

Product Evaluation

RC47 | 0322

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:

March 1, 2022

Re-evaluation Date:

March 2026

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

Manufacturer: CertainTeed LLC
20 Moores Road
Malvern, PA 19355
(610) 893-5400

Beacon Roofing Supply, Inc.
505 Huntmar Park Drive
Suite 300
Herndon, VA 20170

SRS Distribution
7440 State Highway 121
McKinney, TX 75070

General Description:

- **Flintlastic STA** APP modified bitumen smooth surfaced roll roofing products are intended for heat-fused (torch) application.
- **Flintlastic STA Plus** APP modified bitumen smooth surfaced roll roofing products are intended for heat-fused (torch) application.
- **Flintlastic GTS** SBS modified bitumen roll roofing membrane intended for heat-fused (torch) application only.
- **Flintlastic GTS CoolStar** SBS modified bitumen white reflective surfaced roll roofing membrane intended for heat-fused (torch) application only.
- **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 Premium GMS** SBS modified bitumen granule surfaced roll roofing products are intended for use as a cap sheet.
- **Flintlastic Premium 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-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 MS Cap Sheet** is a mineral surfaced fiberglass mat roll roofing membrane intended for use as a cap sheet or as a heavy-duty venting type base sheet.
- **Flintglas MS 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 MidPly** 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.

Beacon Roofing Supply, Inc. (See Appendix 2A)

- **TRI-BUILT FG Base Sheet 3SQ** fiberglass reinforced, asphaltic base sheet.
- **TRI-BUILT Granulated Torch APP** modified bitumen roll roofing membrane intended for heat-fused (torch) application only.
- **TRI-BUILT SA Cap** SBS modified polyester and fiberglass scrim reinforced granule surfaced cap sheet designed for self-adhered application.
- **TRI-BUILT SA Nailbase** SBS modified fiberglass reinforced film surfaced base sheet designed for use as a base sheet under self-adhered applications.
- **TRI-BUILT SA Plybase** SBS modified bitumen, fiberglass scrim reinforced film surfaced base or ply sheet designed for self-adhered application.
- **TRI-BUILT SBS Cap** SBS modified bitumen granule surfaced roll roofing products are intended for use as a cap sheet.
- **TRI-BUILT Smooth Torch APP** modified bitumen smooth surfaced roll roofing products are intended for heat-fused (torch) application.
- **TRI-BUILT SAT Base SBS** modified bitumen, fiberglass scrim reinforced film, fine-mineral surfaced base or ply sheet designed for self-adhered application.

SRS Distribution, Inc. (See Appendix 2B)

- **TopShield PRO APP-G** APP modified bitumen roll roofing membrane intended for heat-fused (torch) application only.
- **TopShield PRO SA Cap SBS** modified polyester and fiberglass scrim reinforced granule surfaced cap sheet designed for self-adhered application.
- **TopShield PRO SA Nailbase** SBS modified fiberglass reinforced film surfaced base sheet designed for use as a base sheet under self-adhered applications.
- **TopShield PRO SA PlyBase** SBS modified bitumen, fiberglass scrim reinforced film surfaced base, or ply sheet designed for self-adhered application.
- **TopShield PRO APP-S** APP modified bitumen smooth surfaced roll roofing products are intended for heat-fused (torch) application.

Insulations and Coverboards:

- **FlintBoard ISO** is a closed-cell polyisocyanurate foam core integrally bonded to heavy black (non-asphaltic), fiber-reinforced organic felt facers.
- **FlintBoard_H ISO** is a closed cell polyisocyanurate foam core bonded to glass fiber reinforced facers on both sides.
- **FlintBoard_H ISO Cold** is a closed cell polyisocyanurate foam core bonded to glass fiber reinforced facers on both sides.
- **DensDeck** is a non-structural, glass mat faced gypsum product with a silicone-treated, water-resistant gypsum core and glass surface mats front, back and long edges, the primed board has both sides coated with an acrylic limestone filled binder.
- **DensDeck Prime** is a non-structural, glass mat faced gypsum product with a silicone-treated, water-resistant gypsum core and glass surface mats front, back and long edges, the primed board has both sides coated with an acrylic limestone filled binder.

- **SECUROCK Gypsum Fiber-Roof Board** is a rigid, gypsum-based board stock for use as an overlayment, underlayment or bonding surface.
- **Structodek HD with Primed Red Coating** is a wood fiber insulation board with a top facer treated to reduce asphalt absorption.
- **High Density Wood Fiberboard** is a wood fiber insulation board with a top facer treated to reduce asphalt absorption.
- **GlasRoc Roof Board** is a high performance, paperless, mold and moisture resistance gypsum cover board combining reinforcing glass mats fully embedded into a specially formulated fire and moisture resistive, noncombustible core.
- **FescoBoard** is a high-density perlite-based cover board with expanded mineral fiber and a top facer treated to reduce asphalt absorption.

Adhesive:

- **Millennium One Step Foamable Adhesive** is a highly elastomeric, one-step, all-purpose, foamable adhesive.
- **FlintFast QS Insulation Adhesive** is a highly elastomeric, one-step, all-purpose, foamable adhesive.
- **Millennium PG-1 Pump Grade Adhesive** is a two-component, VOC free, all purpose, low rise, polyurethane adhesive.
- **FlintFast LV Insulation Adhesive** is a two-component, VOC free, all purpose, low rise, polyurethane adhesive.
- **Millennium PG-1 Low Viscosity Insulation Adhesive** is a two-component, essentially VOC free, all purpose, low rise, polyurethane foamable adhesive.
- **Insta-Stik Quik Set Insulation Adhesive** is a single-component polyurethane adhesive.
- **ICP Adhesive CR-20** is a two-component self-leveling elastomeric polyurethane adhesive.
- **OlyBond 500** is a dual-component polyurethane adhesive.
- **OlyBond 500 Green Adhesive** is a two-component, VOC free, polyurethane adhesive.
- **Pliodeck** is a single-component polyurethane based adhesive.

Fasteners and Plates:

- **FlintFast #12** is a carbon steel fastener with #3 Phillips drive, modified truss head for use in steel or wood decks.
- **Trufast #12 DP Fastener** is a carbon steel fastener with #3 Phillips drive, modified truss head for use in steel or wood decks.
- **FlintFast #14** is a carbon steel fastener with #3 Phillips drive, modified truss head for use in steel, wood or concrete decks.
- **Trufast #14 HD Fastener** is a carbon steel fastener with #3 Phillips drive, modified truss head for use in steel, wood or concrete decks.
- **FlintFast 3" Insulation Plate** is a galvalume steel stress plate for use with FlintFast fasteners.
- **Trufast 3" Metal Insulation Plate** is a galvalume steel stress plate for use with FlintFast fasteners.
- **FlintFast 3" Round Plate** is a round galvalume steel stress plate for use with FlintFast fasteners.

- **Simplex MAXX Cap** is a polymer injection-molded, perforated, 3" diameter stress plate fitted with two integral ring-shank nails, available in ceramic coating electro-galvanized and stainless steel.
- **FlintFast #15 EHD** is a carbon steel screw with #3 Phillips drive, modified truss head for use in steel, wood or concrete decks.
- **Trufast #15 EHD** is a carbon steel screw with #3 Philips drive, modified truss head for use in steel, wood or concrete decks.
- **FlintFast 2" Barbed Seam Plate** is a galvalume steel stress plate for use with FlintFast fasteners.
- **FlintFast 2.4" Barbed Seam Plate** is a galvalume steel stress plate for use with FlintFast fasteners.
- **Trufast #21 SHD** is a carbon steel screw with #3 Phillips drive, modified truss head for use in steel decks.
- **Trufast 2" Barbed Metal Seam Plate** is a galvalume steel stress plate for use with Trufast fasteners.
- **Trufast 2.4" Barbed Metal Seam Plate** is a galvalume steel stress plate for use with Trufast fasteners.
- **Trufast 2.4" Scoop Seam Plate** is a galvalume steel stress plate for use with Trufast fasteners.
- **Trufast 2-3/4" Barbed Metal Seam Plate (EHD)** is a galvalume steel stress plate for use with Trufast fasteners.
- **Twin Loc-Nail** is a three-piece factory preassembled fastener/plate unit with tube formed from 0.030" thick G-90 hot dipped galvanized steel. For use in lightweight insulating concrete, cementitious wood fiber and poured gypsum decks.
- **FM-90** is a two-piece factory preassembled base ply fastener/plate unit with dual gripping shanks and integral rib reinforced galvalume stress distribution plate, formed from 0.013" thick G-90 hot dipped galvanized steel. For use in lightweight insulating concrete and poured gypsum decks.
- **Trufast VERSA-FAST Fastener** is a carbon steel screw with #2 Phillips drive, modified truss head for use in lightweight insulating concrete decks and various poured gypsum decks.
- **Trufast VERSA-FAST Plate** is a galvalume steel stress plate for use with Trufast VERSA-FAST Fasteners.

Primers:

- **FlintPrime QD** is a quick-dry asphalt primer compliant with ASTM D41.
- **Karnak #89 Sta-Tack Primer** is a quick-dry water-based primer.

Limitations and Installation:**General installation Requirements:**

All IRC and the IBC requirements must be satisfied, and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

Positive Drainage: Roof decks, in which this product is to be installed upon, must be provided with positive drainage. A minimum roof slope after construction of 1/4" per foot is recommended.

Prime decks were required, in accordance with requirements and recommendations of the primer and deck manufacturer (if applicable). For re-roofing and re-cover applications, prime existing roof surfaces as necessary with an asphalt primer meeting ASTM D-41 specification and allow to dry prior to installing the CertainTeed roofing system.

Installation over an Existing Roof Covering (Roof Recover):

Inspection of Roof Covering Recover Installation: Inspection of the roof covering recover installation must be by a Texas Department of Insurance (TDI) appointed engineer. The TDI appointed engineer must determine if the roof framing can support the combined weight of the existing roof covering and the roof covering recover.

Roof Covering Replacement versus Roof Covering Recover: All existing roof coverings must be completely removed and a new roof covering installed if any of the following conditions occur:

- The existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for the additional roof covering.
- The existing roof has two or more applications of any type of roof covering.

Roof Framing: The maximum allowable spacing of the roof framing must be as specified in the evaluation report.

Roof Deck: The existing roof deck must be as specified in each assembly listed in this evaluation report. The underside of the roof deck must be examined by the TDI appointed engineer for corrosion or deterioration. If corrosion exists, then it must be treated with a rust inhibitor. A fastener withdrawal resistance test must be conducted in the corroded or deteriorated area to determine if the withdrawal resistance of the fastener complies with the minimum fastener requirements for the roof covering recover application. If the tested fastener fails to comply, then the deteriorated roof deck must be replaced.

Fastener Withdrawal Resistance: The fastener withdrawal resistance must be conducted in accordance with ANSI/SPRI FX-1-2006 and this evaluation report.

Fasteners used for the installation of the roof covering recover to the existing roof deck must be as specified in the Installation Instructions section of this evaluation report. For the withdrawal test, the fasteners must be installed in the existing roof deck as required for the roof covering recover installation. A TDI appointed engineer must review the data to verify the integrity of the

existing roof deck and to compare results of the withdrawal tests with the minimum fastener requirements for the roof covering recover application.

The TDI appointed engineer must document all test results, including the locations on the roof surface where the tests are performed. A minimum of ten withdrawal resistance tests are required for a roof area up to 50,000 square feet (a minimum of 50 percent of the tests must be conducted at the perimeter and the corners). Five additional tests are required for each additional 50,000 square feet of roof area or portion thereof (a minimum of 50 percent of the tests must be conducted at the perimeter and the corners). The tests must be located evenly spread across the surface of the roof. At least one withdrawal test must be performed on each roof level if the roof consists of multiple levels.

The withdrawal resistance of each tested fastener must comply with the minimum fastener requirements for the roof covering recover application. If a tested fastener fails to comply, then the TDI appointed engineer must examine that area for deterioration of the roof deck by removing the existing roof covering in that area. If that area of the roof deck has deteriorated, then the deteriorated roof deck must be replaced.

Existing Roof Covering Preparation: The existing roof covering must be prepared to receive the roof covering recover as specified in the CertainTeed installation instructions.

The existing roof covering surface must be dry and free of dirt and debris. If the existing roof covering is gravel surfaced, then the loose gravel must be completely removed. The surface of the existing roof covering must be relatively smooth.

If the existing roof covering has blisters, buckles, ridges, folds, or other deformations, then they must be removed and the surface patched to provide a smooth surface. If the existing roof covering has loose fasteners, then the existing membrane must be cut open, the loose fasteners removed, and the surface patched to provide a smooth surface.

Roof Covering Recover Installation: Installation of the roof covering recover must be specified in the Installation Instructions section of this evaluation report.

Note: Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.

APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE					
Table	Deck	Assembly No.	Application	Description	Page
1	Wood	W-1 through W-21	New, or Reroof (Tear-Off)	Mech. Attached Base Sheet, Bonded Roof Cover	11-20
	Wood	W-22	New, Reroof (Tear-Off) or Recover	Mech. Attached Base Sheet, Bonded Roof Cover	21
	Steel	S-1 and S-2	New, or Reroof (Tear-Off)	Mech. Attached Base Sheet, Bonded Roof Cover	22
	Steel	S-3	New, Reroof (Tear-Off) or Recover	Mech. Attached Base Sheet, Bonded Roof Cover	23
	Steel	SC-1 through SC-5	New or Reroof (Tear-Off)	Mech. Attached Base Sheet, Bonded Roof Cover	24-28
	LWC	LWC-1 through LWC-3	New or Reroof (Tear-Off)	Mech. Attached Base Sheet, Bonded Roof Cover	28-29
	LWC	LWC-4	New, Reroof (Tear-Off) or Recover	Mech. Attached Base Sheet, Bonded Roof Cover	30
	CWF	CWF-1	New, Reroof (Tear-Off) or Recover	Mech. Attached Base Sheet, Bonded Roof Cover	31
2	Gypsum	G-1	New, Reroof (Tear-Off) or Recover	Mech. Attached Base Sheet, Bonded Roof Cover	32
	Wood	W-21 through W-28	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	33-37
	Wood	W-29A and W-29B	New, Reroof (Tear-Off) or Recover	Mech. Attached Insulation, Bonded Roof Cover	38
	Steel	SC-6 through SC-8	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	39-41
	Steel	SC-9 through SC-11	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	42-43
	Steel	SC-12	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	44
	Steel	SC-13A through SC-14B	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	45-46
3	Steel	S-4 and S-16	New, Reroof (Tear-Off) or Recover	Mech. Attached Insulation, Bonded Roof Cover	47-53
	Wood	W-30 through W-32	New or Reroof (Tear-Off)	Mech. Attached Anchor Sheet, Bonded Roof Cover	54-55
4	LWC	LWC-5 and LWC-8	New, Reroof (Tear-Off) or Recover	Mech. Attached Anchor Sheet, Bonded Roof Cover	56-59
	Wood	W-33 & W-34	New or Reroof (Tear-Off)	Bonded Insulation, Bonded Roof Cover	60-61
	Concrete	C-1 through C-23	New or Reroof (Tear-Off)	Bonded Insulation, Bonded Roof Cover	62-76
	LWC	LWC-9 through LWC-20	New or Reroof (Tear-Off)	Bonded Insulation, Bonded Roof Cover	76-82
	Gypsum	G-2	New or Reroof (Tear-Off)	Bonded Insulation, Bonded Roof Cover	83
5	Wood	W-35 & W-36	New or Reroof (Tear-Off)	Non-Insulated, Bonded Roof Cover	84
	LWC	LWC-21	New or Reroof (Tear-Off)	Non-Insulated, Bonded Roof Cover	85
	Concrete	C-24 through C-30	New or Reroof (Tear-Off)	Non-Insulated, Bonded Roof Cover	85-88

APPENDIX 2A: BEACON ROOFING PRODUCTS MAY BE USED AS ALTERNATES TO SELECT CERTAINTEED PRODUCTS, LISTED BELOW.	
CERTAINTEED LLC	BEACON ROOFING SUPPLY, INC
Flintlastic STA	TRI-BUILT Smooth Torch
Flintlastic GTA	TRI-BUILT Granulated Torch
Flintlastic SA Cap	TRI-BUILT SA Cap
Flintlastic SA NailBase	TRI-BUILT SA Nailbase
Flintlastic SA PlyBase	TRI-BUILT SA Plybase
Flintlastic GMS	TRI-BUILT SBS Cap
GlasBase Base Sheet	TRI-BUILT FG Base Sheet 3SQ
Black Diamond Base Sheet	TRI-BUILT SAT Base

APPENDIX 2B: SRS DISTRIBUTION PRODUCTS MAY BE USED AS ALTERNATES TO SELECT CERTAINTEED PRODUCTS, LISTED BELOW.	
CERTAINTEED LLC	SRS DISTRIBUTION, INC
Flintlastic STA	TopShield PRO APP-S
Flintlastic GTA	TopShield PRO APP-G
Flintlastic SA Cap	TopShield PRO SA Cap
Flintlastic SA NailBase	TopShield PRO SA Nailbase
Flintlastic SA PlyBase	TopShield PRO SA PlyBase

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. (W-1)	Min. 15/32" plywood	None	N/A	None	N/A	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) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

0 < P ≤ -48 Maximum 7.5" o.c. in a 4" lap and 12" o.c. in two 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. (W-2)	Min. 15/32" plywood	None	N/A	None	N/A	Glasbase™ Base Sheet (Type II)	3" diameter by 0.021" 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 7.5" o.c. in a 4" lap and 12" o.c. in two 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. (W-3)	Min. 15/32" plywood	FlintBoard ISO or FlintBoard _H ISO	Loose laid with staggered joints	Any polyisocyanurate perlite, or wood fiber, any thickness	Loose laid	Glasbase™ Base Sheet (Type II)	3" diameter by 0.021" thick formed steel discs and No. 12-13, No. 3 Phillips drive, truss head corrosion resistant screws ^C	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

0 < P ≤ -42 Maximum 7.5" o.c. in a 4" lap and 12" o.c. in two 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. (W-4)	Min. 19/32" plywood	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	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

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. (W-5)	Min. 19/32" plywood	None	N/A	None	N/A	Glasbase™ Base Sheet (Type II)	11-ga. annular ring shank nails and 1-5/8" diameter tin caps ^D	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G
6. (W-6)	Min. 19/32" plywood	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

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		
7. (W-7)	Min. 19/32" plywood	(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" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C NOTE: Stress plates must be primed with Karnak #89 Sta-Tack Primer	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

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. (W-8)	Min. 15/32" plywood	None	N/A	None	N/A	GlasBase™ Base Sheet or FlintlasticPoly SMS Base Sheet	1-inch Simplex Metal Cap nails ^B	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G
9. (W-9)	Min. 15/32" plywood	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
10. (W-10)	Min. 15/32" plywood	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" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	(Optional) Hot asphalt or heat- fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Hot asphalt or heat- fused ^G
11. (W-11)	Min. 15/32" plywood	None	N/A	None	N/A	Flintlastic SA NailBase	FlintFast #12 or #14 Fastener with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation 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
12. (W-12)	Min. 15/32" plywood	None	N/A	None	N/A	Glasbase™ Base Sheet; Flexiglas Base Sheet; Flintlastic Base 20; Flintlastic Poly SMSBase Sheet; Flintlastic Ultra Poly SMS Base Sheet; Yosemite Venting Base Sheet	FlintFast #12 or #14 Fastener with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	(Optional) Hot asphalt or heat- fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G
13. (W-13)	Min. 15/32" plywood	None	N/A	None	N/A	Flintlastic SA NailBase	FlintFast #12 or #14 Fastener with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	Self-Adhered ^F	Self-Adhered ^G

Design Pressure (psf) **Base Sheet Fastener Spacing**

0 < P ≤ -127.5 Maximum 6" 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
14. (W-14)	Min. 15/32" plywood	None	N/A	None	N/A	Glasbase™ Base Sheet, Yosemite Venting Base, Flexiglas Base Sheet, All Weather/Empire Base Sheet, FlintlasticBase 20, Flintlastic Poly SMS Base	Mechanically fastened with SimplexMAXX Cap fasteners	(Optional) Hot asphalt or heat-fused ^F	Hot asphalt or heat-fused ^G
15. (W-15)	Min. 15/32" plywood	None	N/A	None	N/A	Flintlastic APP Base T	Mechanically fastened with SimplexMAXX Cap fasteners	(Optional) Hot asphalt or heat-fused ^F	(APP Cap only) Heat-fused ^G

Design Pressure (psf)

- 0 < P ≤ -45
- 45 < P ≤ -52.5
- 80 < P ≤ -90
- 90 < P ≤ -105

Base Sheet Fastener Spacing

- Maximum 9" o.c. in a 2" lap and 18" o.c. in two equally spaced, staggered center rows
- Maximum 9" o.c. in a 2" lap and 12" o.c. in two equally spaced, staggered center rows
- Maximum 6" o.c. in a 2" lap and 6" o.c. in two equally spaced, staggered center rows
- Maximum 6" o.c. in a 2" 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)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
16. (W-16)	Min. 15/32" plywood	None	N/A	Glasbase™ Base Sheet, Yosemite Venting Base Sheet, All Weather/Empire Base, Flexiglas Base, Flintlastic Base 20, FlintlasticPolySMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet	Cap nails ^B : 1" diameter, 0.032" thick metal cap with 0.120" shank diameter, annular ring shank nails	(Optional) Hot asphalt or heat- fused ^F or Black Diamond Base Shee or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

0 < P ≤ -67.5 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)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
17. (W-17)	Min. 15/32" plywood	(Optional) One or more layers, any thickness or combination	Loose laid	Glasbase™ Base Sheet, Yosemite Venting Base Sheet, All Weather/Empire Base, Flexiglas Base, Flintlastic Base 20, Flintlastic PolySMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet	FlintFast #14 Fasteners, Trufast #14 HD Fasteners with FlintFast 3" Galvalume Metal Insulation Plates ^C	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

0 < P ≤ -97.5 Maximum 8" o.c. in a 4" lap and 8" o.c. in three equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}							
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
18. (W-18)	Min. 15/32" plywood	None	N/A	Flintlastic SA NailBase	Mechanically fastened with Simplex MAXX Cap fasteners (FlintPrime QD applied to MAXX Cap fasteners)	(Optional) Flintlastic SA PlyBase or Flintlastic SA MidPly,self-adhered	Flintlastic SA Cap FR, Flintlastic SA Cap FR CoolStar, Flintlastic SA Cap or Flintlastic SA Cap CoolStar, self-adhered

Design Pressure (psf)

0 < P ≤ -45.0
-45.0 < P ≤ -67.5

Base Sheet Fastener Spacing

Maximum 9" o.c. in a 3" lap and 12" o.c. in two equally spaced, staggered rows in the field of the sheet
Maximum 8" o.c. in a 3" lap and 8" 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)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
19. (W-19)	Min. 15/32" plywood	None	N/A	Flintlastic SA NailBase	Mechanically fastened with Cap nails ^B with a min. 1" diameter by 0.032" thick cap and a 0.120" diameter galvanized annular ring shank	(Optional) Flintlastic SA PlyBase or Flintlastic SA MidPly,self-adhered	Flintlastic SA Cap, Flintlastic SA Cap CoolStar, Flintlastic SA Cap FR or Flintlastic SA Cap FR CoolStar, self-adhered

Design Pressure (psf)

0 < P ≤ -75.0

Base Sheet Fastener Spacing

Maximum 7" o.c. in a 4" lap and 7" 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)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
20. (W-20)	Min. 7/16" OSB	None	N/A	Flintlastic SA NailBase	Mechanically fastened with Simplex MAXX Cap fasteners NOTE: MAXX Cap fasteners primed with FlintPrime QD	(Optional) Flintlastic SA MidPly, self-adhered	Self-adhered ^G

Design Pressure (psf)

$$0 < P \leq -52.5$$

Base Sheet Fastener Spacing

Maximum 8" o.c. in a 3" lap and 8" o.c. in three equally spaced center 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)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
21. (W-21)	Min. 7/16" OSB	None	N/A	Flintlastic SA NailBase	Mechanically fastened with Trufast VERSA-FAST Fasteners & Plates with two screws per plate NOTE: Trufast VERSA-FAST Plates primed with FlintPrime QD	(Optional) Flintlastic SA MidPly, self-adhered	Self-adhered ^G

Design Pressure (psf)

$$0 < P \leq -60.0$$

Base Sheet Fastener Spacing

Maximum 9" o.c. in a 3" lap and 12" o.c. in two equally spaced center 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)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
22. (W-22)	Min. 15/32" plywood (new, recover)	(Optional) One or more layers, any thickness or combination	Loose laid	Glasbase™ Base Sheet, Flexiglas BaseSheet, Flintlastic Base 20, All Weather / Empire Base, Yosemite Venting Base, Flintlastic Poly SMS Base or Flintlastic Ultra Poly SMS Base	FlintFast #12 or #14 Fastener with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	(Optional) Flintlastic Base 20, Flintlastic Poly SMS Base or Flintlastic Ultra Poly SMS Base applied in FlintBond Brush at 1-1.5 gal./sq.	Flintlastic FR Cap30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR- P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar or Flintlastic Premium GMS applied in FlintBond Brush at 1-1.5 gal./sq.

Design Pressure (psf)

0 < P ≤ -52.5

Base Sheet Fastener Spacing

Maximum 8" o.c. in a 4" lap and 8" 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)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
23. (S-1)	Min. 22 ga., Type B steel deck	Min. 2" FlintBoard ISO	Loose- laid	Flintlastic Ultra Poly SMS Base Sheet	FlintFast #15 EHD with FlintFast 2" Barbed Seam Plates or FlintFast 2.4" Barbed Seam Plates or Trufast #15 EHD or Trufast #21 SHD fasteners with Trufast 2" Barbed Metal Seam Plates, Trufast 2.4" Barbed Metal Seam Plate, Trufast 2.4" Scoop Seam Plates or 2-3/4" Barbed Metal Seam Plates (EHD) ^C	(Optional) Heat- fused ^F	Heat- fused ^G

Design Pressure (psf)

0 < P ≤ -52.5

Base Sheet Fastener Spacing

Maximum 12" o.c. within the min 4" wide, heat-welded side lap

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

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
24. (S-2)	Min. 22 ga., Type B steel deck	Min. 2" FlintBoard ISO	Loose- laid	Flintlastic Ultra Poly SMS Base Sheet	FlintFast #15 EHD or Trufast #15 EHD or Trufast #21 SHD fasteners with Trufast 2.4" Scoop Seam Plates or 2-3/4" Barbed Metal Seam Plates (EHD) ^C	(Optional) Heat- fused ^F	Heat- fused ^G

Design Pressure (psf)

0 < P ≤ -67.5
-67.5 < P ≤ -112.5
-112.5 < P ≤ -165.0

Base Sheet Fastener Spacing

Maximum 12" o.c. within the min 4" wide, heat-welded side lap
Maximum 6" o.c. within the min 4" wide, heat-welded side lap
Maximum 6" o.c. within the min 4" wide, heat-welded side laps and 6" o.c. in one (1) center row, stripped-in with
6" sidestrips of torch-applied Poly SMS Base or UltraPoly SMS Base

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}							
Assembly No.	Substrate ^A	Base Insulation Layer(s)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
25. (S-3)	Min. 22 ga., Type B steel deck	(Optional) One or more layers, any thickness or combination	Loose-laid	Glasbase™ Base Sheet, Flexiglas BaseSheet, Flintlastic Base 20, All Weather / Empire Base, Yosemite Venting Base, Flintlastic Poly SMS Base or Flintlastic Ultra Poly SMS Base	FlintFast #14 Fastener with FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast3" Metal Insulation Plates ^C	(Optional) Flintlastic Base 20, Flintlastic PolySMS Base or FlintlasticUltra Poly SMS Base applied in FlintBond Brush at 1-1.5 gal./sq.	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar or Flintlastic Premium GMS applied in FlintBond Brush at 1-1.5 gal./sq.

Design Pressure (psf)

0 < P ≤ -75.0

Base Sheet Fastener Spacing

Maximum 6" o.c. in a 4" lap and 12" 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	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
26. (SC-1)	Min. 22-ga., Type B, Grade 33 steel	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. 0.25" 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 or Trufast 3" Metal Insulation Plates with Trufast #14 HD Fasteners ^C within the 4", heat- fused side lap. (Fasteners must engage top flange of steel deck.)	(Optional) Hot asphalt or heat- fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	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

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
27. (SC-2)	Min. 22-ga., Type B, Grade 33 steel	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. 0.25" 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" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C (Fasteners must engage top flange of steel deck.)	(Optional) Hot asphalt or heat- fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	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

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
28. (SC-3)	Min. 22-ga., Type B, Grade 33 steel	Min. 1.5", FlintBoard ISO or FlintBoardH ISO	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	(Optional) Min. 0.25" 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 Base20; Flintlastic Poly SMS BaseSheet; Flintlastic Ultra Poly SMS Base Sheet; Yosemite Venting Base Sheet	FlintFast #12 or #14 Fastener with FlintFast3" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C (Fasteners must engage top flange of steel deck.)	Hot asphalt or heat- fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	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

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
29. (SC-4)	Min. 22-ga., Type B, Grade 80 steel	Min. 1.5", FlintBoard ISO or FlintBoardH ISO	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	(Optional) Min. 0.25" 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 FlintFast3" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C (Fasteners must engage top flange of steel deck.)	(Optional) Heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused ^G

Design Pressure (psf)

0 < P ≤ -112.5

Base Sheet Fastener Spacing

Maximum 12" o.c. in a 4" lap and 12" o.c. in two 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	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
30. (SC-5)	Min. 22-ga., Type B, Grade 80 steel	Min. 1.5", FlintBoard ISO or FlintBoardH ISO	Preliminary Attached – Minimum of two fasteners per 4 x 4' board or four fasteners per 4 x 8' board	(Optional) Min. 0.25" 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" Insulation Plates or Trufast #12 DP Fasteners or Trufast#14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C (Fasteners must engage top flange of steel deck.)	(Optional) Hot asphalt or heat- fused ^F (excluding Base 20 T) or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	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

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

Assembly No.	Substrate ^A	LWC	Roof Cover			
			Base Sheet	Fasteners	Ply Sheet	Cap Sheet
31. (LWC-1)	Min. 22 ga., Type B steel deck	Min. 300 psi, min. 2" Approved cellular lightweightinsulating concrete	Flintlastic Poly SMSBase Sheet or Flintlastic Ultra PolySMS Base Sheet	Twin Loc-Nails	(Optional) Hot Asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot Asphalt or heat-fused ^G

Design Pressure (psf) Base Sheet Fastener Spacing

0 < P ≤ -75.0 Maximum 9" o.c. in a 4" lap and 9" o.c. in two equally spaced, staggered center rows

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}						
Assembly No.	Substrate ^A	LWC	Roof Cover			
			Base Sheet	Fasteners	Ply Sheet	Cap Sheet
32. (LWC-2)	Min. 22 ga., Type B steel deck	Strong Seal Roof Fill (65 pcf wet density for a target 300-350 psi compressive strength) preblended cementitious lightweight concrete applied to steel deck flutes to a thickness of 1/4" above top flute min. 2" thick Apache Holey Board, pressed into the slurry coat. The EPS insulation is then covered with a 3" thick application of the Strong Seal Roof Fill.	Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Yosemite Venting Base Sheet	FM-90	(Optional) Hot asphalt or heat-fused ^F Black Diamond BaseSheet or Flintlastic Ultra Glass SA, self-adhered	Flintlastic STA, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar, heat-fused or (Optional) Flintglas MS Cap Sheet or Flintglas MS Cap Sheet CoolStar, hot asphalt
Design Pressure (psf)		Base Sheet Fastener Spacing				
0 < P ≤ -67.5		Maximum 7" o.c. in a 4" lap and 10" o.c. in two equally spaced, staggered center rows				

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET ^{1,2}						
Assembly No.	Substrate ^A	LWC	Roof Cover			
			Base Sheet	Fasteners	Ply Sheet	Cap Sheet
33. (LWC-3)	Min. 22 ga., Type B steel deck	Strong Seal Roof Fill (65 pcf wet density for a target 300-350 psi compressive strength) preblended cementitious lightweight concrete applied to steel deck flutes to a thickness of 1/4" above top flute min. 2" thick Apache Holey Board, pressed into the slurry coat. The EPS insulation is then covered with a 3" thick application of the Strong Seal Roof Fill.	Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Yosemite Venting Base Sheet	FM-90	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR- P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, hot asphalt or Flintlastic GTS or Flintlastic GTS CoolStar, heat- fused
Design Pressure (psf)		Base Sheet Fastener Spacing				
0 < P ≤ -67.5		Maximum 7" o.c. in a 4" lap and 10" o.c. in two equally spaced, staggered center rows				

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

Assembly No.	Substrate ^A	LWC	Roof Cover			
			Base Sheet	Fasteners	Ply Sheet	Cap Sheet
34. (LWC-4)	Min. 22 ga., Type BV steel deck	2" thick, Min. 470 psi pre-existent Cellular lightweight concrete (> 28 days old)	Flintlastic Ultra Poly SMS	Mechanically fastened with Trufast VERSA-FAST Fasteners & Plates with two screws per plate	(Optional) Flintlastic Ultra Poly SMS Base or Base 20 T, heat-fused	Flintlastic FR Cap 30 T, FR Cap 30 T CoolStar or GTS-FR, heat-fused
					(Optional) Flintlastic APP Base T or STA, heat-fused	Flintlastic GTA, GTA CoolStar, STA, GTA-FR or GTA-FR CoolStar, heat-fused
Design Pressure (psf)		Base Sheet Fastener Spacing				
0 < P ≤ -75.0		At 180 degrees from each other, 9" o.c. within the 5" wide, heat-welded side laps				

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

Assembly No.	Substrate ^A	Deck Attachment	Roof Cover			
			Base Sheet	Fasteners	Ply Sheet	Cap Sheet
35. (CWF-1)	2" thick Tectum Plank	Trufast #12 Purlin Fasteners with Trufast 2" Metal Seam Plates, 3 per bearing	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Flintlastic Base 20 or Yosemite Venting Base Sheet	Mechanically fastened with Trufast Twin Loc-Nail Assembled Fasteners (1.8" long)	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base or Flintlastic Base 20, hot asphalt	Flintglas MS Cap Sheet or Flintglas MS Cap Sheet CoolStar, hot asphalt
Design Pressure (psf)		Base Sheet Fastener Spacing				
0 < P ≤ -60.0		Maximum 6" o.c. in a 4" lap and 10" o.c. in two equally spaced, staggered center rows				

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

Assembly No.	Substrate ^A	Roof Cover			
		Base Sheet	Fasteners	Ply Sheet	Cap Sheet
36. (G-1)	Poured Gypsum	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Flintlastic Base 20 or Yosemite Venting Base Sheet	Mechanically fastened with Trufast Twin Loc-Nail Assembled Fasteners (1.8" long)	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base or Flintlastic Base 20, hot asphalt	Flintglas MS Cap Sheet or Flintglas MS Cap Sheet CoolStar, hot asphalt
Design Pressure (psf)		Base Sheet Fastener Spacing			
0 < P ≤ -60.0		Maximum 6" o.c. in a 4" lap and 10" o.c. in two 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
37. (W-21)	Min. 19/32" plywood	(Optional) One or more layers FlintBoard ISO or FlintBoard _H ISO	Loose laid	Min. 0.25" thick DensDeck primed with FlintPrime QD at 0.5 to 1.0 gal/square.	FlintFast #14 Fasteners with FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

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

$0 < P \leq -45$

24 per 4 x 8 ft board

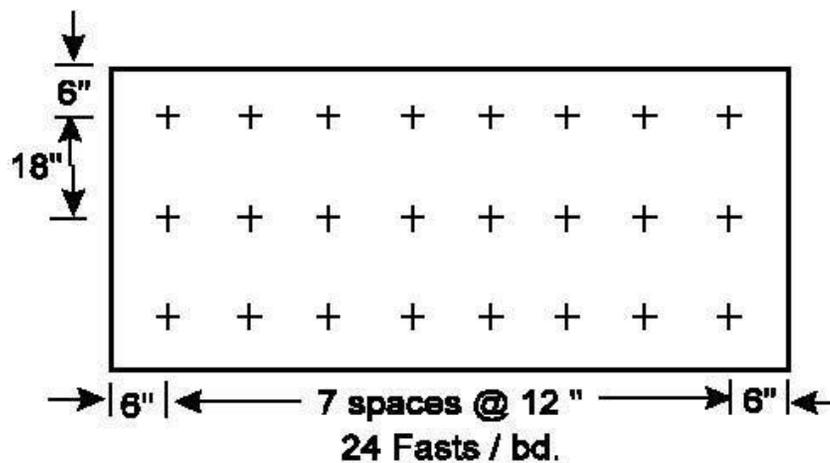


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
38. (W-22)	Min. 19/32" plywood	(Optional) One or more layers, any combination	Loose laid	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 Fastener with FlintFast3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C NOTE: Insulation shall be primed with FlintPrime QD at 0.5 to 1.0 gal/sq.	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

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

$0 < P \leq -45$

16 per 4 x 8' board

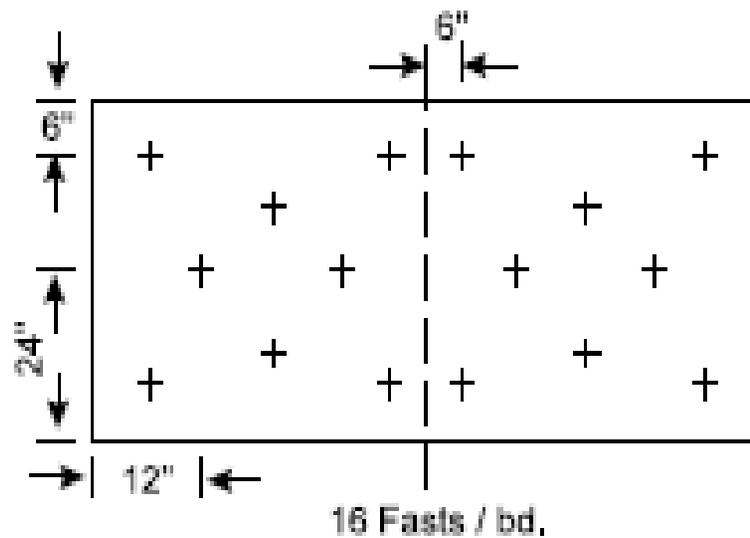


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate ^A	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
39. (W-23)	Min. 15/32" plywood	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Loose laid	Min. 0.25" SECUROCK Gypsum Fiber Roof Board	FlintFast #12 fasteners and FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.33 ft ² .	(APP Base only) Heat-fused ^E	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused ^G

Design Pressure: $P \leq -67.5$ 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
40. (W-24)	Min. 15/32" plywood	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Loose laid	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.33 ft ²	Self-adhered ^E	(APP Ply only) Heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused ^G
41. (W-25)							(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(SBS Cap only) Heat-fused ^G

Design Pressure: $P \leq -75$ 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. (W-26)	Min. 15/32" plywood	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.33 ft ²	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Insta-StikQuik Set Insulation Adhesive, ICP Adhesive CR-20, 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 or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused ^G
43. (W-27)	Min. 15/32" plywood	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.33 ft ²	Min 1/2" High Density Wood Fiberboard	Hot Asphalt	Hot asphalt ^E	(Optional) Hot asphalt or heat- fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	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
44. (W-28)	Min. 15/32" plywood	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.33 ft ²	Min. 0.25" SECUROCK Gypsum FiberRoof Board	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive, FlintFast LV Insulation Adhesive, Insta- Stik Quik Set Insulation Adhesive, OlyBond 500, OlyBond 500 Green Adhesive, 12" o.c.	(APP Base only) Heat-fused ^E	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused ^G

Design Pressure: $P \leq -90$ psf

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

Assembly No.	Substrate	Base Insulation Layer(s)	Top Insulation Layer		Roof Cover			
			Type	Attachment	Base Sheet	Primer	Ply Sheet	Cap Sheet
45A. (W-29A)	Min. 15/32" plywood (new, recover)	(Optional) One or more layers, any thickness, loose-laid	Min. 1.5" FlintBoard ISO	FlintFast #14 with FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	Flintlastic SA PlyBase or Flintlastic SA MidPly, self-adhered	FlintPrime QD at 0.5 to 1.0 gal/sq.	(Optional) Flintlastic SA PlyBase or Flintlastic SA MidPly, self-adhered	Flintlastic SA Cap, Flintlastic SA Cap CoolStar, Flintlastic SA Cap FR or Flintlastic SA Cap FR CoolStar, self-adhered
45B. (W-29B)	Min. 15/32" plywood (new, recover)	(Optional) One or more layers, any thickness, loose-laid	Min. 1.5" FlintBoard ISO	FlintFast #14 with FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	None	(Optional) Flintlastic Ultra Poly SMS Base, Base 20 T, APP Base T, STA or STA Plus, heat-fused	Flintlastic FR Cap 30 T, FR Cap 30 T CoolStar, STA, STA Plus, GTA, GTA CoolStar, GTA-FR or GTA-FR CoolStar, heat-fused

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

$0 < P \leq -52.5$

20 per 4 x 8 ft board

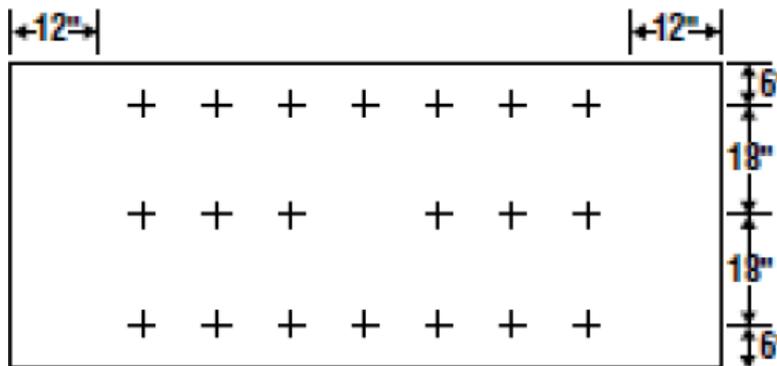


TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
46. (SC-6)	Min. 22-ga., TypeB, Grade 33 steel	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Loose laid	Min. 0.25" DensDeck Prime	FlintFast #12 or FlintFast #14 Fastener with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

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

$0 < P \leq -52.5$

24 per 4 x 8' board

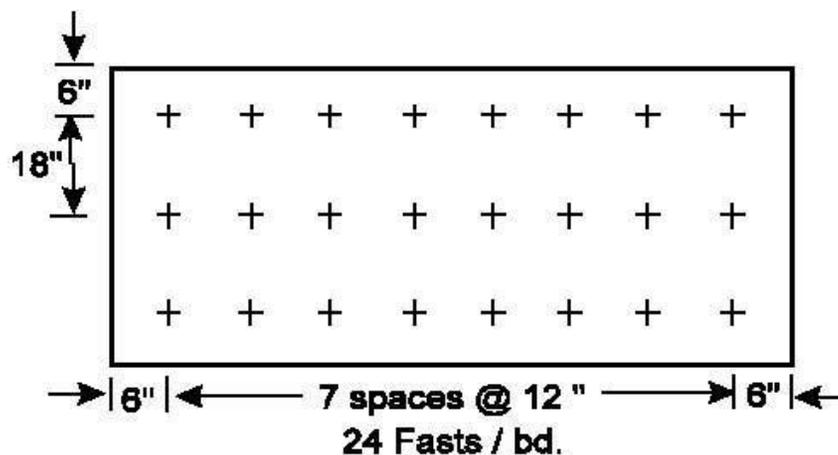


TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
47. (SC-7)	Min. 22 -ga., Type B, Grade 33 steel	(Optional) Min. 1.5", 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" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G

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

$0 < P \leq -52.5$

24 per 4 x 8' board

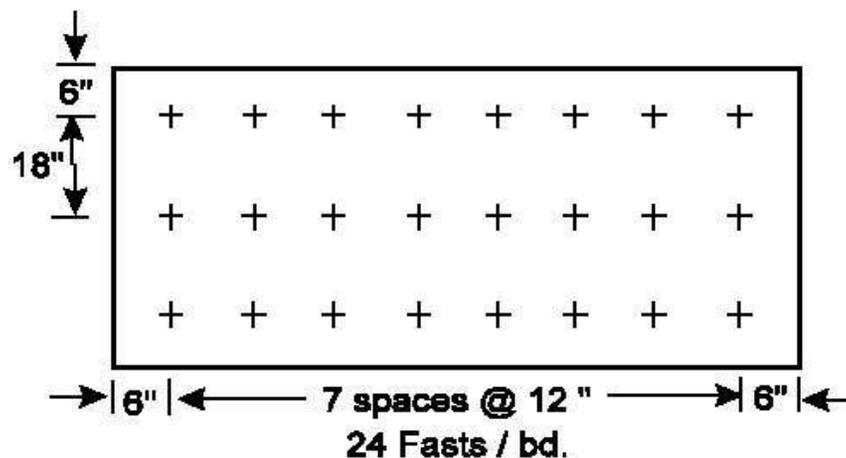


TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
48. (SC-8)	Min. 22-ga., Type B, Grade 33 steel	(Optional) Min. 1.5", 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" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	Black Diamond Base Sheet or Flintlastic Ultra Glass SA	(Optional) Heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused ^G

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

$0 < P \leq -82.5$

24 per 4 x 8' board

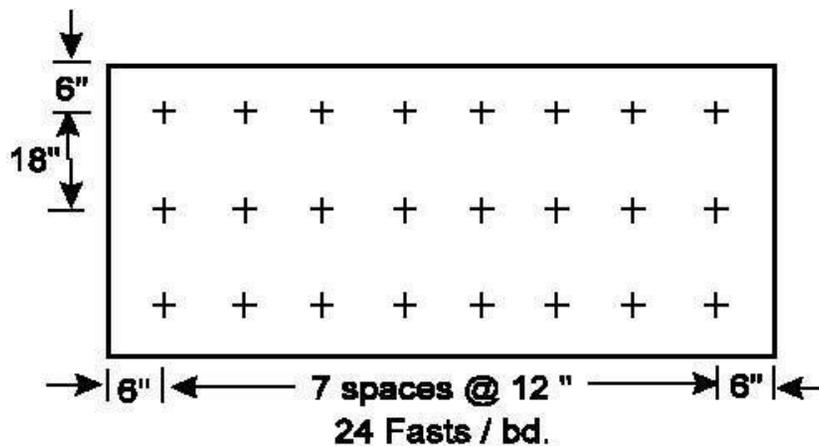


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate	Thermal Barrier	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
49. (SC-9)	Min. 22-ga., Type B, Grade 33 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 fasteners (steel deck only) or FlintFast #14 with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners (steel deck only) or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 2 ft 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 Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1 gal/sq
Min. 0.5" SEUROCK Gypsum-Fiber Roof Board									
50. (SC-10)			Min. 2.0" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 fasteners (steel deck only) or FlintFast #14 with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners (steel deck only) or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 2 ft ²	Min. 1.5" FlintBoard ISO Cold or FlintBoard _H ISO Cold	Adhered with OlyBond 500, OlyBond 500 Green Adhesive, Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation 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	Primer	Thermal Barrier	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
51. (SC-11)	Min. 22-ga., Type B steel	None	(Optional) Min. 0.25" DensDeck, SECUROCK Gypsum- Fiber Roof Board or GlasRoc Roof Board Loose- laid	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 fasteners (Steel deck only) or FlintFast #14 with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners (Steel deck only) or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.45 ft ²	None	N/A	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, Self- Adhered	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Hot asphalt or heat- fused ^G

Design Pressure: $P \leq -75$ psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
52. (SC-12)	Min. 22-ga., Type B, Grade 33 steel	Min. 2.0" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 fasteners or #14 Fastener with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	Min. 0.25" 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.	Hot asphalt or heat- fused ^E	(Optional) Hot asphalt or heat- fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Hot asphalt or heat- fused ^G

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

$0 < P \leq -60$

20 per 4 x 8 ft board

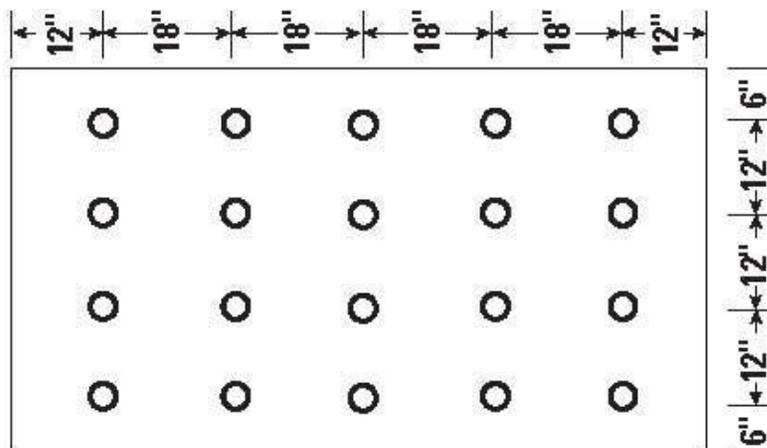


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}								
Assembly No.	Substrate	Base Insulation Layer(s)	Top Insulation Layer		Roof Cover			
			Type	Attachment	Base Sheet	Primer	Ply Sheet	Cap Sheet
53A. (SC-13A)	Min. 22-ga., Type B, Grade 40 steel	(Optional) One or more layers, any thickness, loose-laid	Min. 1.5" FlintBoard ISO	FlintFast #14 with FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^c	Flintlastic SA PlyBase or Flintlastic SA MidPly, self-adhered	FlintPrime QD at 0.5 to 1.0 gal/sq.	(Optional) Flintlastic SA PlyBase or Flintlastic SA MidPly, self-adhered	Flintlastic SA Cap, Flintlastic SA Cap CoolStar, Flintlastic SA Cap FR or Flintlastic SA Cap FR CoolStar, self-adhered
53B. (SC-13B)	Min. 22-ga., Type B, Grade 40 steel	(Optional) One or more layers, any thickness, loose-laid	Min. 1.5" FlintBoard ISO	FlintFast #14 with FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	None	(Optional) Flintlastic Ultra Poly SMS Base, Base 20 T, APP Base T, STA or STA Plus heat-fused	Flintlastic FR Cap 30 T, FR Cap 30 T CoolStar, STA, STA Plus, GTA, GTA CoolStar, GTA-FR or GTA-FR CoolStar, heat-fused

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

$0 < P \leq -67.5$

18 per 4 x 8 ft board

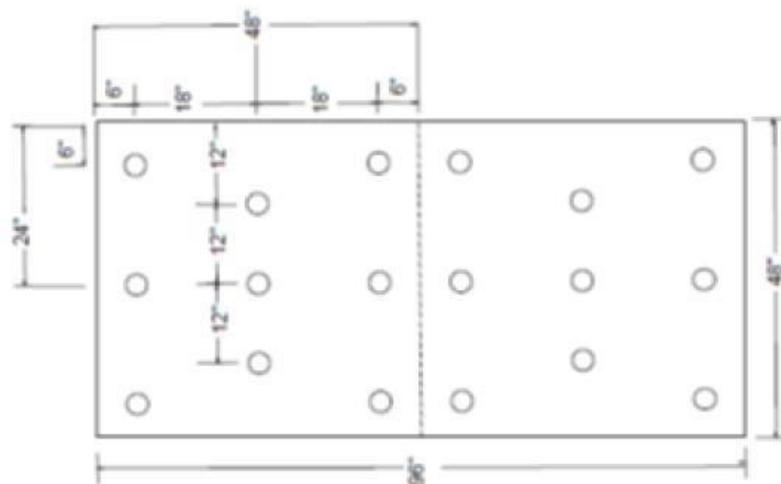


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate	Base Insulation Layer(s)	Top Insulation Layer		Roof Cover			
			Type	Attachment	Base Sheet	Primer	Ply Sheet	Cap Sheet
54A. (SC-14A)	Min. 22-ga., Type B, Grade 40 steel	(Optional) One or more layers, any thickness, loose laid	Min. 0.5" SECUROCK Gypsum-Fiber Roof Board	FlintFast #14 with FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C	Flintlastic SA PlyBase or Flintlastic SA Mid Ply, self-adhered	FlintPrime QD at 0.5 to 1.0 gal/sq.	(Optional) Flintlastic SA PlyBase or Flintlastic SA MidPly, self-adhered	Flintlastic SA Cap, Flintlastic SA Cap CoolStar, Flintlastic SA Cap FR or Flintlastic SA Cap FR CoolStar, self-adhered
54B. (SC-14B)	Min. 22-ga., Type B, Grade 40 steel	(Optional) One or more layers, any thickness, loose-laid	Min. 0.5" SECUROCK Gypsum-Fiber Roof Board	FlintFast #14 with FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	None	(Optional) Flintlastic Ultra Poly SMS Base, Base 20 T, APP Base T, STA or STA Plus, heat-fused	Flintlastic FR Cap 30 T, FR Cap 30 T CoolStar, STA, STA Plus, GTA, GTA CoolStar, GTA-FR or GTA-FR CoolStar, heat-fused

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

$0 < P \leq -82.5$

20 per 4 x 8 ft board

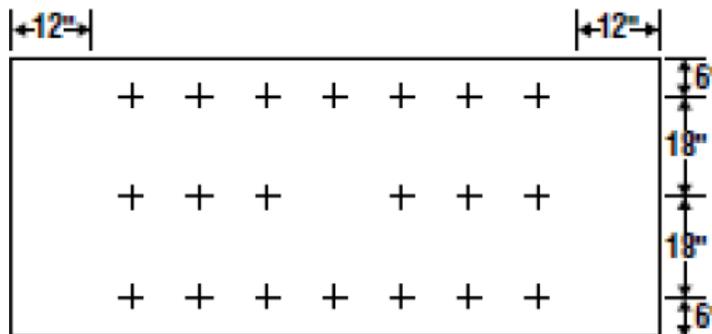


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
55. (S-4)	Min. 22-ga., Type B Steel (Recover)	(Optional) Max. 0.5" FlintBoard ISO or FlintBoardHISO	Loose-laid	Min. 0.5" SECUROCK Gypsum-Fiber Roof Board	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 2 ft ² .	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or FlintlasticBase 20 fully adhered with FlintBond Brush at 1 gal/sq.	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic PremiumFR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1 gal/sq

Design Pressure: P ≤ -45 psf

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
56. (S-5)	Min. 22-ga., Type B, Grade 40 Steel	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #15 EHD fasteners with FlintFast 3" Plates or Trufast #15 EHD Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1 ft ² . NOTE: Stress plates must be primed with FlintPrime QD 0.5 to 1.0 gal/sq.	None	N/A	Flintlastic SA PlyBase or Flintlastic SA MidPly, self-adhering	(Optional) Flintlastic SA PlyBase or Flintlastic SA MidPly, self-adhering	Flintlastic SA Cap FR, SA Cap CoolStar, SA Cap FR or SA Cap FR CoolStar, self-adhering
57. (S-6)	Min. 22-ga., Type B, Grade 40 Steel	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #15 EHD fasteners with FlintFast 3" Plates or Trufast #15 EHD Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1 ft ² . NOTE: Stress plates must be primed with FlintPrime QD 0.5 to 1.0 gal/sq.	None	N/A	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhering	(Optional) Flintlastic Ultra Poly SMS Base or Flintlastic Base 20 T, heat-fused	Flintlastic FR Cap 30 T, FR Cap 30 T CoolStar, GTS, GTS CoolStar, GTS-FR or GTS-FR CoolStar, heat-fused
58. (S-7)	Min. 22-ga., Type B, Grade 40 Steel	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #15 EHD fasteners with FlintFast 3" Plates or Trufast #15 EHD Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1 ft ² . NOTE: Stress plates must be primed with FlintPrime QD 0.5 to 1.0 gal/sq.	None	N/A	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhering	(Optional) Flintlastic APP Base T or Flintlastic STA, heat-fused	Flintlastic STA, GTA, GTA CoolStar, GTA-FR or GTA-FR CoolStar, heat-fused
59. (S-8)	Min. 22-ga., Type B, Grade 40 Steel	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #15 EHD fasteners with FlintFast 3" Plates or Trufast #15 EHD Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1ft ² . NOTE: Stress plates must be primed with FlintPrime QD 0.5 to 1.0 gal/sq.	None	N/A	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhering	(Optional) Flintlastic Base 20, Flintlastic Poly SMS Base or Flintlastic Ultra Poly SMS Base, hot asphalt	Flintlastic Cap 30, Cap 30 CoolStar, FR Cap 30, FR Cap 30 CoolStar, FR Dual Cap, FR-P, FR-P CoolStar, Premium FR-P, Premium FR-P CoolStar, GMS, or GMS CoolStar

Design Pressure: $P \leq -97.5 \text{ psf}$

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
60. (S-9)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.45 ft ²	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Insta-Stik Quik Set Insulation Adhesive, ICP Adhesive CR-20, OlyBond 500 or OlyBond 500 Green Adhesive applied in min 0.75" wide beadspaced maximum 12"o.c.	Self-adhered ^E	(APP Ply only) Heat-fused ^F or Black Diamond Base Sheet or FlintlasticUltra Glass SA, self-adhered	(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	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
61. (S-10)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Loose-Laid	Min. 0.25" SECUROCK Gypsum Fiber Roof Board	FlintFast #12 fasteners and FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.45 ft ²	(APP Baseonly) Heat-fused ^E	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused ^G

Design Pressure: $P \leq -60$ psf**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION** ^{1,2}

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
62. (S-11)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Loose Laid	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.45 ft ²	Self-adhered ^E	(APP Ply only) Heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused ^G

Design Pressure: $P \leq -75$ psf

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
63. (S-12)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.45 ft ²	Min. 0.25" SECUROCK Gypsum Fiber Roof Board	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Insta-Stik Quik Set Insulation Adhesive, OlyBond 500 or OlyBond 500 Green Adhesive, 12" o.c.	(APP Base only) Heat-fused ^E	(Optional) Black DiamondBase Sheet or Flintlastic UltraGlass SA, self-adhered	(APP Cap only) Heat-fused ^G

Design Pressure: $P \leq -75$ psf

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
64. (S-13)	Min. 22-ga., Type F, Grade 40 steel	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 or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.0 ft ²	(APP Base only) Heat-fused ^E	(Optional) Black DiamondBase Sheet or Flintlastic UltraGlass SA, self-adhered	(APP Cap only) Heat-fused ^G

Design Pressure: $P \leq -105$ psf

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

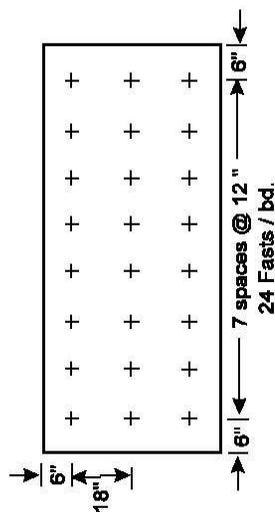
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
65. (S-14)	Min. 22-ga., Type B, Grade 33 steel	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO,	Loose laid	Min. 1/2" DensDeck Prime or SECUROCK Gypsum Fiber Roof Board	FlintFast #14 fasteners and FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast3" Metal Insulation Plates ^C with a fastening density of 1: 1.33 ft ²	Hot asphalt ^E	Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Hot asphalt or heat- fused ^G

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

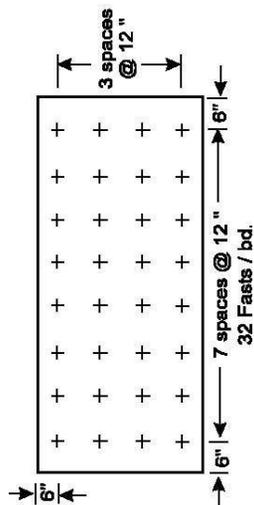
DensDeck Prime

SECUROCK Gypsum Fiber Roof Board

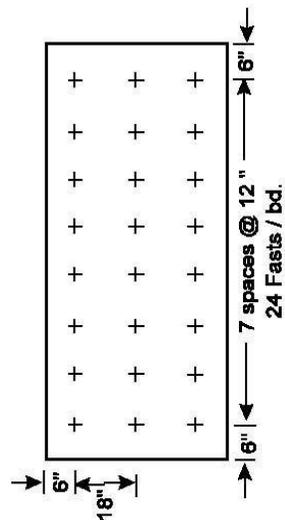
0 < P ≤ -112.5
24 per 4 x 8' board



-112.5 < P ≤ -157.5
32 per 4 x 8' board



-0 < P ≤ -157.5
24 per 4 x 8' board



-157.5 < P ≤ -172.5
32 per 4 x 8' board

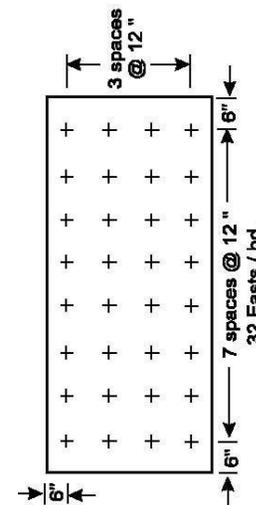


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
66. (S-15)	Min. 22-ga., Type B, Grade 33 steel	Min. 1.5" FlintBoard ISO	FlintFast #12 with FlintFast3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with a fastening density of 1.33 ft ²	Min. 1/2" High Density Wood Fiberboard	Hot Asphalt	Hot Asphalt ^E	(Optional) Hot asphalt or heat- fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	(SBS Cap only) Hot asphalt or heat- fused ^G

Design Pressure: $P \leq -67.5$ psfTABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION ^{1,2}

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
67. (S-16)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	FlintFast #12 with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates ^C with with a fastening density of 1.6 ft ²	Min. 0.25" SECUROCK Gypsum- Fiber RoofBoard	Adhered with Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Insta-Stik, OlyBond 500 or Olybond 500 Green spaced 12" o.c.	Flintlastic Poly SMS Base, Flintlastic UltraPoly SMS Base or Flintlastic Base 20 adhered with FlintBond Brush, at a rate of 1.0-1.5 gal/sq.	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P or Flintlastic FR-P CoolStar adhered with FlintBond Brush, at a rate of 1.0-1.5 gal/sq.	

Design Pressure: $P \leq -75.0$ 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
68. (W-30)	Min. 19/32"plywood	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" FlintBoard ISO applied in hot asphalt at 25 lbs/square.	None	Black DiamondBase Sheet or Flintlastic UltraGlass SA, self-adhered	(Optional) Hot asphalt orheat-fused ^F orBlack Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Hot asphalt or heat- fused ^G
69. (W-31)	Min. 19/32"plywood	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 appliedin hot asphalt at 25 lbs/square.	Min. 0.25" thick DensDeck or DensDeck Prime appliedin hot asphaltat 25 lbs/square.	Hot asphalt ^E	(Optional) Hot asphalt orheat-fused ^F orBlack Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Hot asphalt or heat- fused ^G

Design Pressure (psf)

0 < P ≤ -60

Anchor Sheet Fastener Spacing

Maximum 8" o.c. in a 4" lap and 8" o.c. in three 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
70. (W-32)	Min. 19/32" plywood	CertainTeedAll WeatherEmpire, Flexiglas Base Sheet, Flintlastic Poly SMS Base Sheet or FlintlasticUltra 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-Stik Quik Set Insulation Adhesive, in beads spaced max. 4" o.c. Note: Adhesive rate must be increased to full-coverage in all perimeter and corner zones	(Optional) Min. 0.25" DensDeck, DensDeck Prime or SECUROCK Gypsum-FiberRoof Board applied in Insta-Stik 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 QD 0.5 to 1.0 gal/sq.	Self- adhered ^E	(Optional) Self- adhered ^F	Self- adhered ^G

Design Pressure (psf) Anchor Sheet Fastener Spacing

0 < P ≤ -60 Maximum 8" o.c. in a 3" lap and 8" o.c. in three 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	LWC	Anchor Sheet	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
71. (LWC-5)	Min. 22 ga., Type BV, Grade 40 steel deck	Min. 470 psi Celcore MF Cellular lightweight concrete Deck Treatment: Celcore S-1 Deck Preparation, approx. 1/16" thick LWC Treatment: Celcore PVA Curing Compound	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Yosemite Venting Base or Flintlastic Base 20 mechanically attached with Trufast FM-90 Base Sheet Fastener	None	N/A	None	N/A	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	None	Flintlastic GTS-FR, GTS-FR CoolStar, GTS, GTS CoolStar, FR Cap 30 T or FR Cap 30 T CoolStar, heat-fused

Design Pressure (psf) Anchor Sheet Fastener Spacing

0 < P ≤ -45.0 Maximum 7" o.c. in a 4" lap and 7" o.c. in two 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	LWC	Anchor Sheet	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
72. (LWC-6)	Min. 22 ga., Type BV, Grade 40 steel deck	Min. 490 psi Elastizell Range III Cellular lightweight concrete	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Yosemite Venting Base or Flintlastic Base 20 mechanically attached with Trufast FM-90 Base Sheet Fastener	None	N/A	None	N/A	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	None	Flintlastic GTS-FR, GTS-FR CoolStar, GTS, GTS CoolStar, FR Cap 30 T or FR Cap 30 T CoolStar, heat-fused

Design Pressure (psf) Anchor Sheet Fastener Spacing

0 < P ≤ -45.0 Maximum 7" o.c. in a 4" lap and 7" o.c. in two 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	LWC	Anchor Sheet	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
73. (LWC-7)	Min. 22 ga., Type BV, Grade 40 steel deck	Min. 470 psi Celcore MF Cellular lightweight concrete Deck Treatment: Celcore S-1 Deck Preparation, approx. 1/16" thick LWC Treatment: Celcore PVA Curing Compound	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Yosemite Venting Base or Flintlastic Base 20 mechanically attached with Trufast FM-90 Base Sheet Fastener	Min. 1.5" FlintBoard ISO	Hot asphalt	Min. 0.75" FescoBoard, min. 0.125" STURDY-DEK Asphaltic Cover Board, min. 0.25" DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or 0.5" Structodek HD with Primed Red Coating	Hot asphalt	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Flintlastic Base 20, Poly SMS Base or Ultra Poly SMS Base, hot asphalt	None	Flintlastic GTS-FR, GTS- FR CoolStar, GTS, GTS CoolStar, FR Cap 30 T or FR Cap 30 T CoolStar, heat-fused

Design Pressure (psf) Anchor Sheet Fastener Spacing

0 < 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

TABLE 3 (Continued): WIND UPLIFT PERFORMANCE – MECHANICALLY ATTACHED ANCHOR SHEET ^{1,2}										
Assembly No.	Substrate	LWC	Anchor Sheet	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
74. (LWC-8)	Min. 22 ga., Type BV steel deck	Min. 490 psi Elastizell Range III Cellular lightweight concrete	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Yosemite Venting Base or Flintlastic Base 20 mechanically attached with Trufast FM-90 Base Sheet Fastener	Min. 1.5" FlintBoard ISO	Hot asphalt	Min. 0.75" FescoBoard, min. 0.125" STURDY-DEK Asphaltic Cover Board, min. 0.25" DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board or 0.5" Structodek HD with Primed Red Coating	Hot asphalt	Glasbase Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Flintlastic Base 20, Poly SMS Base or Ultra Poly SMS Base, hot asphalt	None	Flintlastic GTS-FR, GTS- FR CoolStar, GTS, GTS CoolStar, FR Cap 30 T or FR Cap 30 T CoolStar, heat-fused

Design Pressure (psf) Anchor Sheet Fastener Spacing

0 < P ≤ -67.5 Maximum 7" o.c. in a 4" lap and 7" o.c. in two equally spaced, staggered rows in the field of the sheet

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	BaseSheet	Ply Sheet	Cap Sheet
75. (W-33)	Min. 15/32" plywood	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 12" o.c.	Min. 0.25" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 12" o.c.	Flintlastic 20 T, Ultra Poly SMS Base, STA, GTA, GTA CoolStar, GTA-FR or GTA-FR CoolStar, heat-fused	(Optional)Flintlastic 20 T, Ultra Poly SMS Base, STA, GTA, GTA CoolStar, GTA-FR or GTA-FR CoolStar, heat-fused	Flintlastic GTS-FR, GTS-FR CoolStar, FR Cap 30 T, FR Cap 30 T CoolStar, STA, GTA, GTA CoolStar, GTA-FR or GTA-FR CoolStar, heat-fused
						Glasbase Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Flintlgas Ply Sheet Type IV, Premium Ply Sheet Type VI, Flintlastic Base 20, Poly SMS Base or Ultra Poly SMS Base, hot asphalt	Glasbase Sheet, All Weather/Empire Base Sheet, Flexiglas Base, Flintlgas Ply 4, Premium Ply 6, Flintlastic Base 20, Poly SMS Base or Ultra Poly SMS Base, hot asphalt	Flintlastic FR Cap 30, FR Cap 30 CoolStar, FR Dual Cap, FR Dual Cap CoolStar, FR-P, FR-P CoolStar, Premium FR-P, Premium FR-P CoolStar, GMS or GMS CoolStar, hot asphalt

Design Pressure: P ≤ -60.0 psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹								
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
76. (W-34)	Min. 15/32" plywood	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 6" o.c.	Min. 1.5" FlintBoard ISO primed with FlintPrime QD 0.5 to 1.0 gal/sq.	Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 6" o.c.	Flintlastic SA PlyBase or SA MidPly, self-adhered	(Optional) Flintlastic SA PlyBase or SA MidPly, self-adhered	Flintlastic SA Cap, SA Cap FR CoolStar, SA Cap FR or SA Cap FR CoolStar, self-adhered

Design Pressure: $P \leq -97.5$ psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
77. (C-1)	Min. 2,500 psi structural concrete	FlintPrime QD	Min. 2" FlintBoard ISO or FlintBoard _H ISO	Hot Asphalt	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure: $P \leq -172.5$ psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
78. (C-2)	Min. 2,500 psi structural concrete	None	Min. 2" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive in beads spaced 12" o.c.	Min. 0.25" 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: $P \leq -172.5$ psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
79. (C-3)	Min. 2,500 psi structural concrete	None	Min. 1.5" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive, ICP Adhesive CR-20, OlyBond 500 or OlyBond 500 Green Adhesive in beads spaced 12" o.c.	Min. 0.25" DensDeck or DensDeck Prime	Dow Insta-Stik Quik Set Insulation Adhesive, ICP Adhesive CR-20, OlyBond 500 or OlyBond 500 Green Adhesive, in beads spaced 12" o.c.	Heat-fused ^E	(Optional) Heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused ^G

Design Pressure: P ≤ -112.5 psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
80 (C-4)	Min. 2,500 psi structural concrete	(Optional) FlintPrime QD	Min. 1.5" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive, ICP Adhesive CR-20, OlyBond 500 or OlyBond 500 Green Adhesive, in beads spaced 12" o.c. or Dow Spray-N-Grip in full coverage	Min. 0.25" DensDeck or DensDeck Prime primed with FlintPrime QD 0.5 to 1.0 gal/sq.	Dow Insta-Stik Quik Set Insulation Adhesive, ICP Adhesive CR-20, 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: $P \leq -120.0$ psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
81. (C-5)	Min. 2,500 psi structural concrete	FlintPrime QD	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 0.25", DensDeck, DensDeck Prime	Hot Asphalt	Heat-fused ^E	(Optional) Heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	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	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
82. (C-6)	Min. 2,500 psi structural concrete	FlintPrime QD	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 0.25" DensDeck primed with FlintPrime QD 0.5 to 1.0 gal/sq.	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	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
83. (C-7)	Min. 2,500 psi structural concrete	FlintPrime QD	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Hot asphalt or heat-fused ^E	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G

Design Pressure: P ≤ -180.0 psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
84. (C-8)	Min. 2,500 psi structural concrete	FlintPrime QD	Min. 2" FlintBoard ISO	Hot Asphalt	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Hot asphalt ^E	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G
85. (C-9)	Min. 2,500 psi structural concrete	None	Min. 2" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive, in beads spaced 12" o.c.	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Dow Insta-Stik QuikSet Insulation Adhesive, in beads spaced 12" o.c.	Hot asphalt ^E	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G

Design Pressure: $P \leq -225.0$ psf**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
86. (C-10)	Min. 2,500 psi structural concrete	FlintPrime QD	Min. 2" FlintBoard ISO	Hot Asphalt	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Heat-fused ^E	(Optional) Heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused ^G

Design Pressure: $P \leq -232.5$ psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
87. (C-11)	Min. 2,500 psi structural concrete	None	Min. 2" FlintBoard ISO	Dow Insta-Stik Quik Set Insulation Adhesive, in beads spaced 12" o.c.	Min. 0.25" 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 or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused ^G

Design Pressure: $P \leq -232.5$ psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
88. (C-12)	Min. 2,500 psi structural concrete	None	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Millennium One Step Foamable Adhesive or FlintFast QS Insulation Adhesive, 12" o.c.	Min. 0.25" SECUROCK Gypsum- Fiber RoofBoard	Millennium One Step Foamable Adhesive or FlintFast QS Insulation Adhesive, 12" o.c.	(APP Base only) Heat-fused ^E	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused ^G

Design Pressure: $P \leq -252.5$ psf**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
89. (C-13)	Min. 2,500 psi structural concrete	FlintPrime QD	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 0.25" DensDeck or DensDeck Prime	Hot Asphalt	Heat-fused ^E	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G

Design Pressure: $P \leq -240.0$ psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
90. (C-14)	Min. 2,500 psi structural concrete	FlintPrime QD	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 3/4" FescoBoard (homogeneous)	Hot Asphalt	Heat-fused ^F	(Optional) Hot asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused ^G

Design Pressure: $P \leq -412.5$ psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
91. (C-15)	Min. 2,500 psi structural concrete	FlintPrime QD	Min. 1.5" FlintBoard ISO or FlintBoard _H ISO	Hot Asphalt	None	N/A	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused ^G (Exclude Flintlastic STA) (SBS Cap only) Hot Asphalt or heat-fused ^G

Design Pressure: $P \leq -375$ psf

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
92. (C-16)	Min. 2,500 psi structural concrete	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, FlintFast QS Insulation Adhesive or Insta-Stik Quik Set Insulation Adhesive, applied in min. 0.75" wide beads spaced maximum 12" o.c.	Min. 0.25" SECUROCK Gypsum- Fiber RoofBoard	Adhered with OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive or Insta-Stik Quik Set Insulation Adhesive, applied 0.75" wide beads spaced maximum 12" o.c.	Flintlastic Base20, Flintlastic Poly SMS BaseSheet or Flintlastic UltraPoly SMS BaseSheet fully adhered with FlintBond Brush at 1 gal/sq	None	Flintlastic FR-P, FlintlasticFR-P CoolStar, Flintlastic Premium FR-P, FlintlasticPremium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1 gal/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	Vapor Retarder	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
93. (C-17)	Min. 2,500 psi structural concrete	Flintlastic SA PlyBase	Min. 0.5" of one or more layers of FlintBoard ISO or FlintBoard _H ISO	OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive or Insta-Stik 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	OlyBond500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive or Insta-Stik 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 Brushat 1 gal/sq	None	Flintlastic FR-P, FlintlasticFR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1 gal/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	Primer	Vapor Retarder	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
94. (C-18)	Min. 2,500 psi structural concrete	FlintPrime QD	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 1 gal/sq.	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1 gal/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 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
95. (C-19)	Min. 2,500 psi structural concrete	FlintPrime QD	None	N/A	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Hot asphalt applied at a rate of 25 lbs/sq.	Flintlastic Ultra Poly SMS Base or Flintlastic Base 20 T, heat-fused	(Optional) Flintlastic Ultra Poly SMS Base or Flintlastic Base 20 T, heat-fused	Flintlastic GMS or Flintlastic GMS CoolStar hot mopped with hot asphalt or Flintlastic GTS, Flintlastic GTS CoolStar, Flintlastic GTS-FR, Flintlastic GTS-FR CoolStar, Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar, heat-fused

Design Pressure: $P \leq -487.5$ psf**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹**

Assembly No.	Substrate	Vapor Retarder	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
96. (C-20)	Min. 2,500 psi structural concrete	Flintlastic Ultra Poly SMS Base Sheet or All Weather/Empire Base Sheet applied in Millennium Hurricane Force Membrane Adhesive HS, 6" o.c. Side laps sealed with Millennium Hurricane Force Lap and Flashing Adhesive	Min. 2.0" FlintBoard _H ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 12" o.c.	Min. 0.5" DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board primed with FlintPrime QD 0.5 to 1.0 gal/sq.	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 12" o.c.	Flintlastic SA MidPly or PlyBase, self-adhered	None	Flintlastic SA Cap, SA Cap FR CoolStar, SA Cap FR or SA Cap FR CoolStar, self-adhered

Design Pressure: $P \leq -82.5$ psf

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

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
97. (C-21)	Min. 2,500 psi structural concrete	Min. 2.5" FlintBoard ISO	Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 12" o.c.	Min. 0.25" DEXcell FA Glass Mat Roof Board	Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 12" o.c.	Flintlastic Poly SMS Base Sheet applied in FlintBond SBS Modified Bitumen Adhesive	Flintlastic Poly SMS Base Sheet applied in FlintBond SBS Modified Bitumen Adhesive	Flintlastic Premium FR-P CoolStar applied in FlintBond SBS Modified Bitumen Adhesive

Design Pressure: $P \leq -90.0$ psf**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
98. (C-22)	Min. 2,500 psi structural concrete	Min. 2.5" FlintBoard ISO	Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 6" o.c.	Min. 0.25" DEXcell FA Glass Mat Roof Board	Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 6" o.c.	Flintlastic Poly SMS Base Sheet applied in FlintBond SBS Modified Bitumen Adhesive	Flintlastic Poly SMS Base Sheet applied in FlintBond SBS Modified Bitumen Adhesive	Flintlastic Premium FR-P CoolStar applied in FlintBond SBS Modified Bitumen Adhesive

Design Pressure: $P \leq -112.5$ psf

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

Assembly No.	Substrate	Vapor Retarder	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
99. (C-23)	Min. 2,500 psi structural concrete primed with FlintPrime QD, applied at a rate of 0.5 to 1.0 gal/sq.	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Min. 1.5" FlintBoard _H ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 6" o.c.	Min. 0.5" ACFoam-HD Coverboard or H-Shield HD primed with FlintPrime QD, applied at a rate of 1.0 gallon/square.	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 6" o.c.	Flintlastic SA MidPly or SA PlyBase, self-adhered	None	Flintlastic SA Cap FR, SA Cap FR CoolStar, SA Cap or SA Cap CoolStar, self-adhered

Design Pressure: P ≤ -315.0 psf

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

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
100. (LWC-9)	Min. 2,500 psi structural concrete	Min. 200 psi, min. 2" thick Elastizell	One or more layers, min. 1.5" FlintBoard ISO	OlyBond 500, OlyBond 500 Green or SpotShot in 1.0" ribbons spaced 12" o.c.	Min. 0.25" DensDeck or DensDeck Prime	OlyBond 500, OlyBond 500 Green or SpotShot in 1.0" ribbons spaced 12" o.c.	Flintlastic Base 20 T, heat-fused	(Optional) Flintlastic Base 20 T, heat-fused or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Flintlastic FR Cap 30 T, heat-fused

Design Pressure: P ≤ -150.0 psf

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

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
101. (LWC-10)	Min. 2,500 psi structural concrete	Min. 200 psi, min. 2" thick Elastizell	One or more layers, min. 1.5" FlintBoard ISO	OlyBond 500, OlyBond 500 Green or SpotShot in 1.0" ribbons spaced 12" o.c.	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	OlyBond 500, OlyBond 500 Green or SpotShot in 1.0" ribbons spaced 12" o.c.	Flintlastic Base 20 T, heat-fused	(Optional) Flintlastic Base 20 T, heat-fused or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Flintlastic FR Cap 30 T, heat-fused

Design Pressure: $P \leq -180.0$ psf**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹**

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
102. (LWC-11)	Min. 2,500 psi structural concrete	Min. 200 psi Mearlcrete, Celcore or Elastizell LWC	Min. 1.0" FlintBoardH ISO or FlintBoardH ISO Cold	ICP Adhesive CR-20 in 3.0 – 3.5" ribbons spaced 12" o.c.	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board, DensDeck or DensDeck Prime	ICP Adhesive CR-20 in 3.0 – 3.5" ribbons spaced 12" o.c.	Flintlastic Base 20 T, heat-fused	(Optional) Flintlastic Base 20 T, heat-fused or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Flintlastic FR Cap 30 T, heat-fused

Design Pressure: $P \leq -180.0$ psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹							
Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Roof Cover		
			Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
103. (LWC-12)	Min. 22 ga., Type B steel deck	Elastizell with Zell-Fibers is applied with an 1/8" slurry coat followed by min. 1" thick EPS holey board and a min. 2" thick top coat fastened with FlintFast #14 fasteners with FlintFast 3" Round Plates or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates at 1:8 ft ²	Min. 1.5" FlintBoard _H ISO Cold	OlyBond 500 or OlyBond 500 Green in 3/4" wide ribbons spaced 6" o.c.	Glasbase™ Base Sheet, All Weather/Empire Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet applied in Millennium Hurricane Force Membrane Adhesive HS in 1/2"–3/4" wide ribbons spaced 6" o.c.	None	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P or Flintlastic Premium FR-P CoolStar applied in Millennium Hurricane Force Membrane Adhesive HS in 1/2"–3/4" wide ribbons spaced 6" o.c.

Design Pressure: $P \leq -67.5$ psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹									
Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
104. (LWC-13)	Min. 2,500 psi structural concrete	3" thick cap of Mearlcrete Lightweight Insulation Concrete, 39 pcf wet cast density	Min. 0.25" Insulfoam EPS, 1.0 pcf or min. 1.0" FlintBoard _H ISO, FlintBoard _H ISO Cold or min. 1.5" FlintBoard ISO	ICP Adhesive CR-20 in 1.5" ribbons spaced 12" o.c.	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board or DensDeck	ICP Adhesive CR-20 in 1.5" ribbons spaced 12" o.c.	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	None	Hot Asphalt or heat-fused ⁶

Design Pressure: $P \leq -75.0$ psf

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

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Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
105. (LWC-14)	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell LWC	One or more layers of FlintBoard ISO, FlintBoard _H ISO, FlintBoard _H ISO Cold	ICP Adhesive CR-20 in 3.0" –3.5" ribbons spaced 12" o.c.	(Optional) Min. 0.25" SECUROCK Gypsum-Fiber Roof Board, High Density Wood Fiberboard, DensDeck or DensDeck Prime	ICP Adhesive CR-20 in 3.0" –3.5" ribbons spaced 12" o.c.	Hot Asphalt ^E	Hot Asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot Asphalt or heat-fused ^G

Design Pressure: $P \leq -180.0$ psfTABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
106. (LWC-15)	Min. 2,500 psi structural concrete	Min. 200 psi Celcore LWC	One or more layers of FlintBoard ISO, FlintBoard _H ISO, FlintBoard _H ISO Cold	ICP Adhesive CR-20 in 3.0" –3.5" ribbons spaced 12" o.c.	(Optional) Min. 0.25" SECUROCK Gypsum-Fiber Roof Board, High Density Wood Fiberboard, DensDeck or DensDeck Prime	ICP Adhesive CR-20 in 3.0"–3.5" ribbons spaced 12" o.c.	Hot Asphalt ^E	Hot Asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot Asphalt or heat-fused ^G

Design Pressure: $P \leq -222.5$ psf

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

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
107. (LWC-16)	Min. 2,500 psi structural concrete	Min. 200 psi Mearlcrete LWC	One or more layers of FlintBoard ISO, FlintBoard _H ISO, FlintBoard _H ISO Cold	ICP Adhesive CR-20 in 3.0 – 3.5" ribbons spaced 12" o.c.	(Optional) Min. 0.25" SECUROCK Gypsum-Fiber Roof Board, High Density Wood Fiberboard, DensDeck or DensDeck Prime	ICP Adhesive CR-20 in 3.0" – 3.5" ribbons spaced 12" o.c.	Hot Asphalt ^E	Hot Asphalt or heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	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	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
108. (LWC-17)	Min. 2,500 psi structural concrete	Min. 200 psi, min. 2" Elastizell LWC	Min. 2.0" FlintBoard ISO or FlintBoard _H ISO	OlyBond 500 or OlyBond 500 Green in 3/4" ribbons spaced 12" o.c.	Min. 0.25" SECUROCK Gypsum-Fiber RoofBoard	OlyBond 500 or OlyBond 500 Green in 3/4" ribbons spaced 12" o.c.	Heat-fused ^E	(Optional) Heat-fused ^F or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused ^G

Design Pressure: P ≤ -225.0 psf

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

Assembly No.	Substrate	LWC	Vapor Retarder	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
				Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
109. (LWC-18)	Min. 2,500 psi structural concrete	Min. 420 psi, min. 2" Elastizell LWC	All Weather/Empire Base Sheet or Flintlastic Ultra Poly SMS Base Sheet applied in Millennium Hurricane Force Membrane Adhesive HS, 6" o.c. Side laps sealed with Millennium Hurricane Force Lap and Flashing Adhesive	Min. 2.0" FlintBoard _H ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 12" o.c.	Min. 2.0" FlintBoard ISO primed with FlintPrime QD 0.5 to 1.0 gal/sq.	Millennium PG-1 Pump Grade Adhesive or FlintFast LV Insulation Adhesive, 12" o.c.	Flintlastic SA MidPly or PlyBase, self-adhered	None	Flintlastic SA Cap FR, SA Cap FR CoolStar, SA Cap or SA Cap CoolStar, self-adhered

Design Pressure: $P \leq -67.5$ psfTABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet	
110. (LWC-19)	Min. 22-ga., Type B, Grade 40	Min. 300 psi Celcore MF Cellular lightweight concrete Deck	Min. 1.5" FlintBoard _H ISO, FlintBoard ISO or H-Shield CG	Polysat Board-Max, Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive, FlintFast LV Insulation Adhesive, Polysat CR-20 or OlyBond 500 in continuous ribbons spaced 12" o.c.	Min. 1.5" FlintBoard ISO	OlyBond 500 in continuous ribbons spaced 12" o.c.	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhering	Flintlastic APP Base T, STA, Ultra Poly SMS Base or Base 20 T, heat-fused		Flintlastic GTA-FR, GTA-FR CoolStar, STA, GTA, GTA CoolStar, FR Cap 30 T, FR Cap 30 T CoolStar, GTS, GTS CoolStar, GTS-FR or GTS-FR CoolStar, heat-fused

Design Pressure: $P \leq -52.5$ psf

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

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
111. (LWC-20)	Min. 2,500 psi structural concrete	Min. 300 psi Celcore MF Cellular lightweight concrete Deck	Min. 1.5" FlintBoard _H ISO, FlintBoard ISO or H-Shield CG	Polysset Board-Max, Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive, FlintFast LV Insulation Adhesive, Polysset CR-20 or OlyBond 500 in continuous ribbons spaced 12" o.c.	Min. 1.5" FlintBoard ISO	OlyBond 500 in continuous ribbons spaced 12" o.c.	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhering	Flintlastic APP Base T, STA, Ultra Poly SMS Base or Base 20 T, heat-fused	Flintlastic GTA-FR, GTA-FR CoolStar, STA, GTA, GTA CoolStar, FR Cap 30 T, FR Cap 30 T CoolStar, GTS, GTS CoolStar, GTS-FR or GTS-FR CoolStar, heat-fused

Design Pressure: P ≤ -215.0 psf

TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER ¹								
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
112. (G-2)	Poured Gypsum	Min. 1.5" FlintBoard _H ISO, FlintBoard ISO or H- Shield CG	Polyset Board-Max, Millennium One Step Foamable Adhesive, FlintFast QS Insulation Adhesive, Millennium PG-1 Pump Grade Adhesive, FlintFast LV Insulation Adhesive, Polyset CR-20 or OlyBond 500 in continuous ribbons spaced 12" o.c.	Min. 1.5" FlintBoard ISO	OlyBond 500 in continuous ribbons spaced 12" o.c.	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhering	Flintlastic APP Base T, STA, Ultra Poly SMS Base or Base 20 T, heat-fused	Flintlastic GTA-FR, GTA-FR CoolStar, STA, GTA, GTA CoolStar, FR Cap 30 T, FR Cap 30 T CoolStar, GTS, GTS CoolStar, GTS-FR or GTS-FR CoolStar, heat-fused

Design Pressure: P ≤ -187.5 psf

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
113. (W-35)	Min. 15/32" plywood	FlintPrime QD, applied at a rate of 0.5 to 1.0 gal/sq.	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
114. (W-36)	Min. 7/16" OSB	FlintPrime QD	Flintlastic SA MidPly, self-adhered	None	Flintlastic SA Cap or Flintlastic SA Cap FR, self-adhered

Design Pressure: $P \leq -90.0$ psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate ^A	LWC	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
115. (LWC-21)	Min. 22 ga., Type BV, Grade 40 steel deck	Min. 487 psi Cellular lightweight concrete (pre-existent) Note: Patch holes or spalls with Celcore SBS	Flintlastic Ultra Poly SMS Base Sheet applied in Millennium Hurricane Force Membrane Adhesive HS, ribbons at 6" o.c. Side laps sealed with Millennium Hurricane Force Lap and Flashing Adhesive	None	Flintlastic GMS, GMS CoolStar, FR Cap 30, FR Cap 30 CoolStar, FR-P, FR-P CoolStar, Premium FR-P or Premium FR-P CoolStar applied in Millennium Hurricane Force Membrane Adhesive HS, ribbons at 6" o.c. Side laps sealed with Millennium Hurricane Force Lap and Flashing Adhesive

Design Pressure: $P \leq -97.5$ psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
116. (C-24)	Min. 2,500 psi structural concrete	FlintPrime QD 0.5 to 1.0 gal/sq.	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure: $P \leq -550.0$ psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
117. (C-25)	Min. 2,500 psi structural concrete	FlintPrime QD	Self-adhered ^E	(Optional) Self-adhered ^F	Self-adhered ^G

Design Pressure: $P \leq -630.0$ psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
118. (C-26)	Min. 2,500 psi structural concrete	FlintPrime QD	Heat-fused ^E	(Optional) Heat-fused ^F or Black Diamond BaseSheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused ^G

Design Pressure: $P \leq -542.5$ psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹					
Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
119. (C-27)	Min. 2,500 psi structural concrete	FlintPrime QD	Black Diamond Base Sheet, self- adhered or Flintlastic Ultra Glass SA, self-adhered	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Heat-fused ^G (Exclude Flintlastic STA) (SBS Cap only) Hot Asphalt or heat-fused ^G

Design Pressure: $P \leq -150.0$ psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹

Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
120. (C-28)	Min. 2,500 psi structural concrete	FlintPrime QD	(APP Base only) Heat-fused ^E	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only)Heat-fused ^G

Design Pressure: P ≤ -420.0 psf**TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹**

Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
121. (C-29)	Min. 2,500 psi structural concrete	FlintPrime QD	Flintlastic Base 20, Flintlastic Poly SMS Base or Flintlastic Ultra Poly SMS Base applied in FlintBond Brush at 1-1.5 gal./sq.	(Optional) Flintlastic Base 20, Flintlastic Poly SMS Base or Flintlastic Ultra Poly SMS Base applied in FlintBond Brush at 1-1.5 gal./sq.	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar or Flintlastic Premium GMS applied in FlintBond Brush at 1-1.5 gal./sq.

Design Pressure: P ≤ -262.5 psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER ¹

Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
122. (C-30)	Min. 2,500 psi structural concrete	FlintPrime QD	Flexiglas Base Sheet, FlintglasPly 4, Glasbase™ Base Sheet, All Weather/Empire Base Sheet, Flintglas Premium Ply 6, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet applied in hot asphalt at 20-40 lbs./sq.	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered or Flexiglas Base Sheet, Flintglas Ply 4, Glasbase™ Base Sheet, All Weather/Empire Base Sheet, Flintglas Premium Ply 6, Flintlastic Base20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet applied in hot asphalt at 20-40 lbs./sq.or Flintlastic Ultra Poly SMS Base Sheet, Flintlastic Base 20 T, Flintlastic APP Base T, Flintlastic STA or FlintlasticSTA Plus, heat-fused.	Flintlastic Cap 30, Flintlastic Cap 30 CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic GMS or Flintlastic GMS CoolStar applied in hot asphalt at 20-40 lbs./sq. or Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic GTS, Flintlastic GTS CoolStar, Flintlastic GTS-FR, Flintlastic GTS-FR CoolStar, Flintlastic STA, Flintlastic STA Plus, Flintlastic GTA, FlintlasticGTA CoolStar, Flintlastic GTA-FR or FlintlasticGTA-FR CoolStar, heat-fused.

Design Pressure: P ≤ -635.0 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 must not overhang the edge of the roof.
 If the roof does not have a parapet wall surrounding it, then install 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 fastener and plate combinations specified in the assembly. Do not mix screws and plates from different manufacturers.
 - FlintFast #12 or Trufast #12 DP Fastener: #3 Phillips truss head, TruKote epoxy coating, FM4470 corrosion resistance.
 - FlintFast #14 or Trufast #14 HD Fastener: #3 Phillips truss head, TruKote epoxy coating, FM 4470 corrosion resistance.
 - FlintFast 3" Insulation Plate or Trufast 3" Metal Insulation Plate: 3" Galvalume Metal Insulation Plate, 20 ga. Galvalume steel.
 - FlintFast 3" Round Plate: 3" Round Galvalume Metal Stress Plate.
 - Simplex MAXX Cap: 3" Head x 1" Long with a 0.099" Shank Diameter Stress Plate.
 - FlintFast #15 EHD or Trufast #15 EHD: #3 Phillips truss head, TruKote epoxy coating, FM4470 corrosion resistance.
 - FlintFast 2" Barbed Seam Plate or Trufast 2" Barbed Metal Seam Plate: 2" Round Galvalume Metal Stress Plate.
 - FlintFast 2.4" Barbed Seam Plate or Trufast 2.4" Barbed Metal Seam Plate: 2.4" Round Galvalume Metal Stress Plate.
 - Trufast 2.4" Scoop Seam Plate: 2.4" Round Galvalume Metal Stress Plate.
 - Trufast 2-3/4" Barbed Metal Seam Plate (EHD): 2.75" Round Galvalume Metal Stress Plate.
 - Twin Loc-Nail: 2.7" Head x 1.4", 1.8", 2.8", 3.8" and 4.8" Long Three-Piece Factory Preassembled Fastener/Plate Unit.
 - FM-90: 2.7" Head x 1.7" Long Two-Piece Factory Preassembled Base Ply Fastener/Plate Unit.
- A. New wood structural panel sheathing (plywood or OSB) must be attached to structural supports to meet design pressure requirements of the project.
- B. Cap nails must be of sufficient length to penetrate the underside of the sheathing by not less than 1/2". Cap nails must 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 must be of sufficient length to penetrate the underside of the sheathing by not less than 3/4".
- D. Nails and tin caps must be of sufficient length to penetrate the underside of the sheathing by not less than 1/2". Nails must be minimum 11-gauge, annular ring shank nails having not less than 20 rings per inch, and heads not less than 3/8" diameter. Caps must be not less than 1-5/8" diameter and not less than 32-gauge sheet metal.

E. Unless otherwise noted, BASE SHEET consists of:

- For hot asphalt applied: One ply of CertainTeed Glasbase™ Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS 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, Flintlastic Ultra Poly SMS Base Sheet, Flintlastic APP Base-T, Flintlastic STA or Flintlastic STA Plus.
- For self-adhering:
 - Flintlastic SA MidPly, Flintlastic SA PlyBase, Flintlastic SA NailBase (only for use with self-adhered ply or cap sheets).
 - Black Diamond™ Base Sheet (only for use with torch applied or hot applied ply or cap sheets).
 - Flintlastic Ultra Glass SA (only for use with torch applied, hot applied, or cold applied ply or cap sheets).

F. Unless otherwise noted, PLY SHEET consists of:

- For hot asphalt applied: One ply of CertainTeed Glasbase™ Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, All Weather / Empire 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, Flintlastic Ultra Poly SMS Base Sheet, Flintlastic APP Base-T, Flintlastic STA or Flintlastic STA Plus.
- For self-adhering:
 - Flintlastic SA MidPly, Flintlastic SA PlyBase (only for use with self-adhered ply or cap sheets).
 - BlackDiamond™ Base Sheet (only for use with torch applied or hot applied ply or cap sheets).
 - Flintlastic Ultra Glass SA (only for use with torch applied, hot applied, or cold applied ply or cap sheets).

G. Unless otherwise noted, CAP sheet consists of:

- For hot asphalt applied: One ply of Flintglas MS Cap Sheet, Flintglas MS Cap Sheet CoolStar, Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar applied in hot asphalt at 25lbs/square.
- For heat-fused: One ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic STA, Flintlastic STA Plus, Flintlastic GTS-FR, Flintlastic GTS-FR CoolStar, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar. Application of a coating over the smoothsurfaced Flintlastic STA or Flintlastic STA Plus 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. Self-adhering cap sheets may not be used with BlackDiamond™ Base Sheet or Flintlastic Ultra Glass SA.

Note: Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.