self-adhered applications.
- **Glasbase™** Base Sheet fiberglass reinforced, asphaltic base sheet.
- **All Weather/Empire Base Sheet** fiberglass reinforced, asphaltic base sheet.
- **Flexiglas Base Sheet** fiberglass reinforced, SBS modified asphaltic base sheet.

- **Flintlastic Poly SMS Base Sheet** polyester reinforced, SBS modified, asphaltic base sheet.
- **Black Diamond™** Base Sheet SBS modified bitumen, fiberglass scrim reinforced film, fine-mineral surfaced base or ply sheet designed for self-adhered application.
- **Yosemite Venting Base Sheet** is a heavy duty fiberglass mat surfaced with mineral granules and embossed channels for venting moisture.
- **Flintlastic Ultra Glass SA SBS** modified bitumen, fiberglass scrim reinforced film, fine-mineral surfaced base or ply sheet designed for self-adhered application.
- **Flintlastic APP Base-T** fiberglass mat surfaced, SBS modified asphaltic base sheet.
- **Flintprime SA Water-Based Polymer Modified Primer** designed for priming fasteners, and roof decks under self-adhered membranes.

Limitations:

For All Applications: Provide with positive drainage when installing on roof decks. Install on a minimum roof slope after construction of 1/4" per foot.

Installation Instructions:

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

TABLE 1: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}									
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
1.	Min. 15/32" APA wood structural panel sheathing, Exposure 1, 32/16; or nominal 1" board decking.	None	N/A	None	N/A	CertainTeed Glasbase™ Base Sheet (Type II)	Cap nails ^B with a min. 1" diameter by 0.032" thick cap and a 0.120" diameter galvanized annular ring shank	(Optional) Applied in hot asphalt ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure (psf)

Base Sheet Fastener Spacing

0 < P ≤ -48	Maximum 7" o.c. in a 4" lap and 10" o.c. in two equally spaced, staggered rows in the field of the sheet
-48 < P ≤ -60	Maximum 7" o.c. in a 4" lap and 7" o.c. in two equally spaced, staggered rows in the field of the sheet
-60 < P ≤ -70	Maximum 8" o.c. in a 4" lap and 8" o.c. in three equally spaced, staggered rows in the field of the sheet
-70 < P ≤ -80	Maximum 7" o.c. in a 4" lap and 7" o.c. in three equally spaced, staggered rows in the field of the sheet
-80 < P ≤ -84	Maximum 6" o.c. in a 4" lap and 6" o.c. in three equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
2.	Min. 15/32" APA wood structural panel sheathing, Exposure 1, 32/16, or nominal 1" board decking.	None	N/A	None	N/A	CertainTeed Glasbase™ Base Sheet (Type II)	3" diameter by 0.021-inch thick formed steel discs and No. 12-13, No. 3 Phillips drive, truss head corrosion resistant screws ^C	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic GMS or Flintlastic GMS CoolStar applied in FlintBond Brush at 1.5 gal/square.

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -40 Maximum 7" o.c. in a 4" lap and 10" o.c. in two equally spaced, staggered rows in the field of the sheet
- 40 < P ≤ -50 Maximum 7" o.c. in a 4" lap and 7" o.c. in two equally spaced, staggered rows in the field of the sheet
- 50 < P ≤ -60 Maximum 6" o.c. in a 4" lap and 6" o.c. in two equally spaced, staggered rows in the field of the sheet
- 60 < P ≤ -80 Maximum 6" o.c. in a 4" lap and 6" o.c. in three equally spaced, staggered rows in the field of the sheet
- 80 < P ≤ -100 Maximum 6" o.c. in a 4" lap and 6" o.c. in four equally spaced, staggered rows in the field of the sheet
- 100 < P ≤ -120 Maximum 6" o.c. in a 4" lap and 6" o.c. in five equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
3.	Min. 15/32" APA wood structural panel sheathing, Exposure 1, 32/16; or nominal 1" board decking.	FlintBoard ISO or FlintBoard _H ISO	Loose laid with staggered joints	Any polyisocyanurate, perlite, or wood fiber, any thickness	Loose laid	CertainTeed Glasbase Base™ Sheet (Type II)	3" diameter by 0.021-inch thick formed steel discs and No. 12-13, No. 3 Phillips drive, truss head corrosion resistant screws ^C	(Optional) Applied in hot asphalt ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -42 Maximum 7" o.c. in a 4" lap and 10" o.c. in two equally spaced, staggered rows in the field of the sheet
- 42 < P ≤ -50 Maximum 7" o.c. in a 4" lap and 7" o.c. in two equally spaced, staggered rows in the field of the sheet
- 50 < P ≤ -60 Maximum 6" o.c. in a 4" lap and 6" o.c. in two equally spaced, staggered rows in the field of the sheet
- 60 < P ≤ -70 Maximum 7" o.c. in a 4" lap and 7" o.c. in three equally spaced, staggered rows in the field of the sheet
- 70 < P ≤ -73.5 Maximum 6" o.c. in a 4" lap and 6" o.c. in three equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
4.	Min. 22-ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5", FlintBoard ISO or FlintBoard _H ISO	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	(Optional) Min. 1/4" DensDeck or SECUROCK Gypsum Fiber- Roof Board	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	Flintlastic Poly SMS Base or Flintlastic Ultra Poly SMS Base Sheet	FlintFast 3" insulation plates with FlintFast #14 within the 4", heat-fused side lap. (Fasteners shall engage top flange of steel deck.)	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -45 Maximum 12" o.c. within a 4" heat-fused lap
- 45 < P ≤ -50 Maximum 12" o.c. within a 4" heat-fused lap and 24" o.c. at one center row
- 50 < P ≤ -60 Maximum 12" o.c. within a 4" heat-fused lap and 18" o.c. at one center row
- 60 < P ≤ -70 Maximum 12" o.c. within a 4" heat-fused lap and 12" o.c. at one center row
- 70 < P ≤ -78 Maximum 12" o.c. within a 4-inch heat-fused lap and 18" o.c. at two, equally spaced, staggered center rows

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
5.	Min. 22-ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5", FlintBoard ISO or FlintBoard _H ISO	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	(Optional) Min. 1/4" DensDeck or SECUROCK Gypsum-Fiber Roof Board	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	Glasbase Base Sheet; Flexiglas Base Sheet; Flintlastic Base 20; All Weather / Empire Base; Flintlastic Poly SMS Base Sheet; Yosemite Venting Base Sheet	FlintFast #12 fasteners with FlintFast 3-inch Insulation Plates (Fasteners shall engage top flange of steel deck.)	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -52.5 Maximum 12" o.c. at a 3" lap and 12" o.c. at two equally spaced, staggered rows in the field of the sheet
- 52.5 < P ≤ -70 Maximum 12" o.c. at a 3" lap and 12" o.c. at three equally spaced, staggered rows in the field of the sheet
- 70 < P ≤ -80 Maximum 12" o.c. at a 3" lap and 12" o.c. at four equally spaced, staggered rows in the field of the sheet
- 80 < P ≤ -92 Maximum 6" o.c. at a 3" lap and 12" o.c. at four equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
6.	Min. 22-ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 1.5", FlintBoard ISO or FlintBoard _H ISO	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	(Optional) Min. 1/4" DensDeck or SECUROCK Gypsum-Fiber Roof Board	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	Flexiglas Base Sheet; Flintlastic Base 20; Flintlastic Poly SMS Base Sheet; Flintlastic Ultra Poly SMS Base Sheet; Yosemite Venting Base Sheet	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates (Fasteners shall engage top flange of steel deck.)	Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -67.5 Maximum 6" o.c. at a 4" lap and 6" o.c. at two equally spaced, staggered rows in the field of the sheet
- 67.5 < P ≤ -90 Maximum 6" o.c. at a 4" lap and 6" o.c. at three equally spaced, staggered rows in the field of the sheet
- 90 < P ≤ -110 Maximum 6" o.c. at a 4" lap and 6" o.c. at four equally spaced, staggered rows in the field of the sheet
- 110 < P ≤ -118 Maximum 6" o.c. at a 4" lap and 6" o.c. at five equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
7.	Min. 22-ga., Type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5", FlintBoard ISO or FlintBoard _H ISO	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	(Optional) Min. 1/4" DensDeck or SECUROCK Gypsum-Fiber Roof Board	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	Flintlastic Poly SMS Base Sheet; Flintlastic Ultra Poly SMS Base Sheet	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates (Fasteners shall engage top flange of steel deck.)	(Optional) Heat-fused ^F	Heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -112.5 Maximum 12" o.c. in a 4" lap and 12" o.c. in two equally spaced, staggered rows in the field of the sheet
- 112.5 < P ≤ -150 Maximum 12" o.c. in a 4" lap and 12" o.c. in three equally spaced, staggered rows in the field of the sheet
- 150 < P ≤ -180 Maximum 12" o.c. in a 4" lap and 12" o.c. in four equally spaced, staggered rows in the field of the sheet
- 180 < P ≤ -196 Maximum 6" o.c. in a 4" lap and 12" v o.c. in four equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
8.	Min. 22-ga., Type B, Grade 80 steel or min. 2,500 psi structural concrete	Min. 1.5", FlintBoard ISO or FlintBoard _H ISO	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	(Optional) Min. 1/4" DensDeck or SECUROCK Gypsum-Fiber Roof Board	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	Flintlastic Poly SMS Base Sheet; Flintlastic Ultra Poly SMS Base Sheet	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates (Fasteners shall engage top flange of steel deck.)	(Optional) Applied in hot asphalt or heat-fused ^F (excluding FR Base 20 T)	Applied in hot asphalt or heat-fused ^G (excluding FR Cap 30 T, FR Cap 30 T CoolStar)

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -120 Maximum 12" o.c. at a 4" lap and 12" o.c. at two equally spaced, staggered rows in the field of the sheet
- 120 < P ≤ -160 Maximum 12" o.c. at a 4" lap and 12" o.c. at three equally spaced, staggered rows in the field of the sheet
- 160 < P ≤ -200 Maximum 12" o.c. at a 4" lap and 12" o.c. at four equally spaced, staggered rows in the field of the sheet
- 200 < P ≤ -210 Maximum 6" o.c. at a 4" lap and 12" o.c. at four equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
9.	Min. 19/32" APA wood structural panel sheathing, Exposure 1, 40/20; or nominal 1" board decking.	None	N/A	None	N/A	Flintlastic SA NailBase	11-ga. annular ring shank nails and 1-5/8" diameter tin caps ^D	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -60 Maximum 8" o.c. at a 3" lap and 8" o.c. at three equally spaced, staggered rows in the field of the sheet
- 60 < P ≤ -70 Maximum 8" o.c. at a 3" lap and 8" o.c. at four equally spaced, staggered rows in the field of the sheet
- 70 < P ≤ -100 Maximum 6" o.c. at a 3" lap and 6" o.c. at four equally spaced, staggered rows in the field of the sheet
- 100 < P ≤ -105 Maximum 6" o.c. at a 3" lap and 6" o.c. at five equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
10.	Min. 19/32" APA wood structural panel sheathing, Exposure 1, 40/20; or nominal 1" board decking.	None	N/A	None	N/A	CertainTeed Glasbase™ Sheet (Type II)	11-ga. annular ring shank nails and 1-5/8" diameter tin caps ^D	(Optional) Applied in hot asphalt ^F	Applied in hot asphalt or heat-fused ^G
11.	Min. 19/32" APA wood structural panel sheathing, Exposure 1, 40/20; or nominal 1" board decking.	None	N/A	None	N/A	Flintlastic SA NailBase	11-ga. annular ring shank nails and 1-5/8" diameter tin caps ^D	Self-adhered ^F	Self-adhered ^G

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -60 Maximum 7" o.c. in a 4" lap and 7" o.c. in three equally spaced, staggered rows in the field of the sheet
- 60 < P ≤ -70 Maximum 7" o.c. in a 4" lap and 8" o.c. in four equally spaced, staggered rows in the field of the sheet
- 70 < P ≤ -90 Maximum 6" o.c. in a 4" lap and 6" o.c. in four equally spaced, staggered rows in the field of the sheet
- 90 < P ≤ -105 Maximum 6" o.c. in a 4" lap and 6" o.c. in five equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Insulation Layer(s)		Roof Cover			
		Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
12.	Min. 19/32" APA plywood sheathing, Exposure 1, 40/20; or nominal 1" board decking.	(Optional) One or more layers, any combination	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	Flintlastic SA NailBase	FlintFast #12 or #14 Fastener with FlintFast 3" Plates NOTE: Stress plates shall be primed with FlintPrime SA	Self-Adhered ^F	Self-Adhered ^G

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -82.5 Maximum 8" o.c. in a 4" lap and 8" o.c. in two equally spaced, staggered rows in the field of the sheet
- 82.5 < P ≤ -90 Maximum 7" o.c. in a 4" lap and 7" o.c. in two equally spaced, staggered rows in the field of the sheet
- 90 < P ≤ -110 Maximum 8" o.c. in a 4" lap and 8" o.c. in three equally spaced, staggered rows in the field of the sheet
- 110 < P ≤ -120 Maximum 9" o.c. in a 4" lap and 9" o.c. in four equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
13.	Min. 15/32" plywood sheathing	None	N/A	None	N/A	GlasBase™ Base Sheet or Flintlastic Poly SMS Base Sheet	1-inch Simplex Metal Cap nails ^B	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G
14.	Min. 15/32" plywood sheathing	None	N/A	None	N/A	Flintlastic SA NailBase	1-inch Simplex Metal Cap nails ^B	Self-Adhered ^F	Self-Adhered ^G

Design Pressure (psf) Base Sheet Fastener Spacing

0 < P ≤ -52.5 Maximum 6" o.c. in a 3" lap and 6" o.c. in four equally spaced, staggered center rows

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
15.	Min. 15/32" plywood sheathing	None	N/A	None	N/A	GlasBase™ Base Sheet; Flexiglas Base Sheet; Flintlastic Base 20; Flintlastic Poly SMS Base Sheet; Flintlastic Ultra Poly SMS Base Sheet; Yosemite Venting Base Sheet	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates ^C	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G
16.	Min. 15/32" plywood sheathing	None	N/A	None	N/A	Flintlastic SA NailBase	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates ^C	Self-Adhered ^F	Self-Adhered ^G

Design Pressure (psf) Base Sheet Fastener Spacing

0 < P ≤ -97.5 Maximum 6" o.c. in a 4" lap and 6" o.c. in three equally spaced, staggered center rows

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
17.	Min. 15/32" plywood sheathing	None	N/A	None	N/A	Glasbase™ Base Sheet; Flexiglas Base Sheet; Flintlastic Base 20; Flintlastic Poly SMS Base Sheet; Flintlastic Ultra Poly SMS Base Sheet; Yosemite Venting Base Sheet	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates ^C	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G
18.	Min. 15/32" plywood sheathing	None	N/A	None	N/A	Flintlastic SA NailBase	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates ^C	Self-Adhered ^F	Self-Adhered ^G

Design Pressure (psf) Base Sheet Fastener Spacing

0 < P ≤ -127.5 Maximum 6-inch o.c. in a 4" lap and 6" o.c. in four equally spaced, staggered center rows

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
19.	Min. 15/32" CDX plywood	None	N/A	None	N/A	Glasbase Base Sheet, Yosemite Venting Base, Flexiglas Base Sheet, All Weather/Empire Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base	Mechanically fastened with Simplex MAXX Cap fasteners	None	(SBS Cap only) Applied in hot asphalt or heat-fused ^G
20.	Min. 15/32" CDX plywood	None	N/A	None	N/A	Flintlastic APP Base T	Mechanically fastened with Simplex MAXX Cap fasteners	None	(APP Cap only) Heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

- 0 < P ≤ -45 Maximum 9" o.c. in a 2" lap and 18" o.c. in two equally spaced, staggered center rows
- 45 < P ≤ -52.5 Maximum 9" o.c. in a 2" lap and 12" o.c. in two equally spaced, staggered center rows
- 80 < P ≤ -90 Maximum 6" o.c. in a 2" lap and 6" o.c. in two equally spaced, staggered center rows
- 90 < P ≤ -105 Maximum 6-inch o.c. in a 2" lap and 6" o.c. in three equally spaced, staggered center rows

TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
21.	Min. 19/32 APA plywood panel sheathing, Exposure 1, 40/20; or nominal 1-inch board decking.	(Optional) One or more layers FlintBoard ISO or FlintBoard _H ISO	Loose laid	Min. 1/4" thick DensDeck primed with FlintPrime SA at 0.3 gal/square.	FlintFast #14 Fasteners with FlintFast 3-inch Plates ^C	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

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

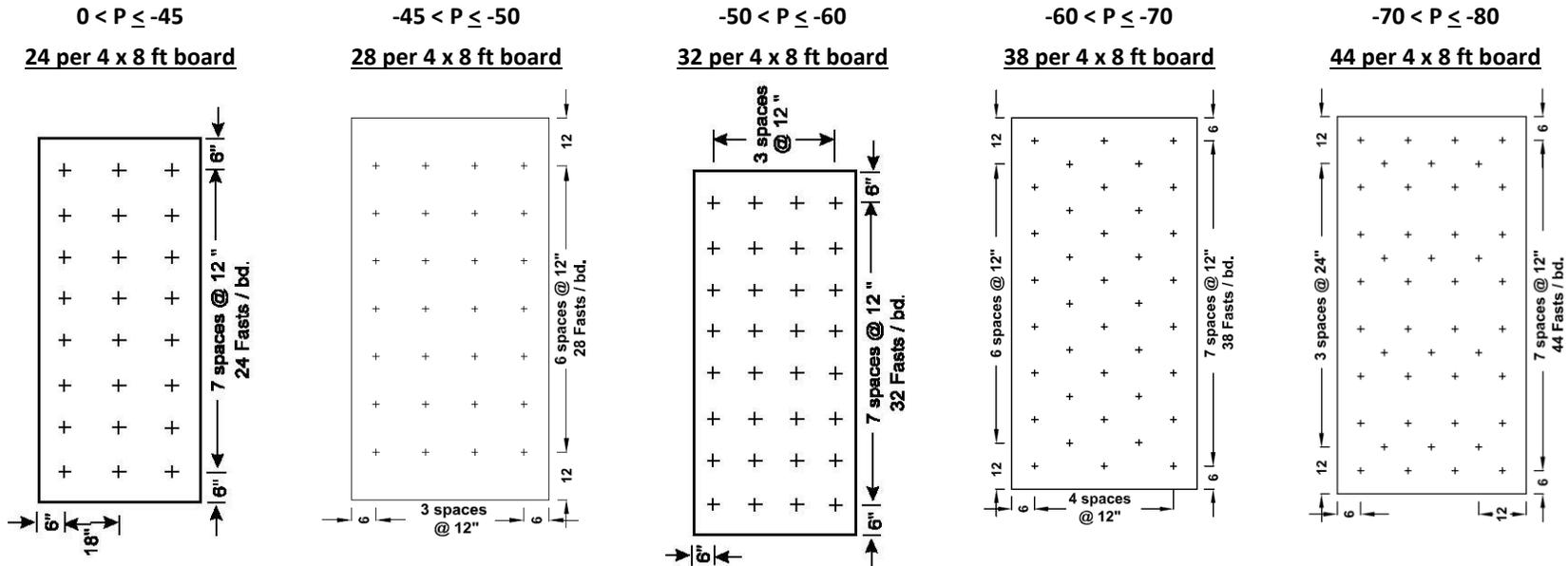


TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
22.	Min. 22-ga., Type B, Grade 33 steel at max. 6 ft spans or min. 2,500 psi structural concrete	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Loose laid	Min. 1/4" DensDeck Prime	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates ^C	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

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

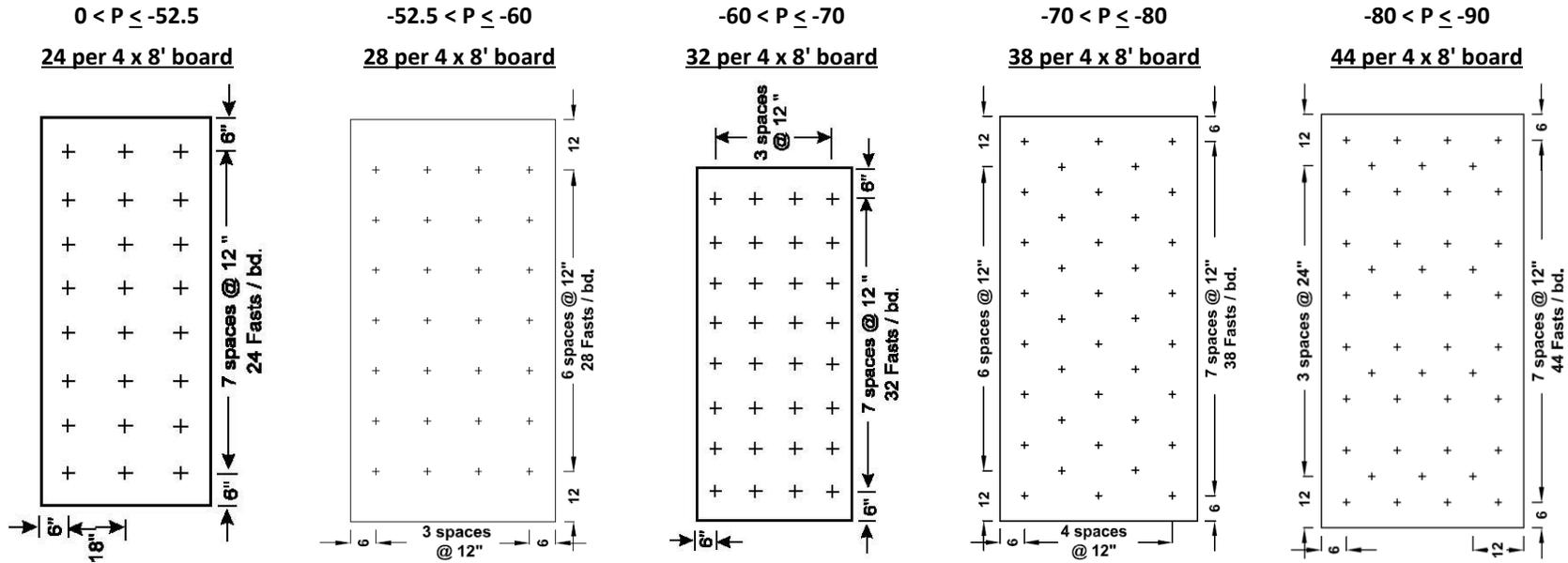


TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
23.	Min. 22 -ga., Type B, Grade 33 steel at max. 6' spans or min. 2,500 psi structural concrete	(Optional) Min. 1.5", One or more layers, any combination	Loose laid	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates ^C	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(Optional) Applied in hot asphalt ^F	Applied in hot asphalt ^G

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

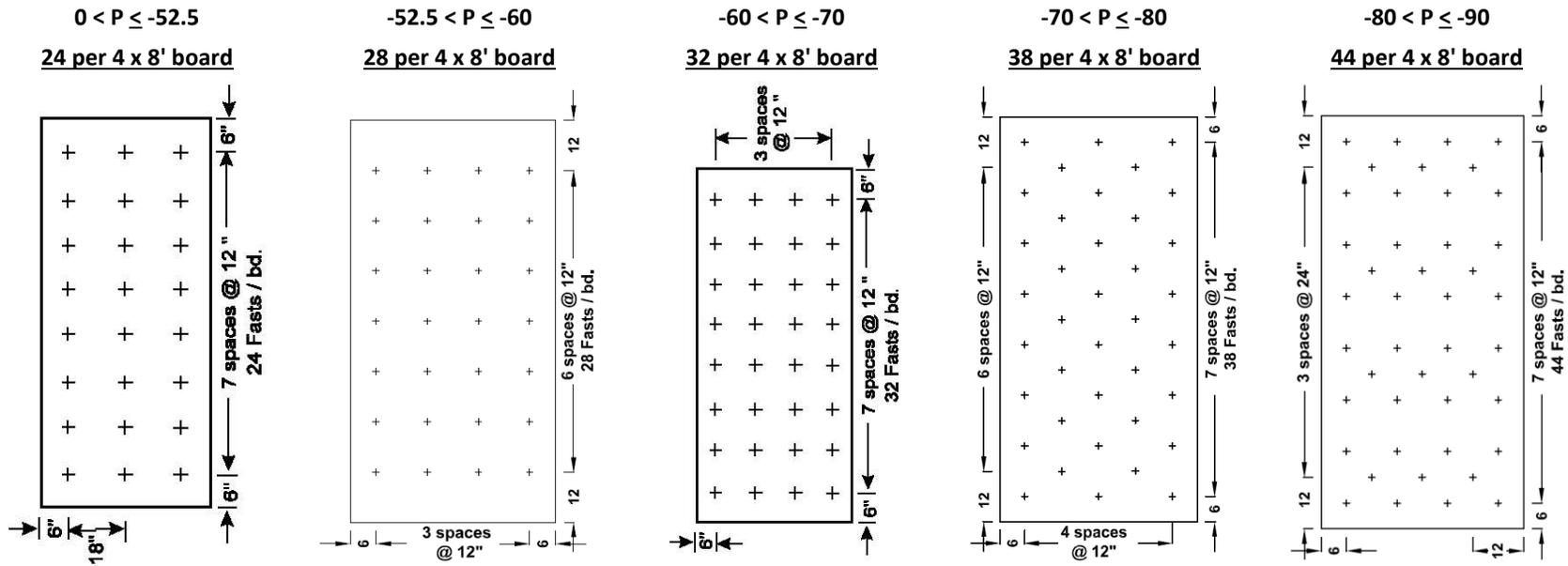


TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
24.	Min. 22-ga., Type B, Grade 33 steel at max. 6' spans or min. 2,500 psi structural concrete	(Optional) Min. 1.5", One or more layers, any combination	Loose laid	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 or #14 Fastener with FlintFast 3-inch Plates ^C	Black Diamond Base Sheet or Flintlastic Ultra Glass SA	(Optional) Heat-fused ^F	Heat-fused ^G

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

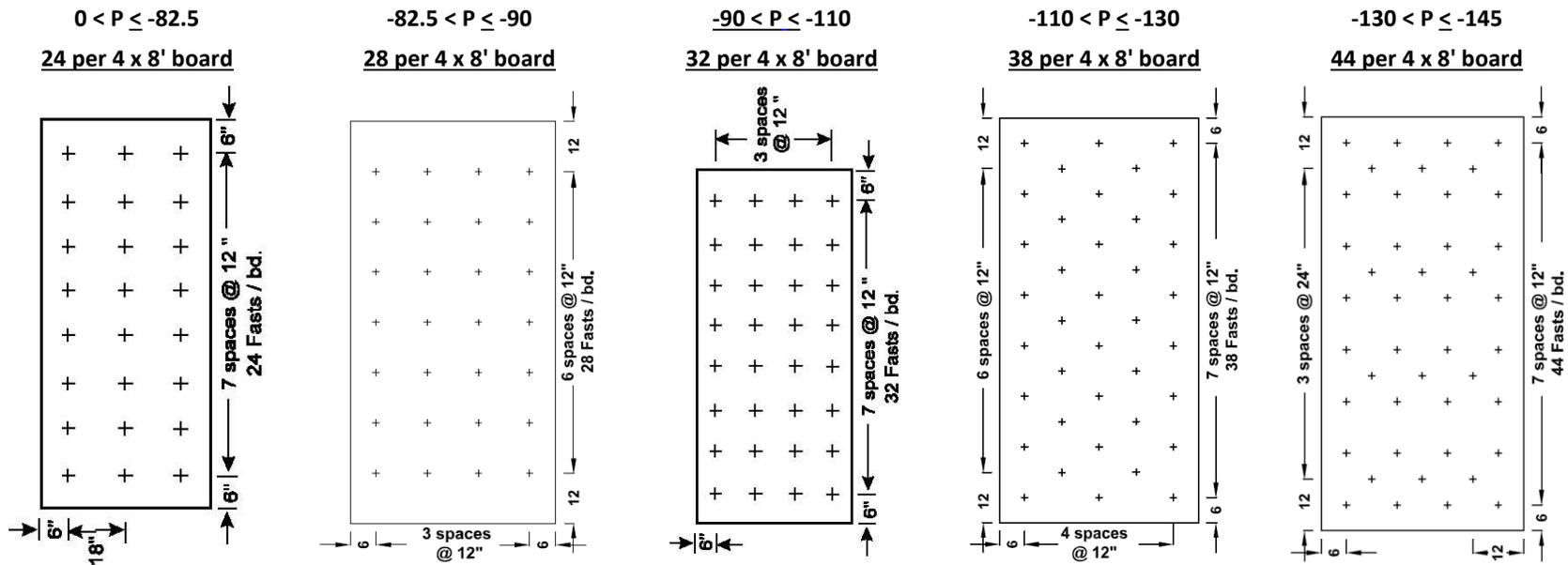


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembl y No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachmen t	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
25.	Min. 19/32" APA plywood panel sheathing, Exposure 1, 40/20; or nominal 1" board decking.	(Optional) One or more layers, any combination	Loose laid	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 Fastener with FlintFast 3" Plates ^C NOTE: Insulation and stress plates shall be primed with FlintPrime SA	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

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

0 < P ≤ -45
16 per 4 x 8' board

-45 < P ≤ -60
22 per 4 x 8' board

-60 < P ≤ -70
26 per 4 x 8' board

-70 < P ≤ -80
28 per 4 x 8' board

-80 < P ≤ -90
32 per 4 x 8' board

-90 < P ≤ -100
38 per 4 x 8' board

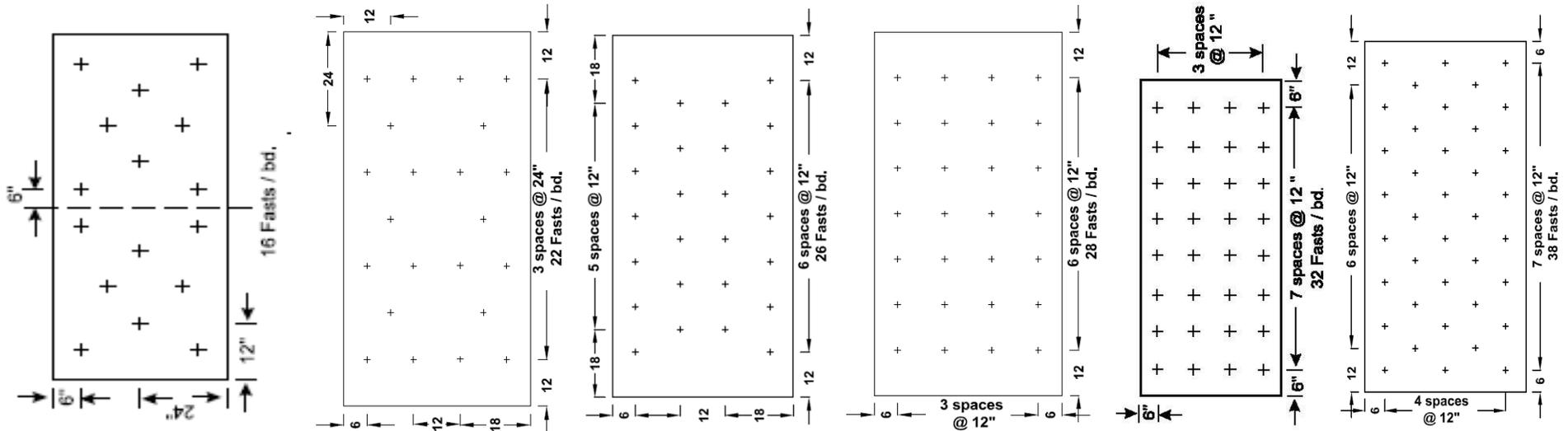


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
26.	Min. 15/32" plywood sheathing	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Loose laid	Min.1/4" SECUROCK Gypsum Fiber Roof Board	FlintFast #12 fasteners and FlintFast 3" Insulation Plates ^C with a fastening density of 1.33ft ² .	(APP Base only) Heat-fused ^E	None	(APP Cap only) Heat-fused ^G

Design Pressure: P ≤ -67.5 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
27.	Min. 15/32" plywood sheathing	Min. 1.5" FlinBoard ISO or FlintBoard _H ISO	Loose laid	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.33ft ²	Self-adhered ^E	(APP Ply only) Heat-fused ^F	(APP Cap only) Heat-fused ^G
28.							None	(SBS Cap only) Heat-fused ^G

Design Pressure: P ≤ -75 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION^{1,2}

Assembly No.	Substrate ^A	Thermal Barrier	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
29.	Concrete (new, recover) or Steel (new)	(Optional) 0.25" DensDeck, SEUROCK Gypsum-Fiber Roof Board or GlasRoc Roof Board, Loose laid	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Loose laid	Min. 1.5" FlintBoard ISO Cold or FlintBoard _H ISO Cold	FlintFast #12 (steel deck only) or FlintFast #14 with FlintFast 3" Insulation Plates ^C with a fastening density of 2ft ²	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 fully adhered with FlintBond Brush at 1ga/sq.	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq
Min. 0.5" SEUROCK Gypsum-Fiber Roof Board									
30.			Min. 2.0" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 (steel deck only) or FlintFast #14 with FlintFast 3" Insulation Plates ^C with a fastening density of 2ft ²	Min. 1.5" FlintBoard ISO Cold or FlintBoard _H ISO Cold	Adhered with OlyBond 500, OlyBond 500 Green Adhesive or Millennium PG-1 Pump Grade Adhesive applied in min. 0.75" wide beads spaced maximum 12" o.c.			
					Min. 0.25" SEUROCK Gypsum-Fiber Roof Board				

Design Pressure: P ≤ -45 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
31.	Steel (Recover)	(Optional) Max. 0.5" FlintBoard ISO or FlintBoard _H ISO	Loose laid	Min. 0.5" SECUROCK Gypsum-Fiber Roof Board	FlintFast #12 with FlintFast 3" Insulation Plates ^C with a fastening density of 2ft ² .	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 fully adhered with FlintBond Brush at 1gal/sq.	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq

Design Pressure: P ≤ **-45 psf**

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
32.	Min. 15/32" plywood sheathing	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.33ft ²	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, Insta-Stick Quik Set Insulation Adhesive, TITASET, OlyBond 500 or OlyBond 500 Green Adhesive applied in min 0.75" wide beads spaced maximum 12" o.c.	Self-adhered ^E	(APP Ply only) Heat-fused ^F	(APP Cap only) Heat-fused ^G
33.	Min. 15/32" plywood sheathing	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.33ft ²	Min 1/2" High Density Wood Fiberboard	Hot Asphalt	Hot asphalt ^E	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure: P ≤ **-67.5 psf**

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
34.	Min. 15/32" plywood sheathing	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.33ft ²	Min. 1/4" SECUROCK Gypsum Fiber Roof Board	Millennium One Step Foamable Adhesive, Millennium PG-1 Pump Grade Adhesive, Insta-Stick Quik Set Insulation Adhesive, OlyBond 500, OlyBond 500 Green Adhesive, 12" o.c.	(APP Base only) Heat-fused ^E	None	(APP Cap only) Heat-fused ^G

Design Pressure: P ≤ -90 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
35.	Min. 22-ga., Type B, Grade 40 steel at max. 6' spans	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.45ft ²	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, Insta-Stick Quik Set Insulation Adhesive, TITASET, OlyBond 500 or OlyBond 500 Green Adhesive applied in min 0.75" wide beads spaced maximum 12" o.c.	Self-adhered ^E	(APP Ply only) Heat-fused ^F	(APP Cap only) Heat-fused ^G

Design Pressure: P ≤ -45 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
36.	Min. 22-ga., Type B, Grade 40 steel at max. 6' spans	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Loose-Laid	Min. 1/4" SECUROCK Gypsum Fiber Roof Board	FlintFast #12 fasteners and FlintFast 3" Insulation Plates ^C with a fastening density of 1.45 ¹²	(APP Base only) Heat-fused ^E	None	(APP Cap only) Heat-fused ^G

Design Pressure: P ≤ -60 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
37.	Min. 22-ga., Type B, Grade 40 steel at max. 6' spans	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Loose-Laid	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.45ft ²	Self-adhered ^E	(APP Ply only) Heat-fused ^F	(APP Cap only) Heat-fused ^G

Design Pressure: P ≤ -75 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
38.	Min. 22-ga., Type B, Grade 40 steel at max. 6' spans	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.45 ¹²	Min. 1/4" SECUROCK Gypsum Fiber Roof Board	Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Insta-Stick Quik Set Insulation Adhesive, OlyBond 500 or OlyBond 500 Green Adhesive, 12" o.c.	(APP Base only) Heat-fused ^E	None	(APP Cap only) Heat-fused ^G

Design Pressure: P ≤ -75 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
39.	Min. 22-ga., Type F, Grade 40 steel at max. 6' spans	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Loose-Laid	Min. 1/2" SECUROCK Gypsum Fiber Roof Board	FlintFast #14 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.0 ¹²	(APP Base only) Heat-fused ^E	None	(APP Cap only) Heat-fused ^G

Design Pressure: P ≤ -105 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
40.	Min. 22-ga., Type B, Grade 33 steel at max. 6' spans	Min. 1.5" FlinBoard ISO or FlintBoard _H ISO,	Loose laid	Min. 1/2" DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	FlintFast #14 fasteners and FlintFast 3" Insulation Plates ^C with a fastening density of 1: 1.33' ²	Applied in hot asphalt ^E	Applied in hot asphalt ^F	Applied in hot asphalt ^G

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

DensDeck Prime

SECUROCK Gypsum Fiber Roof Board

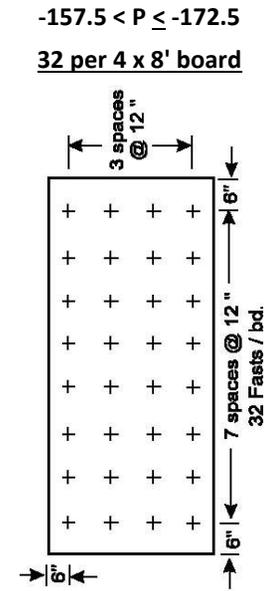
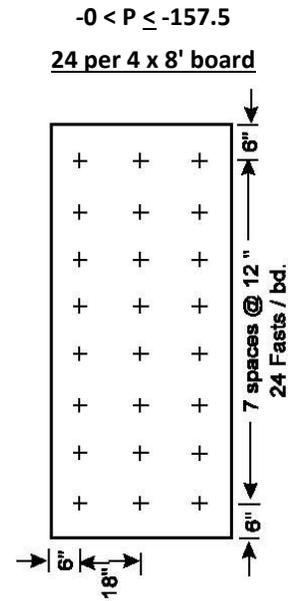
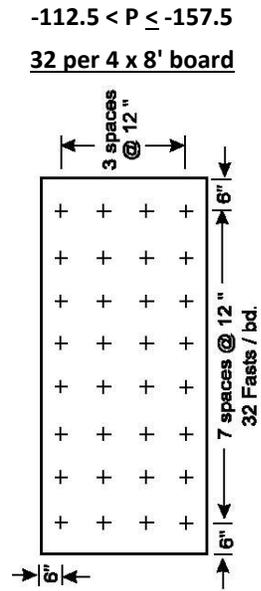
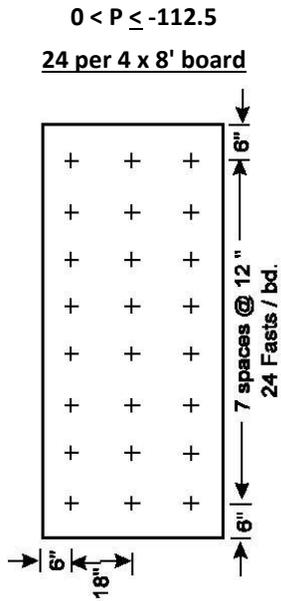


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

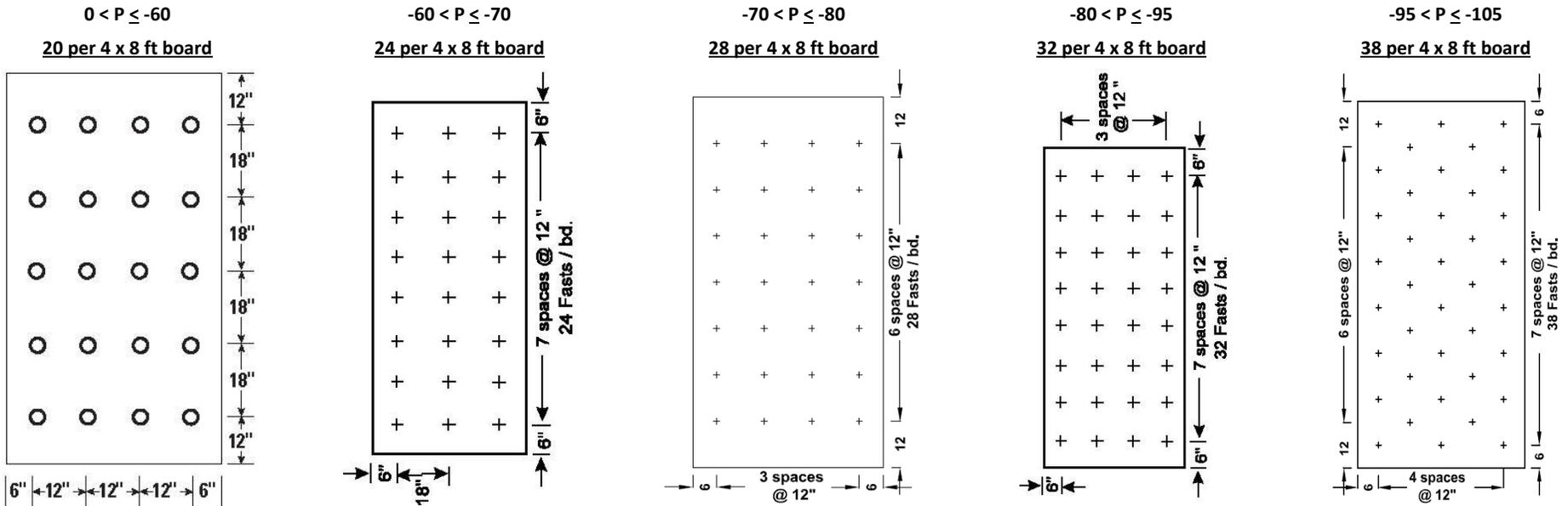
Assembly No.	Substrate ^A	Primer	Thermal Barrier	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
41.	Min. 22-ga., Type B steel at max. 6' spans or min. 2,500 psi structural concrete (new, recover)	None	(Optional) Min. 0.25" DensDeck, SECUROCK Gypsum-Fiber Roof Board or GlasRoc Roof Board Loose laid	Min. 1.5-inch FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 (Steel deck only) or FlintFast #14 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.45 ¹²	None	N/A	Flintlastic Ultra Glass SA, Self-Adhered	None	Applied in hot asphalt or heat-fused ^G

Design Pressure: P ≤ -75 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
42.	Min. 22-ga., Type B, Grade 33 steel or min. 2,500 psi structural concrete	Min. 2.0" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 or #14 Fastener with FlintFast 3" Plates ^C	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board	Dow Insta-Stik Quik Set Insulation Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, OlyBond 500 or OlyBond 500 Green Adhesive in beads spaced maximum 12" o.c.,	Applied in hot asphalt or heat-fused ^E	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G

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



Coverboard Adhesive Ribbons Spacing	
DP (psf)	Ribbon Spacing
0 < P ≤ -60	Max. 12" o.c.
-60 < P ≤ -90	Max. 6" o.c.
-90 < P ≤ -105	Max. 4" o.c.

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
43.	Min. 22-ga., Type B, Grade 33 steel at max. 5' spans	Min. 1.5" FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates ^C with a fastening density of 1.33 ¹²	Min. 1/2" High Density Wood Fiberboard	Hot Asphalt	Applied in Hot Asphalt ^E	(Optional) Applied in hot asphalt or heat-fused ^F	(SBS Cap only) Applied in hot asphalt or heat-fused ^G

Design Pressure: P ≤ **-67.5 psf**

TABLE 3: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED ANCHOR SHEET ^{1,2}

Assembly No.	Substrate ^A	Anchor Sheet		Insulation		Roof Cover		
		Type	Attachment	Base Layer	Top Layer	Base Sheet	Ply Sheet	Cap Sheet
44.	Min. 19/32" APA wood structural panel sheathing, Exposure 1, 40/20; or nominal 1" board decking.	CertainTeed Glasbase™ Base Sheet (Type II) or Flintglas Premium Ply Sheet Type VI	11-ga. annular ring shank nails and 1-5/8" diameter tin caps ^D	One or more layers min. 1.5" thick FlintBoard ISO applied in hot asphalt at 25 lbs/square.	None	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(Optional) Applied in hot asphalt ^F	Applied in hot asphalt or heat-fused ^G
45.	Min. 19/32" APA wood structural panel sheathing, Exposure 1, 40/20; or nominal 1" board decking.	CertainTeed Glasbase™ Base Sheet (Type II) or Flintglas Premium Ply Sheet Type VI	11-ga. annular ring shank nails and 1-5/8" diameter tin caps ^D	One or more layers polyisocyanurate insulation applied in hot asphalt at 25 lbs/square.	Min. 1/4" thick DensDeck or DensDeck Prime applied in hot asphalt at 25 lbs/square.	Applied in hot asphalt ^E	(Optional) Applied in hot asphalt ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure (psf) Anchor Sheet Fastener Spacing

- 0 < P ≤ -60 Maximum 7" o.c. in a 4-inch lap and 7" o.c. in three equally spaced, staggered rows in the field of the sheet
- 60 < P ≤ -70 Maximum 7" o.c. in a 4-inch lap and 8" o.c. in four equally spaced, staggered rows in the field of the sheet
- 70 < P ≤ -90 Maximum 6" o.c. in a 4-inch lap and 6" o.c. in four equally spaced, staggered rows in the field of the sheet
- 90 < P ≤ -105 Maximum 6" o.c. in a 4-inch lap and 6" o.c. in five equally spaced, staggered rows in the field of the sheet

TABLE 3 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED ANCHOR SHEET ^{1,2}

Assembly No.	Substrate ^A	Anchor Sheet		Insulation		Roof Cover		
		Type	Attachment	Base Layer	Top Layer	Base Sheet	Ply Sheet	Cap Sheet
46.	Min. 19/32" APA plywood Exposure 1, 40/20; or nominal 1-inch board decking.	CertainTeed All Weather Empire, Flexiglas Base Sheet, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet	11-ga. annular ring shank nails and 1-5/8" diameter tin caps ^D	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO applied in Insta-Stick Quik Set Insulation Adhesive, in beads spaced max. 4" o.c. Note: Adhesive rate shall be increased to full-coverage in all perimeter and corner zones	(Optional) Min. 0.25" DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board applied in Insta-Stick Quik Set Insulation Adhesive, in beads spaced max. 6" o.c. Note: Adhesive rate shall be increased to full-coverage in all perimeter and corner zones Note: Top layer shall be primed with FlintPrime SA	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure (psf) Anchor Sheet Fastener Spacing

- 0 < P ≤ -52.5 Maximum 8" o.c. in a 4" lap and 8" o.c. in three equally spaced, staggered rows in the field of the sheet
- 52.5 < P ≤ -60 Maximum 7" o.c. in a 4" lap and 7" o.c. in three equally spaced, staggered rows in the field of the sheet
- 60 < P ≤ -70 Maximum 7" o.c. in a 4-inch lap and 7" o.c. in four equally spaced, staggered rows in the field of the sheet
- 70 < P ≤ -80 Maximum 6" o.c. in a 4" lap and 6" o.c. in four equally spaced, staggered rows in the field of the sheet
- 80 < P ≤ -92 Maximum 6" o.c. in a 4-inch lap and 6" o.c. in five equally spaced, staggered rows in the field of the sheet

TABLE 4: WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
47.	Concrete	ASTM D41	Min. 2" FlintBoard ISO or FlintBoard _H ISO	Hot Asphalt	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G
48.	Concrete	None	Min. 2" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive in beads spaced 12" o.c.	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board	Dow Insta-Stik Quik Set Insulation Adhesive, in beads spaced 12" o.c.	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure: P ≤ -172.5 psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
49.	Concrete	None	Min. 1.5" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive, TITESET, OlyBond 500 or OlyBond 500 Green Adhesive in beads spaced 12" o.c.	Min. 1/4" DensDeck or DensDeck Prime	Dow Insta-Stik Quik Set Insulation Adhesive, TITESET, OlyBond 500 or OlyBond 500 Green Adhesive, in beads spaced 12" o.c.	Heat-fused ^E	(Optional) Heat-fused ^F	Heat-fused ^G

Design Pressure: P ≤ **-112.5 psf**

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
50.	Concrete	(Optional) ASTM D41	Min. 1.5" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive, TITESET, OlyBond 500 or OlyBond 500 Green Adhesive, in beads spaced 12" o.c. or Dow Spray-N-Grip in full coverage	Min. 1/4" DensDeck or DensDeck Prime primed with FlintPrime SA	Dow Insta-Stik Quik Set Insulation Adhesive, TITESET, OlyBond 500 or OlyBond 500 Green Adhesive, in beads spaced 12" o.c. or Dow Spray-N-Grip in full coverage	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure: P ≤ **-120.0 psf**

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
51.	Concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 1/4", DensDeck, DensDeck Prime or DensDeck DuraGuard	Hot Asphalt	Heat-fused ^E	(Optional) Heat-fused ^F	Heat-fused ^G

Design Pressure: P ≤ **-180.0 psf**

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹									
Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
52.	Concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 1/4" DensDeck primed with FlintPrime SA	Hot Asphalt	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure: $P \leq -192.5$ psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹									
Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
53.	Concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Applied in hot asphalt or heat-fused ^E	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure: $P \leq -180.0$ psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
54.	Concrete	ASTM D41	Min. 2" FlintBoard ISO	Hot Asphalt	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Applied in hot asphalt ^E	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G
55.	Concrete	None	Min. 2" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive, in beads spaced 12" o.c.	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board	Dow Insta-Stik Quik Set Insulation Adhesive, in beads spaced 12" o.c.	Applied in hot asphalt ^E	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure: P ≤ -225.0 psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹									
Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
56.	Concrete	ASTM D41	Min. 2" FlintBoard ISO	Hot Asphalt	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Heat-fused ^E	(Optional) Heat-fused ^F	Heat-fused ^G
57.	Concrete	None	Min. 2" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive, in beads spaced 12" o.c.	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board	Dow Insta-Stik Quik Set Insulation Adhesive, in beads spaced 12" o.c.	Heat-fused ^E	(Optional) Heat-fused ^F	Heat-fused ^G

Design Pressure: P ≤ -232.5 psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹									
Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
58.	Concrete	None	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Millennium One Step Foamable Adhesive, 12" o.c.	Min. 1/4" SECUROCK Gypsum-Fiber Roof Board	Millennium One Step Foamable Adhesive, 12" o.c.	(APP Base only) Heat-fused ^E	None	(APP Cap only) Heat-fused ^G

Design Pressure: P ≤ -252.5 psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹									
Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
59.	Concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 1/4" DensDeck or DensDeck Prime	Hot Asphalt	Heat-fused ^E	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure: P ≤ -240.0 psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹									
Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
60.	Concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 3/4" FescoBoard (homogeneous)	Hot Asphalt	Heat-fused ^E	(Optional) Applied in hot asphalt or heat-fused ^F	Applied in hot asphalt or heat-fused ^G

Design Pressure: P ≤ -412.5 psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
61.	Concrete	ASTM D41	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Hot Asphalt	None	N/A	Black Diamond Base Sheet, self-adhered	None	Heat-fused ^G (Exclude Flintlastic STA) (SBS Cap only) Hot Asphalt or Heat-fused ^G

Design Pressure: P ≤ -375 psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹									
Assembly No.	Substrate ^A	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
62.	Concrete (new)	None	Min. 0.5" of one or more layers of FlintBoard ISO or FlintBoard _H ISO	Adhered with OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable Adhesive or Insta-Stick Quik Set Insulation Adhesive, applied in min. 0.75" wide beads spaced maximum 12" o.c.	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Adhered with OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable Adhesive or Insta-Stick Quik Set Insulation Adhesive, applied 0.75" wide beads spaced maximum 12" o.c.	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet fully adhered with FlintBond Brush at 1gal/sq	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq

Design Pressure: P ≤ -75.0 psf with use of Flintlastic Base 20 base sheet

P ≤ -105.0 psf with use of Flintlastic Poly SMS base sheet or Flintlastic Ultra Poly SMS base sheet

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate ^A	Primer	Vapor Retarder	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
63.	Concrete (new)	None	Flintlastic SA PlyBase	Min. 0.5" of one or more layers of FlintBoard ISO or FlintBoard _H ISO	Adhered with OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable Adhesive or Insta-Stick Quik Set Insulation Adhesive, applied in min. 0.75" wide beads spaced maximum 12" o.c.	Min. 1.5" FlintBoard ISO Cold or FlintBoard _H ISO Cold	Adhered with OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable Adhesive or Insta-Stick Quik Set Insulation Adhesive, applied in min. 0.75" wide beads spaced maximum 12" o.c.	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet fully adhered with FlintBond Brush at 1gal/sq	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq

Design Pressure: P ≤ -75.0 psf with use of Flintlastic Base 20 base sheet
P ≤ -82.5 psf with use of Flintlastic Poly SMS base sheet or Flintlastic Ultra Poly SMS base sheet

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate ^A	Primer	Vapor Retarder	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
64.	Concrete (new)	ASTM D41	Flintlastic SA PlyBase	Min. 0.5" of one or more layers of FlintBoard ISO or FlintBoard _H ISO	Adhered with OlyBond 500 Adhesive or OlyBond 500 Green Adhesive, applied in min. 0.75" wide beads spaced maximum 12" o.c.	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Adhered with OlyBond 500 Adhesive or OlyBond 500 Green Adhesive, applied in min. 0.75" wide beads spaced maximum 12" o.c.	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet fully adhered with FlintBond Brush at 1gal/sq.	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq
					Min. 1.5" FlintBoard ISO Cold or FlintBoard _H ISO Cold					

Design Pressure: P ≤ -75.0 psf with use of Flintlastic Base 20 base sheet

P ≤ -82.5 psf with use of Flintlastic Poly SMS base sheet or Flintlastic Ultra Poly SMS base sheet

TABLE 5: WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate ^A	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
65.	Min. 19/32" APA plywood panel sheathing, Exposure 1, 40/20	FlintPrime SA, applied at a rate of 2 gallon/square.	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure: $P \leq -127.5$ psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate ^A	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
66.	Concrete	FlintPrime SA	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure: ≤ -550.0 psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate ^A	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
67.	Concrete	ASTM D41	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure: ≤ -630.0 psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate ^A	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
68.	Concrete	ASTM D41	Heat-fused ^E	(Optional) Heat-fused ^F	Heat-fused ^G

Design Pressure: P ≤ -240.0 psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate ^A	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
69.	Concrete	ASTM D41	Black Diamond Base Sheet, self-adhered	None	Heat-fused ^G (Exclude Flintlastic STA)
					(SBS Cap only) Hot Asphalt or Heat-fused ^G

Design Pressure: P ≤ -150.0 psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate ^A	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
70.	Concrete	ASTM D41	(APP Base only) Heat-fused ^E	None	(APP Cap only) Heat-fused ^G

Design Pressure: P ≤ -420.0 psf

Footnotes for Tables 1, 2, 3, 4 and 5:**1. Drip Edge Installation Note:**

The roll roofing membrane base sheet, anchor sheet, insulation, ply sheet and cap sheet shall not overhang the edge of the roof.

If the roof does not have a parapet wall surrounding it, then install a galvanized metal flashing with an uplifted outer perimeter edge around the perimeter of the roof.

The membrane must cover the flange that lays on and is fastened to the roof deck, but the uplifted outer perimeter edge must remain exposed.

2. Mechanically Fastened Base, Anchor and Ply Sheet Installation Note, Screw and Formed Plate Descriptions:

Use the screw and plate combinations specified in the assembly. Do not mix screws and plates from different manufacturers.

FlintFast #12 Screw: CertainTeed FlintFast #12 Fastener, #3 Phillips truss head, EPX epoxy coating, FM 4470 corrosion resistance.

FlintFast #14 Screw: CertainTeed FlintFast #14 Fastener, #3 Phillips truss head, EPX epoxy coating, FM 4470 corrosion resistance.

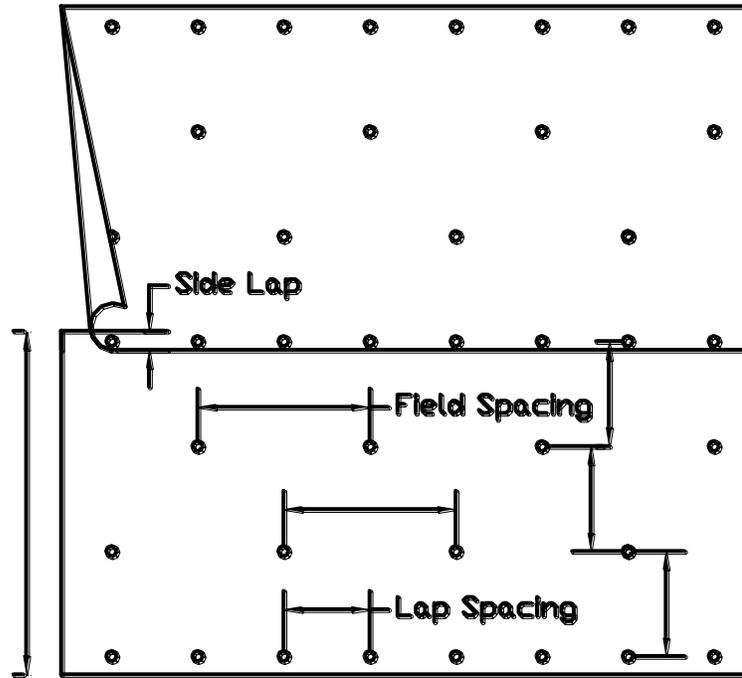
FlintFast 3" Plate: CertainTeed Flintfast 3" Galvalume Metal Insulation Plate, 20 ga. Galvalume steel.

- A. 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 project.
- B. Cap nails shall be of sufficient length to penetrate the underside of the sheathing by not less than 1/2" or the underside of nominal 1" board decking by not less than 1/4". Cap nails shall have a min. 1" diameter by 0.032" thick metal cap and a 0.120" diameter galvanized annular ring shank.
- C. Base sheet and insulation screws shall be of sufficient length to penetrate the underside of the sheathing by not less than 3/4".
- D. Nails & tin cap shall be of sufficient length to penetrate the underside of the sheathing by not less than 1/2" or the underside of nominal 1" board decking by not less than 1/4". Nails shall be minimum 11-gage, annular ring shank nails having not less than 20 rings per inch, heads not less than 3/8" diameter. Cap shall be not less than 1-5/8" diameter of not less than 32-gage sheet metal.
- E. Unless otherwise noted, BASE SHEET consists of:
 - For hot asphalt applied: One ply of CertainTeed Glasbase™ Base Sheet, Flexiglas SBS Base Sheet, Flintlastic Base 20 SBS, Flintlastic Poly SMS SBS Base Sheet, Flintlastic Ultra Poly SMS SBS Base Sheet, All Weather/Empire Base Sheet, Yosemite Venting Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI, ASTM D4601, Type I or II, or ASTM D2178, Type IV or VI applied in hot asphalt at 25 lbs/square.
 - For heat-fused: Flintlastic Base 20 T SBS, Ultra Poly SMS SBS Base Sheet, Flintlastic APP Base-T or Flintlastic STA APP.
 - For self-adhering: Flintlastic SA Mid Ply, Flintlastic SA PlyBase, Black Diamond™ Base Sheet, Flintlastic SA NailBase or Flintlastic Ultra Glass SA.
- F. Unless otherwise noted, PLY SHEET consists of:
 - For hot asphalt applied: One ply of CertainTeed Glasbase™ Base Sheet, Flexiglas SBS Base Sheet, Flintlastic Base 20 SBS, Flintlastic Poly SMS SBS Base Sheet, Flintlastic Ultra Poly SMS SBS Base Sheet, ASTM D4601, Type I or II, one or more plies of Flintglas Ply Sheet Type IV, Flintglas Premium Ply Sheet Type VI, or ASTM D2178, Type IV or VI applied in hot asphalt at 25 lbs/square.
 - For heat-fused: Flintlastic Base 20 T SBS, Ultra Poly SMS SBS Base Sheet, Flintlastic APP Base-T or Flintlastic STA APP.

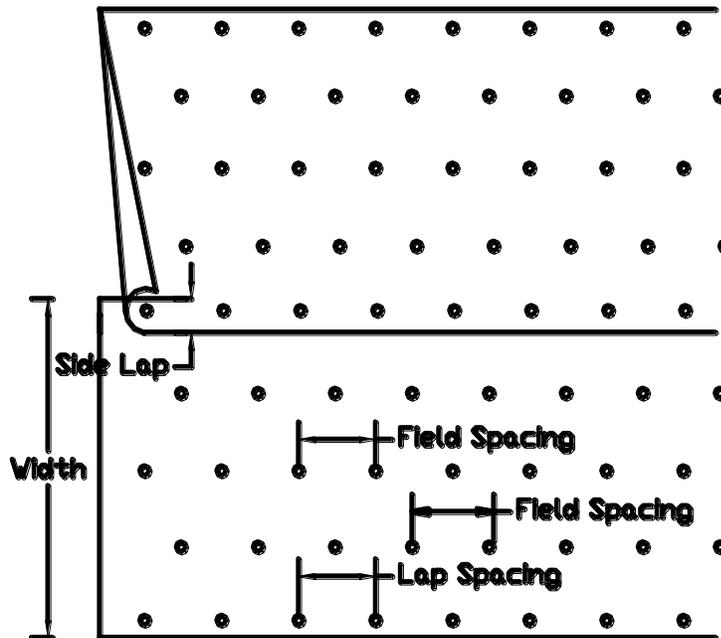
- For self-adhering: Flintlastic SA Midply, Flintlastic SA Plybase, Black Diamond™ Base Sheet or Flintlastic Ultra Glass SA.

G. Unless otherwise noted, CAP SHEET consists of:

- For hot asphalt applied: One ply of Flintglas Cap Sheet, Flintglas Cap Sheet CoolStar, Flintlastic GMS SBS, Flintlastic GMS CoolStar SBS, Flintlastic FR-P SMS, Flintlastic FR-P CoolStar SBS, Flintlastic Premium FR-P SBS, Flintlastic Premium FR-P CoolStar SBS, Flintlastic FR Dual Cap SBS, Flintlastic FR Dual Cap CoolStar SBS, Flintlastic FR Cap 30 SBS or Flintlastic FR Cap 30 CoolStar SBS applied in hot asphalt at 25 lbs/square.
- For heat-fused: One ply of Flintlastic FR Cap 30 T SBS, Flintlastic FR Cap 30 T CoolStar SBS, Flintlastic STA APP, Flintlastic GTS-FR SBS, Flintlastic GTS-FR CoolStar SBS, Flintlastic GTA APP, Flintlastic GTA CoolStar APP, Flintlastic GTA-FR APP or Flintlastic GTA-FR CoolStar APP. Application of a coating over the smooth surfaced Flintlastic STA APP roll roofing product is recommended, but not required.
- For self-adhering: Flintlastic SA Cap, Flintlastic SA Cap FR, Flintlastic SA Cap CoolStar or Flintlastic SA Cap FR CoolStar.



Two Staggered Rows



Three Staggered Rows

Note: Keep the manufacturer’s installation instructions on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.