

## Product Evaluation

RC47 | 0119

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:** January 1, 2019

**Re-evaluation date:** October 2022

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

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

### General description:

- **Flintlastic STA** 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.

**General Description (Continued):**

- **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 Dual Cap** SBS modified bitumen fire-resistant granule fiberglass mat roll roofing membrane intended for use as a cap sheet.
- **Flintlastic FR Dual Cap CoolStar** SBS modified bitumen fire-resistant white reflective surfaced roll roofing membrane intended for use as a cap sheet.
- **Flintlastic FR-P CoolStar** SBS modified bitumen fire-resistant white reflective surfaced roll roofing products are intended for use as a cap sheet.
- **Flintlastic Premium FR-P CoolStar** SBS modified bitumen fire-resistant white reflective surfaced roll roofing products are intended for use as a cap sheet.
- **Flintlastic FR Cap 30** SBS modified bitumen fire-resistant fiberglass mat roll roofing membrane intended for use as a cap sheet or as a heavy-duty venting type base sheet.
- **Flintlastic FR Cap 30 T** granule surfaced SBS modified bitumen fire-resistant membrane with fiberglass mat reinforcement for torch application.
- **Flintlastic FR Cap 30 CoolStar** SBS modified bitumen fire-resistant fiberglass mat roll roofing membrane with a white, reflective top surface intended for use as a cap sheet in mop applications.
- **Flintlastic FR Cap 30 T CoolStar** SBS modified bitumen fire-resistant fiberglass mat roll roofing membrane with a white, reflective top surface intended for use as a cap sheet in torch applications.
- **Flintlastic Base 20** SBS modified bitumen, fire resistant, coated fiberglass base sheet intended for hot asphalt applications.
- **Flintlastic Base 20 T** SBS modified bitumen, fire resistant, coated fiberglass base sheet intended for heat-fused (torch) application.
- **Flintglas Ply Sheet Type IV** is a fiberglass reinforced, asphalt impregnated ply sheet.
- **Flintglas Premium Ply Sheet Type VI** is a fiberglass reinforced, asphalt impregnated base/ply sheet.
- **Flintglas 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.

**General Description (Continued):**

- **Flintlastic GTA CoolStar** APP modified bitumen roll roofing membrane intended for heat-fused (torch) application only.
- **Flintlastic GTA-FR CoolStar** APP modified bitumen fire-resistant white reflective surfaced roll roofing membrane intended for heat-fused (torch) application only.
- **Flintlastic SA Cap** SBS modified polyester and fiberglass scrim reinforced granule surfaced cap sheet designed for self-adhered application.
- **Flintlastic SA Cap FR** SBS modified bitumen fire-resistant, fiberglass scrim reinforced, granule surfaced cap sheet designed for self-adhered application.
- **Flintlastic SA Cap CoolStar** SBS modified polyester and fiberglass scrim reinforced white reflective surfaced cap sheet designed for self-adhered application.
- **Flintlastic SA Cap FR CoolStar** SBS modified polyester fire-resistant and fiberglass scrim reinforced white reflective surfaced cap sheet designed for self-adhered application.
- **Flintlastic SA Mid Ply** SBS modified bitumen, polyester/fiberglass scrim reinforced film surfaced base or ply sheet designed for self-adhered application.
- **Flintlastic SA PlyBase** SBS modified bitumen, fiberglass scrim reinforced film surfaced base or ply sheet designed for self-adhered application.
- **Flintlastic SA NailBase** SBS modified fiberglass reinforced film surfaced base sheet designed for use as a base sheet under self-adhered applications.
- **Glasbase™ Base Sheet** fiberglass reinforced, asphaltic base sheet.
- **All Weather/Empire Base Sheet** fiberglass reinforced, asphaltic base sheet.
- **Flexiglas Base Sheet** fiberglass reinforced, SBS modified asphaltic base sheet.
- **Flintlastic Poly SMS Base Sheet** polyester reinforced, SBS modified, asphaltic base sheet.
- **Black Diamond™ Base Sheet** SBS modified bitumen, fiberglass scrim reinforced film, fine-mineral surfaced base or ply sheet designed for self-adhered application.
- **Yosemite Venting Base Sheet** is a heavy-duty fiberglass mat surfaced with mineral granules and embossed channels for venting moisture.
- **Flintlastic Ultra Glass SA** SBS modified bitumen, fiberglass scrim reinforced film, fine-mineral surfaced base or ply sheet designed for self-adhered application.
- **Flintlastic APP Base-T** fiberglass mat surfaced, SBS modified asphaltic base sheet.
- **Flintprime SA Water-Based Polymer Modified Primer** designed for priming fasteners, and roof decks under self-adhered membranes.

**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<sub>H</sub> ISO** is a closed-cell polyisocyanurate foam core bonded to glass fiber reinforced facers on both sides.
- **FlintBoard<sub>H</sub> 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.

**Insulations and Coverboards (Continued):**

- **DensDeck DuraGuard** 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 High Density Fiberboard Roof Insulation** 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.
- **Millennium PG-1 Pump Grade Adhesive** is a two-component, VOC free, all purpose, low rise, polyurethane foamable 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.
- **FlintFast #14** 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.
- **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.
- **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.

**Fasteners and Plates (Continued):**

- **Trufast #15 EHD** is a carbon steel screw with #3 Phillips drive, modified truss head for use in steel, wood or concrete decks.
- **Trufast #21 EHD** 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.

**Primers:**

**FlintPrime** is a low VOC asphalt primer.

**FlintPrime SA** 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.

**For all applications:** Roof decks, in which this product is to be installed upon, shall 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 appointed engineer. The Texas Department of Insurance 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.

**Positive Drainage:** 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 Texas Department of Insurance 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 Texas Department of Insurance 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 Texas Department of Insurance 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 Texas Department of Insurance 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, the IBC, and the Texas Revisions.

<b>APPENDIX 1: ATTACHMENT REQUIREMENTS FOR WIND UPLIFT RESISTANCE</b>					
<b>Table</b>	<b>Deck</b>	<b>Assembly No.</b>	<b>Application</b>	<b>Description</b>	<b>Page</b>
1	Wood	W-1 through W-19	New, or Reroof (Tear-Off)	Mech. Attached Base Sheet, Bonded Roof Cover	9-17
	Wood	W-20	New, Reroof (Tear-Off) or Recover	Mech. Attached Base Sheet, Bonded Roof Cover	18
	Steel	S-1 and S-2	New, or Reroof (Tear-Off)	Mech. Attached Base Sheet, Bonded Roof Cover	19
	Steel	S-3	New, Reroof (Tear-Off) or Recover	Mech. Attached Base Sheet, Bonded Roof Cover	20
	Steel	SC-1 through SC-5	New or Reroof (Tear-Off)	Mech. Attached Base Sheet, Bonded Roof Cover	21-25
	LWC	LWC-1 through LWC-3	New or Reroof (Tear-Off)	Mech. Attached Base Sheet, Bonded Roof Cover	25-26
2	Wood	W-21 through W-28	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	27-31
	Wood	W-29	New, Reroof (Tear-Off) or Recover	Mech. Attached Insulation, Bonded Roof Cover	32
	Steel	SC-6 through SC-8	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	33-35
	Steel	SC-9 through SC-11	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	36-37
	Steel	SC-12	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	38
	Steel	SC-13 and SC-14	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	39-40
	Steel	S-4	New, Reroof (Tear-Off) or Recover	Mech. Attached Insulation, Bonded Roof Cover	41
	Steel	S-5 through S-12	New or Reroof (Tear-Off)	Mech. Attached Insulation, Bonded Roof Cover	42-46
3	Wood	W-30 through W-32	New or Reroof (Tear-Off)	Mech. Attached Anchor Sheet, Bonded Roof Cover	47-48
4	Concrete	C-1 through C-22	New or Reroof (Tear-Off)	Bonded Insulation, Bonded Roof Cover	49-62
	LWC	LWC-4 through LWC-9	New or Reroof (Tear-Off)	Bonded Insulation, Bonded Roof Cover	62-65
5	Wood	W-33	New or Reroof (Tear-Off)	Non-Insulated, Bonded Roof Cover	65
	Concrete	C-23 through C-29	New or Reroof (Tear-Off)	Non-Insulated, Bonded Roof Cover	65-68



**TABLE 1: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	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 <sup>B</sup> 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 <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup> or applied in FlintBond Brush at 1.5 gal/square.

**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<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	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-inch thick formed steel discs and No. 12-13, No. 3 Phillips drive, truss head corrosion resistant screws <sup>C</sup>	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 <sup>1,2</sup>									
Assembly No.	Substrate <sup>A</sup>	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 <sub>H</sub> 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 <sup>C</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

**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 <sup>1,2</sup>									
Assembly No.	Substrate <sup>A</sup>	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 <sup>D</sup>	(Optional) Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>

**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 <sup>1,2</sup>									
Assembly No.	Substrate <sup>A</sup>	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 <sup>D</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>
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 <sup>D</sup>	Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>

**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 <sup>1,2</sup>							
Assembly No.	Substrate <sup>A</sup>	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 <sup>C</sup> NOTE: Stress plates must be primed with FlintPrime SA	Self-Adhered <sup>F</sup>	Self-Adhered <sup>G</sup>

**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 <sup>1,2</sup>									
Assembly No.	Substrate <sup>A</sup>	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 Flintlastic Poly SMS Base Sheet	1-inch Simplex Metal Cap nails <sup>B</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>
9. (W-9)	Min. 15/32" plywood	None	N/A	None	N/A	Flintlastic SA NailBase	1-inch Simplex Metal Cap nails <sup>B</sup>	Self-Adhered <sup>F</sup>	Self-Adhered <sup>G</sup>

**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 <sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	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 <sup>C</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>
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 <sup>C</sup>	Self-Adhered <sup>F</sup>	Self-Adhered <sup>G</sup>

**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 <sup>1,2</sup>									
Assembly No.	Substrate <sup>A</sup>	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 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 <sup>c</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>
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 <sup>c</sup>	Self-Adhered <sup>F</sup>	Self-Adhered <sup>G</sup>

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

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

**TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	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, Flintlastic Base 20, Flintlastic Poly SMS Base	Mechanically fastened with Simplex MAXX Cap fasteners	(Optional) Hot asphalt or heat-fused <sup>F</sup>	Hot asphalt or heat-fused <sup>G</sup>
15. (W-15)	Min. 15/32" plywood	None	N/A	None	N/A	Flintlastic APP Base T	Mechanically fastened with Simplex MAXX Cap fasteners	(Optional) Hot asphalt or heat-fused <sup>F</sup>	(APP Cap only) Heat-fused <sup>G</sup>

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

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

**TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	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, Flintlastic PolySMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet	Cap nails <sup>B</sup> : 1" diameter, 0.032" thick metal cap with 0.120" shank diameter, annular ring shank nails	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

**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<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	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 <sup>C</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

**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<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	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 or ASTM D41 applied to MAXX Cap fasteners)	(Optional) Flintlastic SA PlyBase or Flintlastic SA Mid Ply, self-adhered	Flintlastic SA Cap FR, Flintlastic SA Cap FR CoolStar, Flintlastic SA Cap or Flintlastic SA Cap CoolStar, self-adhered

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

0 < P ≤ -45.0	Maximum 9" o.c. in a 3" lap and 12" o.c. in two equally spaced, staggered rows in the field of the sheet
45.0 < P ≤ -67.5	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<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	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 <sup>B</sup> 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 Mid Ply, self-adhered	Flintlastic SA Cap, Flintlastic SA Cap CoolStar, Flintlastic SA Cap FR or Flintlastic SA Cap FR CoolStar, self-adhered

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

0 < P ≤ -75.0	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<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
20. (W-20)	Min. 15/32" plywood (new, recover)	(Optional) One or more layers, any thickness or combination	Loose-laid	Glasbase™ Base Sheet, Flexiglas Base Sheet, 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 <sup>C</sup>	(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 Dual Cap, 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)    Base Sheet Fastener Spacing**

0 < P ≤ -52.5    Maximum 8" o.c. in a 4" lap and 8" o.c. in three equally spaced, staggered rows in the field of the sheet

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET <sup>1,2</sup>							
Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
21. (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 EHD 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) <sup>C</sup>	(Optional) Heat- fused <sup>F</sup>	Heat- fused <sup>G</sup>

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

0 < P ≤ -52.5 12" o.c. within the min 4" wide, heat-welded side lap

TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET <sup>1,2</sup>							
Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
22. (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 EHD fasteners with Trufast 2.4" Scoop Seam Plates or 2-3/4" Barbed Metal Seam Plates (EHD) <sup>C</sup>	(Optional) Heat- fused <sup>F</sup>	Heat- fused <sup>G</sup>

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

0 < P ≤ -67.5 12" o.c. within the min 4" wide, heat-welded side lap  
 -67.5 < P ≤ -112.5 6" o.c. within the min 4" wide, heat-welded side lap  
 -112.5 < P ≤ -165.0 6" o.c. within the min 4" wide, heat-welded side laps and 6-inch o.c. in one (1) center row, stripped-in with 6-inch side strips of torch-applied Poly SMS Base or UltraPoly SMS Base

**TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Roof Cover			
		Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
23. (S-3)	Min. 22 ga., Type B steel deck	(Optional) One or more layers, any thickness or combination	Loose- laid	Glasbase™ Base Sheet, Flexiglas Base Sheet, 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 Trufast 3" Metal Insulation Plates <sup>C</sup>	(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 Dual Cap, 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) Base Sheet Fastener Spacing**

0 < P ≤ -75.0 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 <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
24. (SC-1)	Min. 22-ga., Type B, Grade 33 steel	Min. 1.5", FlintBoard ISO or FlintBoard <sub>H</sub> 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 <sup>C</sup> within the 4", heat- fused side lap. (Fasteners shall engage top flange of steel deck.)	(Optional) Hot asphalt or heat- fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat- fused <sup>G</sup>

**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 <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
25. (SC-2)	Min. 22-ga., Type B, Grade 33 steel	Min. 1.5", FlintBoard ISO or FlintBoard <sub>H</sub> 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 <sup>C</sup> (Fasteners shall engage top flange of steel deck.)	(Optional) Hot asphalt or heat- fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat- fused <sup>G</sup>

**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** <sup>1,2</sup>

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
26. (SC-3)	Min. 22-ga., Type B, Grade 33 steel	Min. 1.5", FlintBoard ISO or FlintBoard <sub>H</sub> 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 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 <sup>C</sup> (Fasteners shall engage top flange of steel deck.)	Hot asphalt or heat- fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Hot asphalt or heat- fused <sup>G</sup>

**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** <sup>1,2</sup>

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attach	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
27. (SC-4)	Min. 22-ga., Type B, Grade 80 steel	Min. 1.5", FlintBoard ISO or FlintBoard <sub>H</sub> 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 <sup>C</sup> (Fasteners shall engage top flange of steel deck.)	(Optional) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused <sup>G</sup>

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

0 < P ≤ -112.5    Maximum 12" o.c. in a 4" lap and 12" o.c. in two equally spaced, staggered rows in the field of the sheet



**TABLE 1 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED BASE SHEET <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover			
		Type	Attachment	Type	Attachment	Base Sheet	Fasteners	Ply Sheet	Cap Sheet
28. (SC-5)	Min. 22-ga., Type B, Grade 80 steel	Min. 1.5", FlintBoard ISO or FlintBoard <sub>H</sub> 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 <sup>C</sup> (Fasteners shall engage top flange of steel deck.)	(Optional) Hot asphalt or heat-fused <sup>F</sup> (excluding Base 20 T) or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup> (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 <sup>1,2</sup>**

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

**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 <sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	LWC	Roof Cover			
			Base Sheet	Fasteners	Ply Sheet	Cap Sheet
30. (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 ¼" 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 <sup>F</sup> Black Diamond Base Sheet 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 <sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	LWC	Roof Cover			
			Base Sheet	Fasteners	Ply Sheet	Cap Sheet
31. (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 ¼" 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 <sup>F</sup> 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 Dual Cap, 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

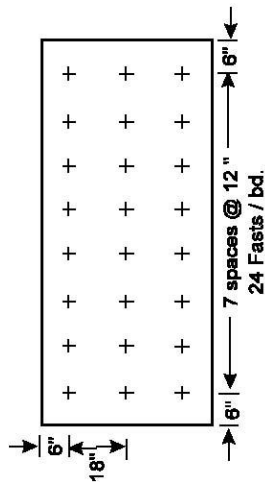
**TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
32. (W-21)	Min. 19/32 plywood	(Optional) One or more layers FlintBoard ISO or FlintBoard <sub>H</sub> ISO	Loose-laid	Min. 0.25" thick DensDeck primed with FlintPrime SA at 0.3 gal/square.	FlintFast #14 Fasteners with FlintFast 3" Insulation Plates or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup>	Self-adhered <sup>E</sup>	(Optional) Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>

**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 <sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
33. (W-22)	Min. 19/32" plywood	(Optional) One or more layers, any combination	Loose-laid	Min. 1.5" FlintBoard ISO or FlintBoard <sub>H</sub> ISO	FlintFast #12 Fastener with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup>  NOTE: Insulation and stress plates shall be primed with FlintPrime SA	Self-adhered <sup>E</sup>	(Optional) Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>

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

$0 < P \leq -45$

16 per 4 x 8' board

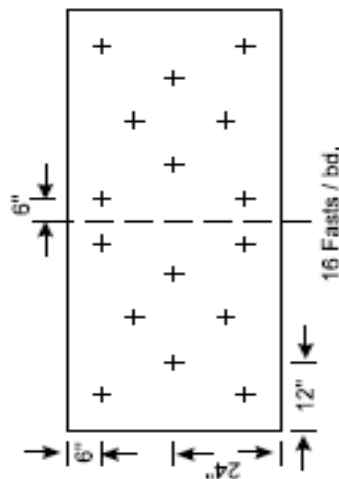


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>								
Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
34. (W-23)	Min. 15/32" plywood	Min. 1.5" FlintBoard ISO or FlintBoard <sub>H</sub> 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 <sup>C</sup> with a fastening density of 1.33ft <sup>2</sup> .	(APP Base only) Heat-fused <sup>E</sup>	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -67.5$  psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>								
Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
35. (W-24)	Min. 15/32" plywood	Min. 1.5" FlinBoard ISO or FlintBoard <sub>H</sub> ISO	Loose-laid	Min. 1.5" FlintBoard ISO or FlintBoard <sub>H</sub> ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup> with a fastening density of 1.33ft <sup>2</sup>	Self-adhered <sup>E</sup>	(APP Ply only) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused <sup>G</sup>
36. (W-25)							(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(SBS Cap only) Heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -75$  psf

**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
37. (W-26)	Min. 15/32" plywood	Min. 1.5" FlintBoard <sub>H</sub> ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup> with a fastening density of 1.33ft <sup>2</sup>	Min. 1.5" FlintBoard <sub>H</sub> ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, Insta-Stik Quik 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 <sup>E</sup>	(APP Ply only) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused <sup>G</sup>
38. (W-27)	Min. 15/32" plywood	Min. 1.5" FlintBoard <sub>H</sub> ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup> with a fastening density of 1.33ft <sup>2</sup>	Min 1/2" High Density Wood Fiberboard	Hot Asphalt	Hot asphalt <sup>E</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -67.5$  psf

**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION** <sup>1,2</sup>

Assembly No.	Substrate <sup>A</sup>	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
39. (W-28)	Min. 15/32" plywood	Min. 1.5" FlintBoard <sub>H</sub> ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup> with a fastening density of 1.33ft <sup>2</sup>	Min. 0.25" SECUROCK Gypsum Fiber Roof Board	Millennium One Step Foamable Adhesive, Millennium PG-1 Pump Grade Adhesive, Insta-Stik Quik Set Insulation Adhesive, OlyBond 500, OlyBond 500 Green Adhesive, 12" o.c.	(APP Base only) Heat-fused <sup>E</sup>	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -90$  psf

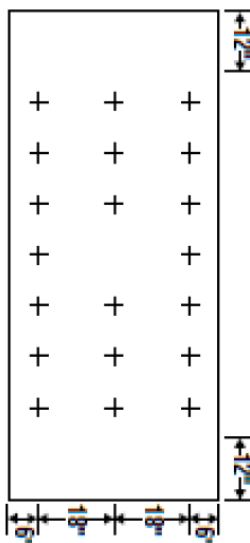
**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)	Top Insulation Layer		Roof Cover			
			Type	Attachment	Base Sheet	Primer	Ply Sheet	Cap Sheet
40. (W-29)	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 <sup>C</sup>	Flintlastic SA PlyBase, Flintlastic SA Mid Ply, Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	FlintPrime (Required only for Flintlastic SA PlyBase or Flintlastic SA Mid Ply)	(Optional) Flintlastic SA PlyBase, Flintlastic SA Mid Ply or Flintlastic Ultra Poly SMS Base, Flintlastic Base 20 T, Flintlastic APP Base T, Flintlastic STA or Flintlastic STA Plus, heat-fused	Flintlastic SA Cap, Flintlastic SA Cap CoolStar, Flintlastic SA Cap FR or Flintlastic SA Cap FR CoolStar, self-adhered or Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic GTS, Flintlastic GTS-FR, Flintlastic GTS-FR CoolStar, Flintlastic STA, Flintlastic STA Plus, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic 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







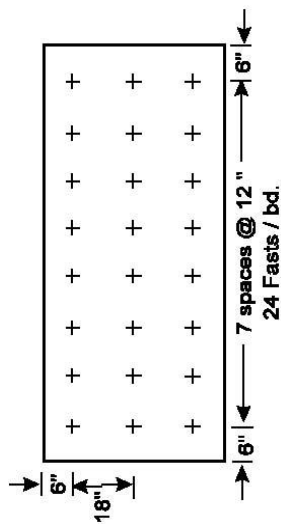
**TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
42. (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 <sub>H</sub> 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 <sup>C</sup>	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

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

$0 < P \leq -52.5$

24 per 4 x 8' board



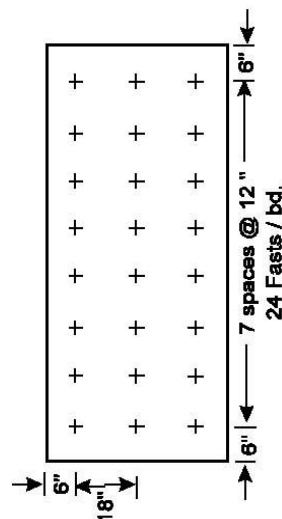
**TABLE 2: WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
43. (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 <sub>H</sub> 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 <sup>C</sup>	Black Diamond Base Sheet or Flintlastic Ultra Glass SA	(Optional) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused <sup>G</sup>

**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** <sup>1,2</sup>

Assembly No.	Substrate	Thermal Barrier	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
44. (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 <sub>H</sub> ISO	Loose-laid	Min. 1.5" FlintBoard ISO Cold or FlintBoard <sub>H</sub> 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 <sup>C</sup> with a fastening density of 2ft <sup>2</sup>	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 fully adhered with FlintBond Brush at 1ga/sq.	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq
					Min. 0.5" SEUROCK Gypsum-Fiber Roof Board				
45. (SC-10)	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. 2.0" FlintBoard ISO or FlintBoard <sub>H</sub> 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 <sup>C</sup> with a fastening density of 2ft <sup>2</sup>	Min. 1.5" FlintBoard ISO Cold or FlintBoard <sub>H</sub> ISO Cold	Adhered with OlyBond 500, OlyBond 500 Green Adhesive or Millennium PG-1 Pump Grade Adhesive applied in min. 0.75" wide beads spaced maximum 12" o.c.	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 fully adhered with FlintBond Brush at 1ga/sq.	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq
					Min. 0.25" SEUROCK Gypsum-Fiber Roof Board				

**Design Pressure:** P ≤ -45 psf

**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

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
46. (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 <sub>H</sub> 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 <sup>C</sup> with a fastening density of 1.45ft <sup>2</sup>	None	N/A	Flintlastic Ultra Glass SA, Self-Adhered	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

**Design Pressure:** P ≤ -75 psf

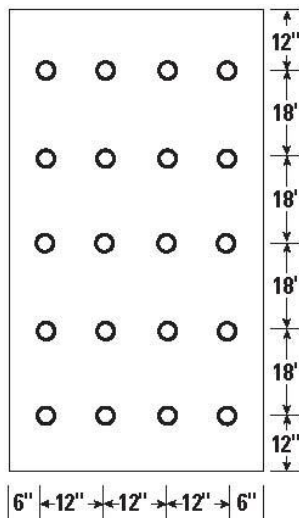
**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
47. (SC-12)	Min. 22-ga., Type B, Grade 33 steel	Min. 2.0" FlintBoard ISO or FlintBoard <sub>H</sub> 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 <sup>C</sup>	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 <sup>E</sup>	(Optional) Hot asphalt or heat- fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Hot asphalt or heat- fused <sup>G</sup>

**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 <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)	Top Insulation Layer		Roof Cover			
			Type	Attachment	Base Sheet	Primer	Ply Sheet	Cap Sheet
49. (SC-14)	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 <sup>C</sup>	Flintlastic SA PlyBase, Flintlastic SA Mid Ply, Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	FlintPrime (Required only for Flintlastic SA PlyBase or Flintlastic SA Mid Ply)	(Optional) Flintlastic SA PlyBase, Flintlastic SA Mid Ply or Flintlastic Ultra Poly SMS Base, Flintlastic Base 20 T, Flintlastic APP Base T, Flintlastic STA or Flintlastic STA Plus, heat-fused	Flintlastic SA Cap, Flintlastic SA Cap CoolStar, Flintlastic SA Cap FR or Flintlastic SA Cap FR CoolStar, self-adhered or Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic GTS, Flintlastic GTS-FR, Flintlastic GTS-FR CoolStar, Flintlastic STA, Flintlastic STA Plus, Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic 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

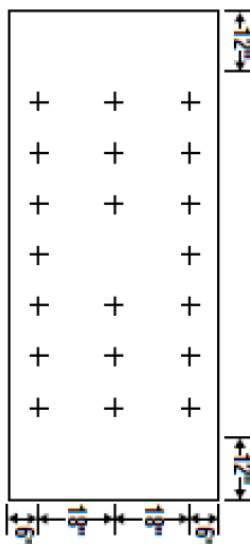




TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
50. (S-4)	Steel (Recover)	(Optional) Max. 0.5" FlintBoard ISO or FlintBoard <sub>H</sub> ISO	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 <sup>c</sup> with a fastening density of 2ft <sup>2</sup> .	Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Flintlastic Base 20 fully adhered with FlintBond Brush at 1gal/sq.	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq

**Design Pressure:**  $P \leq -45$  psf

**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
51. (S-5)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard <sub>H</sub> ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup> with a fastening density of 1.45ft <sup>2</sup>	Min. 1.5" FlintBoard <sub>H</sub> ISO or FlintBoard ISO	Millennium One Step Foamable Adhesive, Insta-Stik Quik 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 <sup>E</sup>	(APP Ply only) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	(APP Cap only) Heat- fused <sup>G</sup>

**Design Pressure:**  $P \leq -45$  psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>								
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
52. (S-6)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard <sub>H</sub> 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 <sup>C</sup> with a fastening density of 1.45ft <sup>2</sup>	(APP Base only) Heat-fused <sup>E</sup>	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused <sup>G</sup>

**Design Pressure:** P ≤ -60 psf

TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>								
Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
53. (S-7)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard <sub>H</sub> ISO or FlintBoard ISO	Loose-Laid	Min. 1.5" FlintBoard <sub>H</sub> ISO or FlintBoard ISO	FlintFast #12 fasteners with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup> with a fastening density of 1.45ft <sup>2</sup>	Self- adhered <sup>E</sup>	(APP Ply only) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	(APP Cap only) Heat- fused <sup>G</sup>

**Design Pressure:** P ≤ -75 psf

**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
54. (S-8)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard <sub>H</sub> ISO or FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup> with a fastening density of 1.45ft <sup>2</sup>	Min. 0.25" SECUROCK Gypsum Fiber Roof Board	Millennium One Step Foamable 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 <sup>E</sup>	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	(APP Cap only) Heat-fused <sup>G</sup>

**Design Pressure:** P ≤ -75 psf

**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
55. (S-9)	Min. 22-ga., Type F, Grade 40 steel	Min. 1.5" FlintBoard ISO or FlintBoard <sub>H</sub> 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 <sup>C</sup> with a fastening density of 1.0ft <sup>2</sup>	(APP Base only) Heat-fused <sup>E</sup>	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	(APP Cap only) Heat-fused <sup>G</sup>

**Design Pressure:** P ≤ -105 psf

**TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
56. (S-10)	Min. 22-ga., Type B, Grade 33 steel	Min. 1.5" FlinBoard ISO or FlintBoard <sub>H</sub> 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 Trufast 3" Metal Insulation Plates <sup>c</sup> with a fastening density of 1: 1.33ft <sup>2</sup>	Hot asphalt <sup>E</sup>	Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Hot asphalt or heat- fused <sup>G</sup>

**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

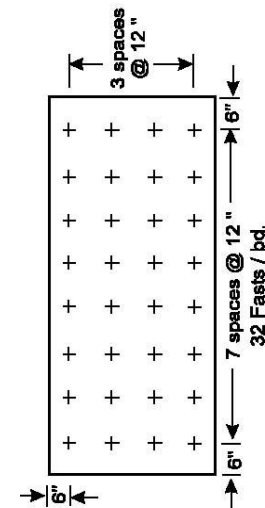
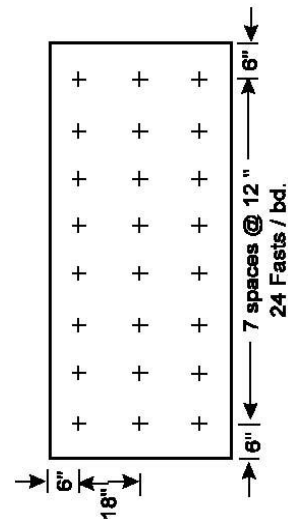
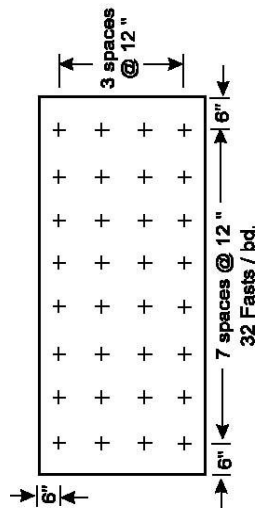
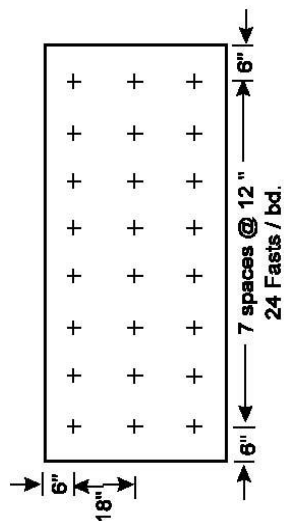


TABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
57. (S-11)	Min. 22-ga., Type B, Grade 33 steel	Min. 1.5" FlintBoard ISO	FlintFast #12 with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup> with a fastening density of 1.33ft <sup>2</sup>	Min. 1/2" High Density Wood Fiberboard	Hot Asphalt	Hot Asphalt <sup>E</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(SBS Cap only) Hot asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -67.5$  psfTABLE 2 (Continued): WIND UPLIFT PERFORMANCE - MECHANICALLY ATTACHED INSULATION <sup>1,2</sup>

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
58. (S-12)	Min. 22-ga., Type B, Grade 40 steel	Min. 1.5" FlintBoard ISO or FlintBoard <sub>H</sub> ISO	FlintFast #12 with FlintFast 3" Insulation Plates or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates <sup>C</sup> with with a fastening density of 1.6ft <sup>2</sup>	Min. 0.25" SECUROCK Gypsum- Fiber Roof Board	Adhered with Millennium One Step Foamable 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 Ultra Poly SMS Base or Flintlastic Base 20 adhered with FlintBond Brush, at a rate of 1.0-1.5 gal/sq.	Flintlastic FR Cap 30, Flintlastci FR Cap 30 CoolStar, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic FR Dual Cap or Flintlastic FR Dual Cap FR 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<sup>1,2</sup>**

Assembly No.	Substrate <sup>A</sup>	Anchor Sheet		Insulation		Roof Cover		
		Type	Attachment	Base Layer	Top Layer	Base Sheet	Ply Sheet	Cap Sheet
59. (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 <sup>D</sup>	One or more layers min. 1.5" FlintBoard ISO applied in hot asphalt at 25 lbs/square.	None	Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>
60. (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 <sup>D</sup>	One or more layers polyisocyanurate insulation applied in hot asphalt at 25 lbs/square.	Min. 0.25" thick DensDeck or DensDeck Prime applied in hot asphalt at 25 lbs/square.	Hot asphalt <sup>E</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

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

0 < P ≤ -60 Maximum 8" o.c. in a 4-inch 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 <sup>1,2</sup>								
Assembly No.	Substrate <sup>A</sup>	Anchor Sheet		Insulation		Roof Cover		
		Type	Attachment	Base Layer	Top Layer	Base Sheet	Ply Sheet	Cap Sheet
61. (W-32)	Min. 19/32" plywood	CertainTeed All Weather Empire, Flexiglas Base Sheet, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet	11-ga. annular ring shank nails and 1-5/8" diameter tin caps <sup>D</sup>	Min. 1.5" FlintBoard ISO or FlintBoard <sub>H</sub> ISO applied in Insta-Stik Quik Set Insulation Adhesive, in beads spaced max. 4" o.c.  Note: Adhesive rate shall be increased to full-coverage in all perimeter and corner zones	(Optional) Min. 0.25" DensDeck, DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board applied in Insta-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 SA	Self-adhered <sup>E</sup>	(Optional) Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>

**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 4: WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>									
Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
62. (C-1)	Min. 2,500 psi structural concrete	ASTM D41	Min. 2" FlintBoard ISO or FlintBoard <sub>H</sub> ISO	Hot Asphalt	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Self-adhered <sup>E</sup>	(Optional) Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>



**TABLE 4: WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
63. (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 <sup>E</sup>	(Optional) Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>

**Design Pressure:**  $P \leq -172.5$  psf**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
64. (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 <sup>E</sup>	(Optional) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -112.5$  psf

**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
65 (C-4)	Min. 2,500 psi structural concrete	(Optional) ASTM D41	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 SA	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 <sup>E</sup>	(Optional) Self- adhered <sup>F</sup>	Self- adhered <sup>G</sup>

**Design Pressure:**  $P \leq -120.0$  psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
66. (C-5)	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 0.25", DensDeck, DensDeck Prime or DensDeck DuraGuard	Hot Asphalt	Heat- fused <sup>E</sup>	(Optional) Heat- fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Heat- fused <sup>G</sup>

**Design Pressure:**  $P \leq -180.0$  psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
67. (C-6)	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 0.25" DensDeck primed with FlintPrime SA	Hot Asphalt	Self- adhered <sup>E</sup>	(Optional) Self- adhered <sup>F</sup>	Self-adhered <sup>G</sup>

**Design Pressure:**  $P \leq -192.5$  psf

**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
68. (C-7)	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Hot asphalt or heat-fused <sup>E</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -180.0$  psf

**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
69. (C-8)	Min. 2,500 psi structural concrete	ASTM D41	Min. 2" FlintBoard ISO	Hot Asphalt	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Hot asphalt <sup>E</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>
70. (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 Quik Set Insulation Adhesive, in beads spaced 12" o.c.	Hot asphalt <sup>E</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -225.0$  psf

**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
71. (C-10)	Min. 2,500 psi structural concrete	ASTM D41	Min. 2" FlintBoard ISO	Hot Asphalt	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Hot Asphalt	Heat-fused <sup>E</sup>	(Optional) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused <sup>G</sup>

**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
72. (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 <sup>E</sup>	(Optional) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -232.5$  psf

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

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

**Design Pressure:**  $P \leq -252.5$  psf

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

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
74. (C-13)	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 0.25" DensDeck or DensDeck Prime	Hot Asphalt	Heat-fused <sup>E</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -240.0$  psf

**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
75. (C-14)	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5" FlintBoard ISO	Hot Asphalt	Min. 3/4" FescoBoard (homogeneous)	Hot Asphalt	Heat-fused <sup>E</sup>	(Optional) Hot asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -412.5$  psf**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
76. (C-15)	Min. 2,500 psi structural concrete	ASTM D41	Min. 1.5" FlintBoard ISO or FlintBoard <sub>H</sub> 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 <sup>G</sup> (Exclude Flintlastic STA)  (SBS Cap only) Hot Asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -375$  psf



**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
		Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
77. (C-16)	Min. 2,500 psi structural concrete	Min. 0.5" of one or more layers of FlintBoard ISO or FlintBoard <sub>H</sub> ISO	Adhered with OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable 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 Roof Board	Adhered with OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable Adhesive or Insta-Stik Quik Set Insulation Adhesive, applied 0.75" wide beads spaced maximum 12" o.c.	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet fully adhered with FlintBond Brush at 1gal/sq	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq

**Design Pressure:**  $P \leq -75.0$  psf with use of Flintlastic Base 20 base sheet

$P \leq -105.0$  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 <sup>1</sup>

Assembly No.	Substrate	Vapor Retarder	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
78. (C-17)	Min. 2,500 psi structural concrete	Flintlastic SA PlyBase	Min. 0.5" of one or more layers of FlintBoard ISO or FlintBoard <sub>H</sub> ISO	Adhered with OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable 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 <sub>H</sub> ISO Cold	Adhered with OlyBond 500 Adhesive, OlyBond 500 Green Adhesive, Millennium One Step Foamable 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 Brush at 1gal/sq	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq

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

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

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
79. (C-18)	Min. 2,500 psi structural concrete	ASTM D41	Flintlastic SA PlyBase	Min. 0.5" of one or more layers of FlintBoard ISO or FlintBoard <sub>H</sub> ISO	Adhered with OlyBond 500 Adhesive or OlyBond 500 Green Adhesive, applied in min. 0.75" wide beads spaced maximum 12" o.c.	Min. 0.25" SECUROCK Gypsum-Fiber Roof Board	Adhered with OlyBond 500 Adhesive or OlyBond 500 Green Adhesive, applied in min. 0.75" wide beads spaced maximum 12" o.c.	Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet fully adhered with FlintBond Brush at 1gal/sq.	None	Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P, Flintlastic Premium FR-P CoolStar, Flintlastic FR Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar fully adhered with FlintBond Brush at 1gal/sq
						Min. 1.5" FlintBoard ISO Cold or FlintBoard <sub>H</sub> 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 <sup>1</sup>**

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-19)	Min. 2,500 psi structural concrete	FlintPrime	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 <sup>1</sup>**

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
81. (C-20)	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:**  $P \leq -150.0$  psf

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

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
82. (C-21)	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" SECUROK 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 <sup>1</sup>**

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
83. (C-22)	Min. 2,500 psi structural concrete	Min. 200 psi Mearlcrete, Celcore or Elastizell LWC	Min. 1.0" FlintBoard <sub>H</sub> ISO or FlintBoard <sub>H</sub> 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 ≤ -180.0 psf

**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Roof Cover		
			Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
84. (LWC-4)	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 and FlintFast 3" Round Plates at 1:8 ft <sup>2</sup>	Min. 1.5" FlintBoard <sub>H</sub> 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 in 1/2" – 3/4" wide ribbons spaced 6" o.c.	None	Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic Premium FR-P or Flintlastic Premium FR-P CoolStar applied in Millennium Hurricane Force Membrane Adhesive in 1/2" – 3/4" wide ribbons spaced 6" o.c.

**Design Pressure:** P ≤ -67.5 psf

**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
85. (LWC-5)	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 <sub>H</sub> ISO, FlintBoard <sub>H</sub> 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 <sup>G</sup>

**Design Pressure:**  $P \leq -75.0$  psf**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
86. (LWC-6)	Min. 2,500 psi structural concrete	Min. 200 psi Elastizell LWC	One or more layers of FlintBoard ISO, FlintBoard <sub>H</sub> ISO, FlintBoard <sub>H</sub> 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 <sup>E</sup>	Hot Asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot Asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -180.0$  psf

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

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
87. (LWC-7)	Min. 2,500 psi structural concrete	Min. 200 psi Celcore LWC	One or more layers of FlintBoard ISO, FlintBoard <sub>H</sub> ISO, FlintBoard <sub>H</sub> 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 <sup>E</sup>	Hot Asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot Asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -222.5$  psf

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

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
88. (LWC-8)	Min. 2,500 psi structural concrete	Min. 200 psi Mearlcrete LWC	One or more layers of FlintBoard ISO, FlintBoard <sub>H</sub> ISO, FlintBoard <sub>H</sub> 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 <sup>E</sup>	Hot Asphalt or heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Hot Asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -240.0$  psf



**TABLE 4 (Continued): WIND UPLIFT PERFORMANCE – BONDED INSULATION, BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	LWC	Base Insulation Layer(s)		Top Insulation Layer		Roof Cover		
			Type	Attachment	Type	Attachment	Base Sheet	Ply Sheet	Cap Sheet
89. (LWC-9)	Min. 2,500 psi structural concrete	Min. 200 psi, min. 2" Elastizell LWC	Min. 2.0" FlintBoard ISO or FlintBoard <sub>H</sub> ISO	OlyBond 500 or OlyBond 500 Green in ¾" ribbons spaced 12" o.c.	Min. 0.25" SECUROCK Gypsum- Fiber Roof Board	OlyBond 500 or OlyBond 500 Green in ¾" ribbons spaced 12" o.c.	Heat-fused <sup>E</sup>	(Optional)Heat- fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self- adhered	Heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -225.0$  psf**TABLE 5: WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate <sup>A</sup>	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
90. (W-33)	Min. 15/32" plywood	(Optional) FlintPrime SA, applied at a rate of 0.2 gallon/square.	Self-adhered <sup>E</sup>	(Optional) Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>

**Design Pressure:**  $P \leq -127.5$  psf**TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
91. (C-23)	Min. 2,500 psi structural concrete	FlintPrime SA	Self-adhered <sup>E</sup>	(Optional) Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>

**Design Pressure:**  $P \leq -550.0$  psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER <sup>1</sup>					
Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
92. (C-24)	Min. 2,500 psi structural concrete	ASTM D41	Self-adhered <sup>E</sup>	(Optional) Self-adhered <sup>F</sup>	Self-adhered <sup>G</sup>

**Design Pressure:**  $P \leq -630.0$  psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER <sup>1</sup>					
Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
93. (C-25)	Min. 2,500 psi structural concrete	ASTM D41	Heat-fused <sup>E</sup>	(Optional) Heat-fused <sup>F</sup> or Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	Heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -240.0$  psf

TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER <sup>1</sup>					
Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
94. (C-26)	Min. 2,500 psi structural concrete	ASTM D41	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 <sup>G</sup> (Exclude Flintlastic STA) (SBS Cap only) Hot Asphalt or heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -150.0$  psf

**TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
95. (C-27)	Min. 2,500 psi structural concrete	ASTM D41	(APP Base only) Heat-fused <sup>E</sup>	(Optional) Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered	(APP Cap only) Heat-fused <sup>G</sup>

**Design Pressure:**  $P \leq -420.0$  psf**TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
96. (C-28)	Min. 2,500 psi structural concrete	FlintPrime	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 Dual Cap, 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:**  $P \leq -262.5$  psf

**TABLE 5 (Continued): WIND UPLIFT PERFORMANCE – NON-INSULATED, FULLY BONDED ROOF COVER <sup>1</sup>**

Assembly No.	Substrate	Primer	Roof Cover		
			Base Sheet	Ply Sheet	Cap Sheet
97. (C-29)	Min. 2,500 psi structural concrete	FlintPrime or ASTM D41	Flexiglas Base Sheet, Flintglas Ply 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 Base 20, 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 Flintlastic STA Plus, heat-fused.	Flintlastic Cap 30, Flintlastic Cap 30 CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, 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, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar, heat-fused.

**Design Pressure:**  $P \leq -635.0$  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 shall not overhang the edge of the roof.  
 If the roof does not have a parapet wall surrounding it, then install a galvanized metal flashing with an uplifted outer perimeter edge around the perimeter of the roof.  
 The membrane must cover the flange that lays on and is fastened to the roof deck, but the uplifted outer perimeter edge must remain exposed.
2. **Mechanically Fastened Base, Anchor and Ply Sheet Installation Note, Screw and Formed Plate Descriptions:** Use the 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, FM 4470 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: CertainTeed Flintfast 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, FM 4470 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) and board decking shall be attached to structural supports to meet design pressure requirements of the project.
  - B. Cap nails shall be of sufficient length to penetrate the underside of the sheathing by not less than 1/2" or the underside of nominal 1" board decking by not less than 1/4". Cap nails shall have a min. 1" diameter by 0.032" thick metal cap and a 0.120" diameter galvanized annular ring shank.
  - C. Base sheet and insulation screws shall be of sufficient length to penetrate the underside of the sheathing by not less than 3/4".
  - D. Nails & tin cap shall be of sufficient length to penetrate the underside of the sheathing by not less than 1/2" or the underside of nominal 1" board decking by not less than 1/4". Nails shall be minimum 11-gage, annular ring shank nails having not less than 20 rings per inch, heads not less than 3/8" diameter. Cap shall be not less than 1-5/8" diameter of not less than 32-gage sheet metal.

- E. Unless otherwise noted, BASE SHEET consists of:
- For hot asphalt applied: One ply of CertainTeed Glasbase™ Base Sheet, Flexiglas 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 or Flintlastic STA.
  - For self-adhering: Flintlastic SA Mid Ply, Flintlastic SA PlyBase, Black Diamond™ Base Sheet, Flintlastic SA NailBase or Flintlastic Ultra Glass SA.
- F. Unless otherwise noted, PLY SHEET consists of:
- For hot asphalt applied: One ply of CertainTeed Glasbase™ Base Sheet, Flexiglas 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 or Flintlastic STA.
  - For self-adhering: Flintlastic SA Midply, Flintlastic SA Plybase, Black Diamond™ Base Sheet or Flintlastic Ultra Glass SA.
- G. Unless otherwise noted, CAP Sheet consists of:
- For hot asphalt applied: One ply of Flintglas 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 Dual Cap, Flintlastic FR Dual Cap CoolStar, Flintlastic FR Cap 30 or Flintlastic FR Cap 30 CoolStar applied in hot asphalt at 25 lbs/square.
  - For heat-fused: One ply of Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, Flintlastic STA, 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 smooth surfaced Flintlastic STA 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.

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