

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

CertainTeed Corporation 20 Moores Road Malvern, PA 19355

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: CertainTeed Modified Bitumen Roof System over Recover Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA #14-0529.05 and consists of pages 1 through 61. The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY
APPROVED

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ROOFING SYSTEM APPROVAL

Category: Roofing

Sub-Category: Modified Bitumen

Material: APP/SBS
Deck Type: Recover

Maximum Design Pressure: See Specific Deck Assemblies

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

		Test	Product
<u>Product</u>	Dimensions	Specification	Description
All Weather/Empire Base Sheet	39 ³ / ₈ " x 65'10"; Roll weight: 70 lbs. (2 squares)	ASTM D 4601, Type II UL Type G2	Asphalt coated, fiberglass reinforced base sheet.
Flexiglas Base Sheet	39 ³ / ₈ " x 98'9"; Roll weight: 90 lbs. (3 squares)	ASTM D 4601, Type II UL Type G2	Modified Bitumen coated fiberglass base sheet.
Flintlastic Base 20	39 ³ / ₈ " x 49'6"; Roll weight: 90 lbs. (1.5 squares)	ASTM D 6163, Grade S, Type I	Modified Bitumen coated fiberglass base sheet.
Flintglas Ply Sheet Type IV	39 ³ / ₈ " x 164'7"; Roll weight: 38 lbs. (5 squares)	ASTM D 2178, Type IV UL Type G1	Fiberglass, asphalt impregnated ply sheet.
Flintglas Premium Ply Sheet Type VI	39 ³ / ₈ " x 164'7"; Roll weight: 40 lbs. (5 squares)	ASTM D 2178, Type VI UL Type G1	Fiberglass, asphalt impregnated ply sheet.
Flintlastic STA	39 ³ / ₈ " x 32'10"; Roll weight: 87 lbs. (1 square)	ASTM D 6222, Grade S, Type I	Smooth surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application.
Flintlastic GTA	39 ³ / ₈ " x 32'10"; Roll weight: 105 lbs. (1 square)	ASTM D 6222, Grade G, Type I	Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application.
Flintlastic GTA-FR	39 ³ / ₈ " x 32' 10"; Roll weight: 105 lbs. (1 square)	ASTM D 6222, Grade G, Type I	Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application.
Flintlastic GMS	39 ³ / ₈ " x 32' 10"; Roll weight: 94 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Granule surfaced SBS Modified Bitumen membrane with non-woven polyester mat reinforcement for mop application.



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TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

Product	Dimensions	Test Specification	Product <u>Description</u>
Flintlastic FR-P	39 ³ / ₈ " x 32' 10"; Roll weight: 101 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application.
Flintlastic Premium FR-P	39 ³ / ₈ " x 32' 10"; Roll weight: 101 lbs. (1 square)	ASTM D 6164, Grade G, Type II	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application.
Flintlastic FR Dual Cap	39 ³ / ₈ " x 32' 10"; Roll weight: 103 lbs. (1 square)	ASTM D 6162, Grade G, Type I	Granule surfaced SBS modified bitumen membrane with a nonwoven polyester/fiberglass composite mat reinforcement for use in cold or mop applications.
Flintlastic FR Cap 30	39 ³ / ₈ " x 32' 10"; Roll weight: 86 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications.
Flintlastic FR Cap 30 T	39 ³ / ₈ "" x 32' 10"; Roll weight: 100 lbs. (1 square)	ASTM D6163, Grade G, Type I	Granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for torch application.
Flintlastic Base 20 T	39 ³ / ₈ "" x 33'; Roll Weight: 81lbs. (1 square)	ASTM D 6163, Grade S, Type I	Modified Bitumen, coated fiberglass base sheet for torch application.
Flintlastic FR Cap 30 CoolStar	39 ³ / ₈ " x 32' 10"; Roll weight: 88 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.
Flintlastic FR Cap 30 T CoolStar	39 ³ / ₈ " x 32' 10"; Roll weight: 102 lbs. (1 square)	ASTM D 6163, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen membrane with fiberglass mat reinforcement for mop applications. Covered with reflective CoolStar Coating.
Flintlastic GTA CoolStar	39 ³ / ₈ " x 32' 10"; Roll weight: 106 lbs. (1 square)	ASTM D 6222, Grade G, Type I	Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application. Covered with reflective CoolStar Coating.



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TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

<u>Product</u>	<u>Dimensions</u>	Test <u>Specification</u>	Product <u>Description</u>
Flintlastic GTA-FR CoolStar	39 ³ / ₈ " x 32' 10"; Roll weight: 106 lbs. (1 square)	ASTM D 6222, Grade G, Type I	Granule surfaced APP Modified Bitumen membrane with non-woven polyester mat reinforcement for torch application. Covered with reflective CoolStar Coating.
Flintlastic GMS CoolStar	39 ³ / ₈ " x 32' 10"; Roll weight: 97 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Granule surfaced SBS Modified Bitumen membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.
Flintlastic FR-P CoolStar	39 ³ / ₈ " x 32' 10"; Roll weight: 103 lbs. (1 square)	ASTM D 6164, Grade G, Type I	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.
Flintlastic Premium FR-P CoolStar	39 ³ / ₈ " x 32' 10"; Roll weight: 103 lbs. (1 square)	ASTM D 6164, Grade G, Type II	Fire resistant, granule surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop application. Covered with reflective CoolStar Coating.
Flintlastic Ultra Poly SMS Base Sheet	39 ³ / ₈ " x 32' 10"; Roll weight: 90 lbs. (1 square)	ASTM D 6164, Grade S, Type I	Smooth surfaced SBS Modified Bitumen Membrane with non-woven polyester mat reinforcement for mop applications.
Glasbase Base Sheet	39 ³ / ₈ " x 98'9"; Roll weight: 75 lbs. (3 squares)	ASTM D 4601, Type II UL Type G2	Asphalt coated, fiberglass base sheet.
Flintlastic Poly SMS Base Sheet	39 ³ / ₈ " x 64' 3"; Roll weight: 90 lbs. (2 squares)	ASTM D 4601, Grade S, Type II UL Type G2	Modified Bitumen coated polyester base sheet.
Yosemite Venting Base Sheet	39 ³ / ₈ " x 32'10"; Roll weight: 85 lbs. (1 square)	ASTM D 3909 ASTM D 4897, Type II UL Type G3	Mineral Surfaced fiberglass reinforced buffer sheet.
Flintlastic APP Base T	39 ³ / ₈ " x 65' 4"; Roll weight: 100 lbs. (2 squares)	ASTM D6509	Modified Bitumen coated fiberglass base sheet.



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Flintlastic Ultra Glass SA	39 ³ / ₈ " x 33'11"; Roll weight: 73 lbs. (1 square)	ASTM D1970	Self-adhering, fiberglass reinforced, SBS modified bitumen base/ply sheet.
Black Diamond™ Base Sheet	36" x 68'7"; Roll weight: 78 lbs. (2 squares)	ASTM D 1970	Self-adhering fiberglass reinforced modified bitumen base sheet
FlintBond Brush	5 gallon pails	ASTM D3019	Cold applied, SBS polymer modified asphalt adhesive.

APPROVED INSULATIONS:

TABLE 2 **Product Name Product Description** Manufacturer (With Current NOA) FlintBoard ISO Polyisocyanurate foam insulation CertainTeed Corp. FlintBoard_H ISO Polyisocyanurate foam insulation CertainTeed Corp. ACFoam-II Polyisocyanurate foam insulation Atlas Roofing Corp. ACFoam-III Polyisocyanurate foam insulation Atlas Roofing Corp. ACFoam-IV Polyisocyanurate foam insulation Atlas Roofing Corp. **Expanded Polystyrene** Polystyrene Insulation Generic ISO 95+ GL Polyisocyanurate foam insulation Firestone Building Products Co. H-Shield Polyisocyanurate foam insulation **Hunter Panels LLC** DensDeck Georgia Pacific Gypsum LLC Water resistant gypsum board DensDeck Prime Water resistant gypsum board Georgia Pacific Gypsum LLC ENRGY 3 Polyisocyanurate foam insulation Johns Manville Corp. **ENRGY 3 25 PSI** Polyisocyanurate foam insulation Johns Manville Corp. Ultra-Max Polyisocyanurate roof insulation RMax Operating, LCC Multi-Max FA-3 Polyisocyanurate roof insulation RMax Operating, LCC SECUROCK Gypsum-Fiber Roof Board USG Corp. Gypsum insulation Johns Manville Corp. FescoBoard Expanded perlite and fiber insulation DuraBoard Expanded mineral fiber insulation Johns Manville Corp. Structodek High Density Fiberboard Roof Wood Fiber Insulation board Blue Ridge Fiberboard Inc.



Insulation

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APPROVED FASTENERS / ADHESIVES:

TABLE 3

Fastener Number	<u>Product</u> <u>Name</u>	Product Description	<u>Dimensions</u>	<u>Manufacturer</u> (With Current NOA)
1.	Dekfast DF-#12-PH3	Insulation fastener for wood, steel and concrete decks	various	SFS Intec, Inc.
2.	Dekfast DF-#14-PH3	Insulation fastener for wood, steel and concrete decks	various	SFS Intec, Inc.
3.	Dekfast DF-#15-PH3	Insulation fastener for wood, steel and concrete decks	various	SFS Intec, Inc.
4.	Dekfast PLT-H-2-7/8	Galvalume hex stress plate.	2 7/8" x 3 ½"	SFS Intec, Inc.
5.	Dekfast PLT-P-R-3	Polypropylene locking plate.	3" x 3 1/4"	SFS Intec, Inc.
6.	#12 Standard Roofgrip	Insulation fastener for concrete, steel or wood decks.	various	OMG, Inc.
7.	#14 Roofgrip	Insulation fastener for concrete, steel or wood decks.	various	OMG, Inc.
8.	3 in. Ribbed Galvalume Plate	Galvalume stress plate.	3" round	OMG, Inc.
9.	CD-10	Insulation fastener for concrete decks.	various	OMG, Inc.
10.	Fluted Nail	Insulation fastener	various	OMG, Inc.
11.	AccuTrac Plate	Galvalume stress plate.	3" round	OMG, Inc.
12.	ASAP Roofgrip Pre- Assembled System	Pre-assembled Insulation fastener and plate	various	OMG, Inc.
13.	OMG Plastic Plate	Polypropylene plastic plate	3" round	OMG, Inc.
14.	OMG 3 in. Round Metal Plates	Galvalume AZ50 steel plate	3" round	OMG, Inc.
15.	Trufast #14 HD Fastener	Coated, carbon steel fastener	various	Altenloh, Brinck & Co. U.S., Inc.
16.	Trufast 3" TL Insulation Plate	Galvalume steel plate	3" round	Altenloh, Brinck & Co. U.S., Inc.
17.	Trufast 3" Metal Insulation Plate	Galvalume steel plate	3.23" round	Altenloh, Brinck & Co. U.S., Inc.
18.	Trufast FM-90 Base Sheet Fastener	Base ply fastening systems for lightweight concrete decks.	2.7" x 1.7"	Altenloh, Brinck & Co. U.S., Inc.
19.	Polymer Gyptec	Glass reinforced Nylon insulation fastener for gypsum & CWF decks.	various	OMG, Inc.



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APPROVED FASTENERS / ADHESIVES:

TABLE 3

<u>Fastener</u> <u>Number</u>	<u>Product</u> <u>Name</u>	Product Description	<u>Dimensions</u>	<u>Manufacturer</u> (With Current NOA)
20.	Polymer Gyptec Insulation Plate	Galvalume stress plate	3" round	OMG, Inc.
21.	Lite-Deck	Insulation fastener for CWF and Gypsum decks.	various	OMG, Inc.
22.	Lite-Deck Plate	Galvalume stress plate	3" round	OMG, Inc.
23.	Trufast Twin Loc-Nail Assembled Fastener	Galvanized stress plate and tube with integrated locking staple	2.7" round x various lengths	Altenloh, Brinck & Co. U.S., Inc.
24.	FlintFast #12 Fastener	Insulation and membrane fastener	various	CertainTeed Corp.
25.	FlintFast #14 Fastener	Insulation and membrane fastener	various	CertainTeed Corp.
26.	FlintFast 3" Insulation Plate	Galvalume AZ50 steel plate	3" round	CertainTeed Corp.
27.	Dekfast PLT-R-2-4B	Galvalume AZ55 steel plate	2" round	SFS Intec, Inc.
28.	Trufast #12 DP Fastener	Coated, carbon steel fastener	various	Altenloh, Brinck & Co. U.S., Inc.
29.	Trufast #15 EHD Fastener	Coated, carbon steel fastener	various	Altenloh, Brinck & Co. U.S., Inc.
30.	Millennium One Step Foamable Adhesive	Polyurethane two component high rise insulation adhesive	1.5 liters	Adco Products, Inc. d.b.a. Royal Adhesives & Sealants, Inc.
31.	Millennium PG-1 Low Viscosity Insulation Adhesive	Polyurethane two component low rise insulation adhesive	1.5 liters	Adco Products, Inc. d.b.a. Royal Adhesives & Sealants, Inc.
32.	ICP Adhesive CR-20	Polyurethane two component low rise insulation adhesive	Two kits (A = 40lb and B = 35lb cylinders)	ICP Adhesives & Sealants, Inc.
33.	Insta Stik Quik Set Insulation	Polyurethane one component moisture curing adhesive	It is supplied in pressurized cylinders with a net weight of 23 lbs., with a total unit weight of 30 lbs.	The Dow Chemical Company
34.	OMG OlyBond 500 Adhesive	Spray polyurethane foam insulation adhesive	10 gal. bag-in- box set and 1.5 liters SpotShot cartridge	OMG, Inc.



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APPROVED FASTENERS / ADHESIVES:

TABLE 3

<u>Fastener</u>	Product	Product		<u> Manufacturer</u>
<u>Number</u>	<u>Name</u>	Description	Dimensions	(With Current NOA)
35.	OMG OlyBond 500 Green	Spray polyurethane foam	10 gal. bag-in-	OMG, Inc.
	Adhesive	insulation adhesive	box set and 1.5	
			liters SpotShot	
			cartridge	

APPROVED SURFACING/COATING OPTIONS:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.

System Number	<u>Manufacturer</u>	Application
1.	Generic	Gravel applied at 400 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
2.	Generic	Slag applied at 300 lbs/sq., adhered with flood coat of asphalt at 60 lbs/sq.
3.	Karnak Corp.	Karnak (#97 AF) Fibrated Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
4.	CertainTeed Corp.	FlintCoat A-150 applied at an application rate of 1.5 gal/sq.
5.	Gardner Asphalt Corp.	APOC #212 Fibered Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
6.	Gardner Asphalt Corp.	APOC #400 Sunbrite applied at an application rate of 3 gal./sq.



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EVIDENCE SUBMITTED:

T / A // II / C	N	D 4	D 4
Test Agency/Identifier	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	FM 4470	0D3A3.AM	04/04/97
	FM 4470	2D0A0.AM	12/23/98
	FM 4470	1D7A4.AM	11/09/98
	FM 4470	3006025	12/28/01
	FM 4470	3014502	04/04/03
	FM 4470	3039046	06/15/10
	FM 4470	3048520	09/19/13
Underwriters Laboratories, Inc.	UL 790	R11656	01/11/13
United States Testing Company	ASTM D5147	97-457-2R	12/02/87
	ASTM D5147	97457-4	06/03/88
Momentum Technologies, Inc.	ASTM D6164	AX31G8F	06/05/09
Trinity ERD	TAS 114	3533.01.06	01/06/06
	TAS 114 (H)	Letter	04/05/06
	TAS 117 (B)	3503.10.06	10/10/06
	TAS 117 (B)	O6490.04.07-R1	06/27/07
	TAS 114	3521.07.04-R1	10/26/07
	TAS 114	C8370.08.08	08/19/08
	TAS 117 (B)/ ASTM D6862	C8500SC.11.07-R1	08/07/09
	TAS 117 & TAS 114	C30560.03.10	03/18/10
	ASTM Physical Properties	C10080.09.08-R4	03/25/10
	TAS 117 & TAS 114	C30560.06.10	06/10/10
	ASTM D6164/D4798	C31410.01.11-2	01/10/11
	ASTM D1876	C35460.05.11	06/16/11
	ASTM D4601	C40050.09.12-1	09/28/12
	ASTM D1970	C40050.09.12-2	09/28/12
	ASTM D5147/D4798	C31410.10.10-R1	11/01/12
	ASTM D5147/D4798	C31410.01.11-1-R1	11/01/12
	ASTM D1876, TAS 114 (H),	C42110.08.12	08/13/12
	TAS 117 (B)		
	ASTM D4798	C31410.01.11-2A-R1	02/21/13
	ASTM D4798	C31410.12.13	12/05/13
	ASTM D6222	C40050.12.13-R1	12/31/13
	ASTM D1876, TAS 114 (H), FM 4474	C45620.03.14	03/27/14
	FM 4470/TAS 114	C37830.07.12-R1	05/20/15
	ASTM D1876, TAS 114 (H),	C47320.03.14-R1	04/01/15
	FM 4474	5 1/320.03.11 ICI	0 1/01/13
	ASTM D4601-04 (2012), Type II	CTR-SC11145.09.16-	09/19/16
		3A	



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PRI Construction Materials	ASTM D6163	CTC-066-02-01	08/09/11
Technologies LLC	ASTM D6222	CTC-070-02-01	08/09/11
reciniologies LLC	ASTM D6164/D4798	CTC-093-02-01	08/09/11
		010 070 02 01	00,00,
	ASTM D6222	CTC 071-02-01	08/08/17
	ASTM D4601	CTC-126-02-01	03/12/12
	ASTM D2178	CTC-122-02-01	03/13/12
	ASTM D2178	CTC-123-02-01	03/13/12
	ASTM D4601	CTC-127-02-01	03/13/12
	ASTM D6509	CTC-116-02-01	04/04/12
	ASTM D6163	CTC-128-02-01	06/11/12
	ASTM D6163	CTC-129-02-01	06/11/12
	ASTM D6164	CTC-132-02-01	06/11/12
	ASTM D6164	CTC-161-02-01	05/09/13
	ASTM D6162	CTC-183-02-01	10/02/13
	ASTM D6164	CTC-190-02-01	12/02/13
	ASTM D1970	CTC-199-02-01	01/22/14
	ASTM D6163	CTC-319-02-01	08/22/17

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	<u>Identifier</u>	<u>Assemblies</u>	Date
Robert Nieminen, P.E.	Signed/Sealed Calculations	A(5), B(4), C(3), C(6), C(8), D(1)	08/31/17



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APPROVED ASSEMBLIES

Membrane Type: APP Modified

Deck Type 7I: Recover, Insulated

Deck Description: Gypsum

System Type A(1): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Yosemite Venting Base Sheet or

Flintlastic APP Base T mechanically attached to the deck as detailed below.

Fastening: Trufast FM-90 Base Sheet Fasteners spaced 9" o.c. in min. 2" side lap and two staggered rows

in center of the sheet, 12" o.c.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners	Fastener
	<u>(Table 3)</u>	Density/ft ²
ACFoam-II, FlintBoard ISO, ENRGY 3, ENRGY 3 25 PSI, H-S	hield, FlintBoard _H ISO	
Minimum 1.5" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	N/A	N/A
FescoBoard		
Minimum 3/4" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base/Ply Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, (Optional) Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintl

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTR-FR or Flintlastic GTA-FR

CoolStar torch adhered to base or ply sheet.



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Any of the approved surfacing/coating options listed in Table 4.

Maximum Design

-45 psf (See General Limitation #9.)

Pressure:



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Deck Type 7I: Recover, Insulated

Deck Description: Gypsum

System Type A(2): Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet or Yosemite Venting Base Sheet

mechanically attached to the deck as detailed below.

Fastening: Trufast FM-90 Base Sheet Fasteners spaced 9" o.c. in min. 2" side lap and two staggered rows

in center of the sheet, 12" o.c.

One or more layers of any of the following insulations:

<u>Insulation Layer</u>	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
ACFoam-II, FlintBoard ISO, ENRGY 3, ENRGY 3 25 PSI, H-Shie	ld, FlintBoard _H ISO	
Minimum 1.5" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	N/A	N/A
FescoBoard		
Minimum ³ / ₄ " thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum ¼" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base/Ply Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, **(Optional)** Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flin

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic Ultra Poly SMS Base Sheet torch applied* or one

ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered.

*Requires base sheet.



NOA No.: 17-1003.07 Expiration Date: 05/29/23 Approval Date: 04/19/18 Page 13 of 61 Membrane: One ply of Flintlastic GMS, Flintlastic 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 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to base

or ply sheet.

Surfacing: (Optional)

Any of the approved surfacing/coating options listed in Table 4.

Maximum Design

Pressure:

-45 psf (See General Limitation #9.)



NOA No.: 17-1003.07 Expiration Date: 05/29/23 Approval Date: 04/19/18 Page 14 of 61 Membrane Type: APP Modified

Deck Type 7I: Recover, Insulated

Deck Description: Cementitious Wood Fiber over steel structural supports spaced 36" o.c. and secured with

three, equally spaced, Dekfast #14 fasteners with 2" plates spaced 16" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105. See Fastening

Options for target MCRF.

System Type A(3): Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: One ply of Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, All

Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Yosemite Venting Base Sheet mechanically attached to the deck as detailed

below:

Fastening: Fastening #1 (MCRF = 70 lbf): Trufast Twin Loc-Nail Assembled Fastener spaced 7" o.c. in

4" side lap and two staggered rows in center of the sheet, 7" o.c.

<u>Fastening #2 (MCRF = 80 lbf):</u> Trufast Twin Loc-Nail Assembled Fastener spaced 9" o.c. in

4" side lap and two staggered rows in center of the sheet, 9" o.c.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u> Density/ft ²
ACFoam-II, FlintBoard ISO, ENRGY 3, Ultra-Max, H-Shield, Fl		NI/A
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	<u>(Table 3)</u>	Density/ft ²
FescoBoard		
Minimum 0.75" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum 0.5" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.



NOA No.: 17-1003.07 Expiration Date: 05/29/23 Approval Date: 04/19/18 Page 15 of 61 **Base Sheet:** One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

> Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, (Optional)

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra

Glass SA self-adhered or Flintlastic STA or Flintlastic APP Base T torch adhered.

One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-Membrane:

FR CoolStar torch adhered to base sheet or ply sheet.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

Pressure:

-60 psf (See General Limitation #7)



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Membrane Type: SBS Modified

Deck Type 7I: Recover, Insulated

Deck Description: Cementitious Wood Fiber over steel structural supports spaced 36" o.c. and secured with three,

equally spaced, Dekfast #14 fasteners with 2" plates spaced 16" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105. See Fastening Options

for target MCRF.

System Type A(4): Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: One ply of Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, All Weather/Empire

Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or

Yosemite Venting Base Sheet mechanically attached to the deck as detailed below.

Fastening: Fastening #1 (MCRF = 70 lbf): Trufast Twin Loc-Nail Assembled Fastener spaced 7" o.c. in 4"

side lap and two staggered rows in center of the sheet, 7" o.c.

Fastening #2 (MCRF = 80 lbf): Trufast Twin Loc-Nail Assembled Fastener spaced 9" o.c. in

4" side lap and two staggered rows in center of the sheet, 9" o.c.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
ACFoam-II, FlintBoard ISO, ENRGY 3, Ultra-Max, H-Shield,	, FlintBoard _H ISO	
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
FescoBoard		
Minimum 0.75" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum 0.5" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.



NOA No.: 17-1003.07 Expiration Date: 05/29/23 Approval Date: 04/19/18 Page 17 of 61 **Base Sheet:** One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, (Optional) Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sl

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic Ultra Poly SMS Base Sheet torch applied or one

ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic

FR-P, Flintlastic FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar applied to the base sheet or ply sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30

T CoolStar torch adhered to base or ply sheet.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

Maximum Design -60 psf (See General Limitation #7)

Pressure:

(Optional)

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NOA No.: 17-1003.07 Expiration Date: 05/29/23 Approval Date: 04/19/18 Page 18 of 61 Membrane Type: SBS Modified

Deck Type 7I: Recover, Insulated

Deck Description: Cellular Lightweight Concrete, min. 300 psi, over 22 ga., Type B vented, min 33 ksi steel deck

secured at 5 ft. spans with Tek/5 fasteners spaced 6" o.c. Side laps are secured with Tek/1 fasteners at 20" o.c *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 88 lbf. when tested with fasteners, listed in this assembly, installed through to the

deck in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

System Type A(5): Anchor sheet mechanically fastened, one or more layer of insulation adhered with approved

asphalt.

All General and System Limitations apply.

Anchor Sheet: One or more plies of Yosemite Venting Base Sheet, Flintlastic Poly SMS Base Sheet or

Flintlastic Ultra Poly SMS Base Sheet mechanically attached to the deck using Trufast Twin Loc-Nail Assembled Fastener spaced 9" o.c. in the 4" side lap and 9" o.c. in two evenly

divided, staggered rows in the center of the sheet.

One or more layers of any of the following insulations:

Base Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²ACFoam-II, FlintBoard ISO, ACFoam-IVN/AN/A

Note: All insulation joints shall be staggered and adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 25 lbs/100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One or more plies of Yosemite Venting Base Sheet strip-mopped with 9-inch wide ribbons of

ASTM D312, Type IV hot asphalt spaced 18-inch o.c.

Ply Sheet: One or more plies of Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base (**Optional**) Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the

Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of

25 lbs./sq.

Membrane: One ply of 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 adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 25 lbs./sq. or one ply of Flintlastic FR Cap 30 T or Flintlastic FR

Cap 30 T CoolStar, torch-applied to ply sheet.



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Any of the approved surfacing/coating options listed in Table 4.

Maximum Design

Pressure:

-60 psf (See General Limitation #7)



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Deck Type 7I: Recover, Insulated

Deck Description: Cementitious Wood Fiber over steel structural supports spaced 36" o.c. and secured with

three, equally spaced, Dekfast #14 fasteners with 2" plates spaced 16" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105. See

Fastening Options for target MCRF.

System Type A(6): Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: One ply of Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, All

Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Yosemite Venting Base Sheet mechanically attached to the deck as detailed

below.

Fastening #1: (MCRF = 70 lbf) Trufast Twin Loc-Nail Assembled Fastener spaced 7" o.c. in 4" side lap

and two staggered rows in center of the sheet, 7" o.c.

Fastening #2: (MCRF = 80 lbf) Trufast Twin Loc-Nail Assembled Fastener spaced 9" o.c. in 4" side lap

and two staggered rows in center of the sheet, 9" o.c.

One or more layers of any of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener Density/ft²

<u>(Table 3)</u>

ACFoam-II, FlintBoard ISO, ENRGY 3, Ultra-Max, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick N/A N/A

Top Insulation Layer <u>Insulation Fasteners</u> <u>Fastener Density/ft²</u>

(Table 3)

SECUROCK Gypsum-Fiber Roof Board

Minimum '/' thick N/A N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self adhered.

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic

GTA-FR CoolStar torch adhered to base sheet or ply sheet.



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Any of the approved surfacing/coating options listed in Table 4. **Surfacing:** (Optional)

−60 psf (See General Limitation #7.) **Maximum Design**

Pressure:



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Deck Type 7I: Recover, Insulated

Deck Description: Cementitious Wood Fiber over steel structural supports spaced 36" o.c. and

secured with three, equally spaced, Dekfast #14 fasteners with 2" plates spaced 16" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105. See Fastening Options for target MCRF.

System Type A(7): Anchor sheet mechanically fastened; all insulation layers adhered with approved asphalt.

All General and System Limitations apply.

Anchor Sheet: One ply of Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, All

Weather/Empire Base Sheet, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Yosemite Venting Base Sheet mechanically attached to the deck as detailed

below.

Fastening #1: (MCRF = 70 lbf) Trufast Twin Loc-Nail Assembled Fastener spaced 7" o.c. in 4" side lap

and two staggered rows in center of the sheet, 7" o.c.

Fastening #2: (MCRF = 80 lbf) Trufast Twin Loc-Nail Assembled Fastener spaced 9" o.c. in 4" side lap

and two staggered rows in center of the sheet, 9" o.c.

One or more layers of any of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener Density/ft²

(Table 3)

ACFoam-II, FlintBoard ISO, ENRGY 3, Ultra-Max, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick N/A N/A

Top Insulation Layer <u>Insulation Fasteners</u> <u>Fastener Density/ft²</u>

(Table 3)

SECUROCK Gypsum-Fiber Roof Board

Minimum 1/4" thick N/A N/A

Note: All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self adhered.



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One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas BaseSheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet self-adhered

Membrane:

One ply of Flintlastic GMS, Flintlastic GMS CoolStar, , Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar applied to the base sheet or ply sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to base or ply sheet.

Surfacing: (Optional)

Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure:

-60.0 psf (See General Limitation #7)



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Deck Type 7I: Recover, Insulated

Deck Description: Min. 2,500 psi structural concrete or concrete plank.

System Type A(8): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick N/A N/A

Top Insulation Layer Insulation Fasteners (Table 3) Fastener Density/ft²

DensDeck, DensDeck Prime

Minimum ¼" thick N/A N/A

Note: All insulation shall be adhered to the deck in 3/4" – 1" wide beads of Insta-Stik Quik Set Insulation Adhesive or Millennium One Step Foamable Insulation Adhesive, spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Base Sheet: One or more layers of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch

applied.

Ply Sheet: Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

(Optional)

Membrane: Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar, torch applied.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design -112.5 psf (with Insta-Stik Quik Set Insulation Adhesive) (See General Limitation #9)

Pressure: -157.5 psf (with Millennium One Step Foamable Insulation Adhesive)

(See General Limitation # 9)



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Deck Type 7I: Recover, Insulated

Deck Description: Min. 2,500 psi structural concrete or concrete plank.

System Type A(9): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick N/A N/A

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

DensDeck, DensDeck Prime

Minimum ¼" thick N/A N/A

Note: All insulation shall be adhered to the deck in 1" wide ribbons of OMG OlyBond 500 Adhesive or OMG OlyBond 500 Green Adhesive, spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Base Sheet: One or more layers of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch

applied.

Ply Sheet: Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

(Optional)

Membrane: Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar, torch applied.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design -150 psf (See General Limitation # 9)

Pressure:



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Deck Type 7I: Recover, Insulated

Deck Description: Min. 2,500 psi structural concrete or concrete plank.

System Type A(10): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick N/A N/A

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the deck in full mopping of approved hot asphalt within the EVT range and at a rate of 25 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Base Sheet: One or more layers of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch

applied.

Ply Sheet: Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

(Optional)

Membrane: Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

Pressure:

-180 psf (See General Limitation # 9)



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Deck Type 7I: Recover, Insulated

Deck Description: Min. 2,500 psi structural concrete or concrete plank.

System Type A(11): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard_H ISO, ISO 95+ GL

Minimum 1.5" thick N/A N/A

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: All insulation shall be adhered to the deck in 3/4" – 1" wide beads of Insta-Stik Quik Set Insulation Adhesive or 1" wide ribbons of OMG OlyBond 500 Adhesive or OMG OlyBond 500 Green Adhesive, spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Base Sheet: One or more layers of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch

applied.

Ply Sheet: Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

(Optional)

Membrane: Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar, torch applied.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

Pressure:

-120 psf (See General Limitation # 9)



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Deck Type 7I: Recover, Insulated

Deck Description: Min. 2,500 psi structural concrete or concrete plank.

System Type A(12): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

ACFoam-II, FlintBoard ISO, H-Shield, FlintBoardH ISO

Minimum 1.5" thick N/A N/A

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

SECUROCK Gypsum-Fiber Roof Board, DensDeck, DensDeck Prime

Minimum ¼" thick N/A N/A

Note: All insulation shall be adhered to the deck in $\frac{1}{2}$ " – $\frac{3}{4}$ " wide beads of Millennium One Step Foamable Adhesive or in full coverage of OlyBond Adhesive Fastener applied at a rate of 1 gal/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Base Sheet: One or more layers of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch

applied.

Ply Sheet: Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

(Optional)

Membrane: Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar, torch applied.

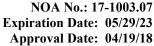
Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

Pressure:

-150 psf (See General Limitation # 9)



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Deck Type 7I: Recover, Insulated

Deck Description: Min. 2,500 psi structural concrete or concrete plank.

System Type A(13): One or more layers of insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

ACFoam-II, FlintBoard ISO, ACFoam-III, ISO 95+ GL, Multi-Max FA-3

Minimum 1.5" thick N/A N/A

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ½" thick N/A N/A

Note: All insulation shall be adhered to the deck in 3"-3.5" wide ribbons of ICP Adhesive CR-20, spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate.

Base Sheet: One or more layers of Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch

applied.

Ply Sheet: Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

(Optional)

Membrane: Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar, torch applied.

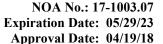
Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

Pressure:

-180 psf (See General Limitation # 9)



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Membrane Type: APP/SBS Modified Deck Type 7I: Recover, Insulated

2500 psi structural concrete or concrete plank **Deck Description:**

Base sheet and insulation adhered with approved asphalt. System Type A(14):

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	<u>Insulation Fasteners</u> (<u>Table 3)</u>	<u>Fastener</u> Density/ft ²
ACFoam-II, FlintBoard ISO, ENRGY 3, Multi-Max	x-3, H-Shield, FlintBoard _H ISO	
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	<u>Insulation Fasteners</u> (<u>Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
FescoBoard Minimum 0.75" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.

One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, **Ply Sheet:** (Optional)

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered or one ply of Flintlastic Ultra Poly SMS Base Sheet, Flintlastic STA*

or Flintlastic APP Base T* torch adhered. *only with an APP torch applied membrane



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Membrane:

One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet or ply sheet.

Or

One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar applied to the base sheet or ply sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to base or ply sheet.

Surfacing: (Optional)

Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure:

-412 psf. (See General Limitation #9).



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Deck Type 7I: Recover, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(15): Base sheet and insulation adhered with approved asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
ACFoam-II, FlintBoard ISO, ENRGY 3, Multi-Mannimum 1.5" thick	ax-3, H-Shield, FlintBoard _H ISO N/A	N/A
Top Insulation Layer	<u>Insulation Fasteners</u> (Table 3)	Fastener Density/ft ²
DuraBoard Minimum 0.5" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.

Ply Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, (Optional) Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintlastic U

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered or one ply of Flintlastic Ultra Poly SMS Base Sheet, Flintlastic STA*

or Flintlastic APP Base T* torch adhered.
*(only with an APP torch applied membrane)e



NOA No.: 17-1003.07 Expiration Date: 05/29/23 Approval Date: 04/19/18 Page 33 of 61 Membrane:

One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR CoolStar torch adhered to base sheet or ply sheet.

Or

One ply of Flintlastic GMS, Flintlastic GMS CoolStar, Flintlastic Premium GMS, Flintlastic Premium GMS CoolStar, Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar applied to the base sheet or ply sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to base or ply sheet.

Surfacing: (Optional)

Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure:

-430 psf. (See General Limitation #9).



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Deck Type 7I: Recover, Insulated

Deck Description: 19/32" or greater plywood or wood plank, 18-22 ga. Steel deck or Structural concrete.

System Type B(1): Base layers of insulation mechanically fastened, optional top layer adhered with approved

asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners	<u>Fastener</u>
	<u>(Table 3)</u>	Density/ft ²
ACFoam-II, FlintBoard ISO, ENRGY 3, ENRGY 3 25 I	PSI, H-Shield, FlintBoard _H ISO	
Minimum 1.5" thick	Approved Fastener for Deck Type	1:2 ft ²
Faces Decard		
FescoBoard		
Minimum ³ / ₄ " thick	Approved Fastener for Deck Type	1:2 ft ²
Structodek High Density Fiberboard Roof Insulation		
•		1 2 6/2
Minimum ½" thick	Approved Fastener for Deck Type	1:2 ft ²

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A
FescoBoard Minimum ¾" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.



NOA No.: 17-1003.07 Expiration Date: 05/29/23 Approval Date: 04/19/18 Page 35 of 61 **Ply Sheet:** One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, **(Optional)** Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered with approved mopping asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered or

one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR

CoolStar torch adhered to base or ply sheet.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

Maximum Design

(Optional)

Pressure: -45 psf (See General Limitation #9)



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Deck Type 7I: Recover, Insulated

Deck Description: 19/32" or greater plywood or wood plank,18-22 ga. Steel deck or Structural concrete.

System Type B(2): Base layers of insulation mechanically fastened, optional top layer adhered with approved

asphalt.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners	<u>Fastener</u>
	<u>(Table 3)</u>	Density/ft ²
ACFoam-II, FlintBoard ISO, ENRGY 3, ENRGY 3 25 I	PSI, H-Shield, FlintBoard _H ISO	
Minimum 1.5" thick	Approved Fastener for Deck Type	1:2 ft ²
Faces Decard		
FescoBoard		
Minimum ³ / ₄ " thick	Approved Fastener for Deck Type	1:2 ft ²
Structodek High Density Fiberboard Roof Insulation		
•		1 2 6/2
Minimum ½" thick	Approved Fastener for Deck Type	1:2 ft ²

Note: Base layers of insulation shall be mechanically attached using the fastener density listed. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A
FescoBoard Minimum ¾" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: Optional top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.



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One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered.

Membrane:

One ply of Flintlastic GMS, Flintlastic 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 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to base or ply sheet.

Surfacing: (Optional)

Any of the approved surfacing/coating options listed in Table 4.

Maximum Design Pressure:

-45 psf (See General Limitation #9)



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Deck Type 7I: Recover, Insulated

Deck Description: 15/32" CDX plywood mechanically attached to structural supports spaced 24-inch with 8

screws spaced 6-inch o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 179 lbf. when tested with fasteners, listed in this assembly, installed

through to the deck in accordance with TAS 105.

System Type B(3): Base layer of insulation mechanically fastened, top layer adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

 $\begin{tabular}{lll} \underline{Base\ Insulation\ Layer} & \underline{Insulation\ Fasteners} & \underline{Fastener} \\ \underline{(Table\ 3)} & \underline{Density/ft^2} \end{tabular}$

FlintBoard ISO, ACFoam-II, H-Shield, FlintBoardH ISO

Minimum 1.5" thick 17 with 28 or 24 with 26 1:1.33 ft²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

FlintBoard ISO, ACFoam-II, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick N/A N/A

Note: Top layer of insulation shall be adhered with Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive in 3/4" – 1" wide beads spaced 12 inch o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered

Ply Sheet: One or more plies of Flintlastic APP Base T or Flintlastic STA, torch adhered.

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-

FR CoolStar, torch adhered.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

-67.5 psf (See General Limitation #7.)

Pressure:



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Deck Description: 22 ga., Type B, Yield Strength 46 ksi, steel deck is secured at 6 ft. o.c. spans with Tek/5

fasteners spaced 6" o.c. Side laps are secured with Tek/1 fasteners at 18" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 217 lbf. when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS

105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

System Type B(4): Base layer of insulation mechanically fastened, top layer adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²

ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick 17 with 28 or 24 with 26 1:1.45 ft²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

 Top Insulation Layer
 Insulation Fasteners
 Fastener

 (Table 3)
 Density/ft²

SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick

N/A N/A

Note: Top layer of insulation shall be adhered with Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Insta-Stik Quik Set Insulation Adhesive, OMG OlyBond 500 Adhesive or OMG OlyBond 500 Green Adhesive in 3/4" – 1" wide beads spaced 12 inch o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

Ply Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

(Optional)

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-

FR CoolStar, torch adhered.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

Maximum Design -75 psf (See General Limitation #7)

Pressure:

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Deck Description: 15/32" CDX plywood mechanically attached to structural supports spaced 24-inch with 8

screws spaced 6-inch o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 239 lbf. when tested with fasteners, listed in this assembly, installed

through to the deck in accordance with TAS 105.

System Type B(5): Base layer of insulation mechanically fastened, top layer adhered with approved adhesive.

All General and System Limitations apply.

One or more layers of any of the following insulations.

 $\frac{\text{Base Insulation Layer}}{\text{(Table 3)}} \qquad \frac{\text{Fastener}}{\text{Density/ft}^2} \\ \text{ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard}_{\text{H}} \text{ ISO} \\ \text{Minimum 1.5" thick} \qquad 17 \text{ with 28 or 24 with 26} \qquad 1:1.33 \text{ ft}^2 \\$

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

 Top Insulation Layer
 Insulation Fasteners
 Fastener

 (Table 3)
 Density/ft²

 SECUROCK Gypsum-Fiber Roof Board
 N/A
 N/A

 Minimum ¼" thick
 N/A
 N/A

Note: Top layer of insulation shall be adhered with Millennium One Step Foamable Adhesive, Millennium PG-1 Low Viscosity Insulation Adhesive, Insta-Stik Quik Set Insulation Adhesive, OMG OlyBond 500 Adhesive or OMG OlyBond 500 Green Adhesive in 3/4" – 1" wide beads spaced 12 inch o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

Ply Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

(Optional)

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-

FR CoolStar, torch adhered.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

Maximum Design

Pressure:

-90 psf (See General Limitation #7)



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Deck Type 7I: Recover, Insulated

Deck Description: 19/32" or greater plywood or wood plank, 18-22 ga. Steel deck or Structural concrete

System Type C(1): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	<u>Fastener</u> Density/ft²
ACFoam-II, FlintBoard ISO, ENRGY 3, ENRGY 3 25 PSI,	<u> </u>	<u>Density/It</u>
Minimum 1.5" thick	N/A	N/A
Any Approved High Density Wood Fiberboard Listed in Tai Minimum ½" thick	ble 2 N/A	N/A
William /2 thick	IV/A	N/A
Any Approved Perlite Insulation Listed in Table 2	DT/A	NT/A
Minimum ¾" thick	N/A	N/A
DensDeck, DensDeck Prime		
Minimum ¼" thick	N/A	N/A

Note: All layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Any Approved Perlite Insulation Listed in Table 2 Minimum ¾" thick	Approved Fastener for Deck Type	1:2 ft ²
DensDeck, DensDeck Prime Minimum ¼" thick	Approved Fastener for Deck Type	1:2 ft ²
Any Approved High Density Wood Fiberboard Listed i Minimum ½" thick	n Table 2 Approved Fastener for Deck Type	1:2 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.



NOA No.: 17-1003.07 Expiration Date: 05/29/23 Approval Date: 04/19/18 Page 42 of 61 **Ply Sheet:** One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, **(Optional)** Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet

or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR

CoolStar torch adhered to base or ply sheet.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

Maximum Design

(Optional)

Pressure: -45 psf (See General Limitation #9)



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Deck Type 7I: Recover, Insulated

Deck Description: 19/32" or greater plywood or wood plank, 18-22 ga. Steel deck or Structural concrete

System Type C(2): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
ACFoam-II, FlintBoard ISO, ENRGY 3, ENRGY 3 25 PSI, H-Shio Minimum 1.5" thick	eld, FlintBoard _H ISO N/A	N/A
Any Approved High Density Wood Fiberboard Listed in Table 2 Minimum ½" thick	N/A	N/A
Any Approved Perlite Insulation Listed in Table 2 Minimum ¾" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: All layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Any Approved Perlite Insulation Listed in Table 2 Minimum ¾" thick	Approved Fastener for Deck Type	1:2 ft ²
DensDeck, DensDeck Prime Minimum 1/4" thick	Approved Fastener for Deck Type	1:2 ft ²
Any Approved High Density Wood Fiberboard Listed in Minimum ½" thick	Table 2 Approved Fastener for Deck Type	1:2 ft ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet, Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the insulated substrate with approved mopping asphalt applied within the EVT range and at a rate of 20-40

lbs./sq.



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One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered.

Membrane:

One ply of Flintlastic GMS, Flintlastic 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 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to base or ply sheet.

Surfacing: (Optional)

Any of the approved surfacing/coating options listed in Table 4.

Maximum Design

Pressure: -45 psf (See General Limitation #9)



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Deck Description: 22 ga., Type B, Yield Strength 46 ksi steel deck is secured at 6 ft. o.c. spans with Tek/5

fasteners spaced 6" o.c. Side laps are secured with Tek/1 fasteners at 18" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 174 lbf. when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS

105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

System Type C(3): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²ACFoam-II, FlintBoard ISO, H-Shield, FlintBoardH ISON/AN/A

Note: All layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²SECUROCK Gypsum-Fiber Roof Board12 with 14 or 18 with 201:1.45 ft²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

Ply Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

(Optional)

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-

FR CoolStar, torch adhered.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design -60 psf (See General Limitation #7)

Pressure:



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Deck Description: 15/32" CDX plywood mechanically attached to structural supports spaced 24-inch with 8

screws spaced 6-inch o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 179 lbf. when tested with fasteners, listed in this assembly, installed

through to the deck in accordance with TAS 105.

System Type C(4): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

 Base Insulation Layer
 Insulation Fasteners (Table 3)
 Fastener Density/ft²

 ACFoam-II, FlintBoard ISO, H-Shield, FlintBoardH ISO
 N/A
 N/A

Note: All layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²SECUROCK Gypsum-Fiber Roof Board6 with 7 or 14 with 161:1.33 ft²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

Ply Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

(Optional)

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-

FR CoolStar, torch adhered.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design -67.5 psf (See General Limitation #7)

Pressure:



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Deck Type 7I: Recover, Insulated

Deck Description: 15/32" CDX plywood mechanically attached to structural supports spaced 24-inch with 8

screws spaced 6-inch o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 199 lbf. when tested with fasteners, listed in this assembly, installed

through to the deck in accordance with TAS 105.

System Type C(5): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

FlintBoard ISO, ACFoam-II, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

FlintBoard ISO, ACFoam-II, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick 17 with 28 or 24 with 26 1:1.33 ft²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered

Ply Sheet: One or more plies of Flintlastic APP Base T or Flintlastic STA, torch adhered.

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic

GTA-FR CoolStar, torch adhered.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design -75.0 psf (See General Limitation #7.)

Pressure:



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Deck Type 7I: Recover, Insulated

Deck Description: 22 ga., Type B, Yield Strength 46 ksi, steel deck is secured at 6 ft. o.c. spans with Tek/5

fasteners spaced 6" o.c. Side laps are secured with Tek/1 fasteners at 18" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 217 lbf. when tested with fasteners, listed in this assembly, installed through to the deck in accordance with

TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

System Type C(6): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

FlintBoard ISO, ACFoam-II, H-Shield, FlintBoardH ISO

Minimum 1.5" thick N/A N/A

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

FlintBoard ISO, ACFoam-II, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick 17 with 28 or 24 with 26 1:1.45 ft²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA, self-adhered.

Ply Sheet: One or more plies of Flintlastic APP Base T or Flintlastic STA, torch adhered.

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic

GTA-FR CoolStar, torch adhered.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design -75 psf (See General Limitation #7.)

Pressure:



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Deck Type 7I: Recover, Insulated

Deck Description: Concrete

System Type C(7): Layer of insulation mechanically attached, optional thermal barrier loose laid.

All General and System Limitations apply.

Thermal Barrier: Min. ¼" thick DensDeck, SECUROCK Gypsum-Fiber Roof Board or GlasRoc Roof

(Optional) Board loose laid on deck.

One or more layers of any of the following insulations:

Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

FlintBoard ISO, ACFoam-II, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick 15 with 17 or 25 with 26 1:1.45 ft²

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Base Sheet: One ply of Flintlastic Ultra Glass SA, self-adhered.

Membrane: Flintlastic FR Dual Cap, Flintlastic FR-P, Flintlastic FR-P CoolStar, Flintlastic GMS,

Flintlastic GMS CoolStar, Flintlastic Premium FR-P or Flintlastic Premium FR-P

CoolStar applied in hot asphalt full coverage at a rate of 20-25 lb/sq.

Or

Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR

CoolStar torch adhered to base sheet.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design -75 psf (See General Limitation #7.)

Pressure:



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Deck Description: 22 ga., Type F, Grade 80 steel deck is secured at 6 ft. o.c. spans with Tek/5 fasteners and 3/4"

washers per fixing point spaced 6" o.c. Side laps are secured with Tek/1 fasteners at 12" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 240 lbf.

when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 240 lbf. when tested with fasteners, listed in this assembly, installed

through to the deck in accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

System Type C(8): All layers of insulation simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²

ACFoam-II, FlintBoard ISO, H-Shield, FlintBoard_H ISO

Minimum 1.5" thick N/A N/A

Note: All layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

SECUROCK Gypsum-Fiber Roof Board

Minimum 1/4" thick 13 with 15 or 19 with 21 1:1 ft²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

Ply Sheet: One ply of Flintlastic STA or Flintlastic APP Base T, torch adhered.

(Optional)

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-

FR CoolStar, torch adhered.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)



NOA No.: 17-1003.07 Expiration Date: 05/29/23 Approval Date: 04/19/18 Page 51 of 61 **Maximum Design** -120 psf (See General Limitation #7) **Pressure:**



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Deck Description: Min. 2,500 psi concrete; or 18-22 ga., Type B, Grade 80, steel deck is secured at 5 ft. o.c.

spans with Traxx/5 screws spaced 6" o.c. Side laps are secured with Traxx/1 screws at 20" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 221 lbf.

when tested with fasteners, listed in this assembly, installed through to the deck in

accordance with TAS 105.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

System Type D(1): All layers of insulation and base sheet simultaneously attached.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer (Optional)	Insulation Fasteners	Fastener
	<u>(Table 3)</u>	Density/ft ²
ACFoam-II, FlintBoard ISO, ENRGY 3, H-Shield, FlintBoard _H ISO	O, Multi-Max FA-3, H-Shield	
Minimum 1" thick	N/A	N/A
Any Approved Expanded Polystyrene (min 1.25 pcf) Listed in Tabl		
Minimum 1" thick	N/A	N/A
Any Approved Perlite Insulation Listed in Table 2	NT/A	3 .7/4
Minimum ³ / ₄ " thick	N/A	N/A
Any Approved High Density Wood Fiberboard Listed in Table 2		
Minimum ½" thick	N/A	N/A
Minimum /2 tillen	17/11	1 1/11
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Boa	ard	
Minimum ¼" thick	N/A	N/A
William 74 thick	1V/A	1 1/11
Top Insulation Layer	Insulation Fasteners	<u>Fastener</u>
	Insulation Fasteners (Table 3)	<u>Fastener</u>
Top Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u>
Top Insulation Layer ACFoam-II, FlintBoard ISO, ENRGY 3, Multi-Max FA-3, H-Shield Minimum 1" thick	Insulation Fasteners (Table 3) d, FlintBoard _H ISO N/A	<u>Fastener</u> <u>Density/ft²</u>
Top Insulation Layer ACFoam-II, FlintBoard ISO, ENRGY 3, Multi-Max FA-3, H-Shield Minimum 1" thick Any Approved Expanded Polystyrene (min 1.25 pcf) Listed in Table	Insulation Fasteners (Table 3) d, FlintBoard _H ISO N/A	Fastener Density/ft² N/A
Top Insulation Layer ACFoam-II, FlintBoard ISO, ENRGY 3, Multi-Max FA-3, H-Shield Minimum 1" thick	Insulation Fasteners (Table 3) d, FlintBoard _H ISO N/A	<u>Fastener</u> <u>Density/ft²</u>
Top Insulation Layer ACFoam-II, FlintBoard ISO, ENRGY 3, Multi-Max FA-3, H-Shield Minimum 1" thick Any Approved Expanded Polystyrene (min 1.25 pcf) Listed in Table Minimum 1" thick	Insulation Fasteners (Table 3) d, FlintBoard _H ISO N/A	Fastener Density/ft² N/A
Top Insulation Layer ACFoam-II, FlintBoard ISO, ENRGY 3, Multi-Max FA-3, H-Shield Minimum 1" thick Any Approved Expanded Polystyrene (min 1.25 pcf) Listed in Table Minimum 1" thick Any Approved High Density Wood Fiberboard Listed in Table 2	Insulation Fasteners (Table 3) d, FlintBoard _H ISO N/A e 2 N/A	Fastener Density/ft² N/A N/A
Top Insulation Layer ACFoam-II, FlintBoard ISO, ENRGY 3, Multi-Max FA-3, H-Shield Minimum 1" thick Any Approved Expanded Polystyrene (min 1.25 pcf) Listed in Table Minimum 1" thick	Insulation Fasteners (Table 3) d, FlintBoard _H ISO N/A	Fastener Density/ft² N/A
Top Insulation Layer ACFoam-II, FlintBoard ISO, ENRGY 3, Multi-Max FA-3, H-Shield Minimum 1" thick Any Approved Expanded Polystyrene (min 1.25 pcf) Listed in Table Minimum 1" thick Any Approved High Density Wood Fiberboard Listed in Table 2	Insulation Fasteners (Table 3) d, FlintBoard _H ISO N/A e 2 N/A	Fastener Density/ft² N/A N/A



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DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick

N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet, at an application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density.

Base Sheet: One ply of Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet,

mechanically attached as detailed below:

Fastening #1: OMG #14 Roofgrip fasteners and OMG 3 in. Round Metal Plates, Dekfast 14 fasteners with

Dekfast Galvalume Steel Hex Plates, or Trufast #14 HD Fasteners with Trufast 3" Metal Insulation Plates or FlintFast #14 screws and FlintFast 3" plates at 12" o.c. in the 4" wide

lap and 12" o.c. in two equally spaced staggered rows in the field.

Ply Sheet: (Optional)

Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

Membrane:

Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar, torch applied.

Surfacing:

Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

Pressure:

-112.5 psf (See General Limitation # 7)



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Deck Type 7I: Recover, Non-Insulated

Deck Description: Gypsum or Cementitious Wood Fiber over steel structural supports spaced 36" o.c. and

> secured with three, equally spaced, Dekfast #14 fasteners with 2" plates spaced 16" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS

105. See Fastening Options for target MCRF.

System Type E(1): Base sheet mechanically fastened, over smooth surface roof system only.

All General and System Limitations apply.

One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, **Base Sheet:**

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Yosemite Venting Base Sheet or

Flintlastic APP Base T* fastened to the deck as detailed below.

*Only with Trufast FM-90 Base Sheet Fasteners.

Fastening (gypsum): Fastening #1: Trufast FM-90 Base Sheet Fasteners spaced 9" o.c. in min. 2" side lap and

two staggered rows in center of the sheet, 12" o.c.

(Maximum Design Pressure –60 psf, See General Limitation #9.)

Fastening (cwf): Fastening #1, MCRF = 70 lbf: Trufast Twin Loc-Nail Assembled Fastener spaced 7" o.c. in

> 4" side lap and two staggered rows in center of the sheet, 7" o.c. (Maximum Design Pressure –67.5 psf, See General Limitation #7.)

<u>Fastening #2, MCRF = 80 lbf</u>: Trufast Twin Loc-Nail Assembled Fastener spaced 9" o.c. in

4" side lap and two staggered rows in center of the sheet, 9" o.c. (Maximum Design Pressure –60 psf, See General Limitation #7.)

Ply Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, (Optional)

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. Or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch

adhered.

Membrane: Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GTA-FR or Flintlastic GTA-FR

CoolStar torch adhered to base or ply sheet.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design See Fastening Requirements above.

Pressure:



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Deck Type 7I: Recover, Non-Insulated

Deck Description: Gypsum or Cementitious Wood Fiber over steel structural supports spaced 36" o.c. and

secured with three, equally spaced, Dekfast #14 fasteners with 2" plates spaced 16" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS

105. See Fastening Options for target MCRF.

System Type E(2): Base sheet mechanically fastened, over smooth surface roof system only.

All General and System Limitations apply.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet*

or Yosemite Venting Base Sheet fastened to the deck as detailed below.

*Only with Trufast Twin Loc-Nail Assembled Fastener

Fastening (gypsum): Fastening #1: Trufast FM-90 Base Sheet Fasteners spaced 9" o.c. in min. 2" side lap and

two staggered rows in center of the sheet, 12" o.c.

(Maximum Design Pressure -60 psf, See General Limitation #9.)

Fastening (cwf): Fastening #1, MCRF = 70 lbf: Trufast Twin Loc-Nail Assembled Fastener spaced 7" o.c. in

4" side lap and two staggered rows in center of the sheet, 7" o.c. (Maximum Design Pressure -67.5psf, See General Limitation #7.)

<u>Fastening #2, MCRF = 80 lbf</u>: Trufast Twin Loc-Nail Assembled Fastener spaced 9" o.c. in

4" side lap and two staggered rows in center of the sheet, 9" o.c. (Maximum Design Pressure -60 psf, See General Limitation #7.)

Ply Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

(Optional) Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI

adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or Flintlastic Ultra Poly SMS Base Sheet torch applied or

one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic 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 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to base

or ply sheet.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

Pressure:

See Fastening Requirements above.



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Deck Type 7I: Recover, Non-Insulated

Deck Description: Cementitious Wood Fiber over steel structural supports spaced 36" o.c. and secured with

three, equally spaced, Dekfast #14 fasteners with 2" plates spaced 16" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105. See

Fastening Options for target MCRF

System Type E(3): Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Yosemite Venting Base Sheet mechanically fastened to the deck as detailed below.

Fastening #1: $(\underline{MCRF} = 70 \text{ lbf})$ Trufast Twin Loc-Nail Assembled Fastener spaced 7" o.c. in 4" side lap and

two staggered rows in center of the sheet, 7" o.c.

(Maximum Design Pressure -67.5 psf, See General Limitation #7.)

Fastening #2: (MCRF = 80 lbf) Trufast Twin Loc-Nail Assembled Fastener spaced 9" o.c. in 4" side lap and

two staggered rows in center of the sheet, 9" o.c.

(Maximum Design Pressure -60 psf, See General Limitation #7.)

Ply Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, **(Optional)** Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered or one ply of Flintlastic STA or Flintlastic APP Base T torch adhered.

Membrane: One ply of Flintlastic GTA, Flintlastic GTA CoolStar, Flintlastic GRA-FR or Flintlastic GTA-

FR CoolStar torch adhered to base sheet or ply sheet.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

· -

Maximum Design See Fastening Requirements above.

Pressure:

(Optional)



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Deck Type 7I: Recover, Non-Insulated

Deck Description: Cementitious Wood Fiber over steel structural supports spaced 36" o.c. and secured with

three, equally spaced, Dekfast #14 fasteners with 2" plates spaced 16" o.c. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105. See

Fastening Options for target MCRF.

System Type E(4): Base sheet mechanically fastened.

All General and System Limitations apply.

Base Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or Yosemite Venting Base Sheet mechanically fastened to the deck as detailed below.

Fastening #1: $(\underline{MCRF} = 70 \text{ lbf})$ Trufast Twin Loc-Nail Assembled Fastener spaced 7" o.c. in 4" side lap and

two staggered rows in center of the sheet, 7" o.c.

(Maximum Design Pressure -67.5 psf, See General Limitation #7.)

Fastening #2: (MCRF = 80 lbf) Trufast Twin Loc-Nail Assembled Fastener spaced 9" o.c. in 4" side lap and

two staggered rows in center of the sheet, 9" o.c.

(Maximum Design Pressure -60 psf, See General Limitation #7.)

Ply Sheet: One ply of All Weather/Empire Base Sheet, Glasbase Base Sheet, Flexiglas Base Sheet, (Optional) Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet,

Flintlastic Base 20, Flintlastic Poly SMS Base Sheet, Flintlastic Ultra Poly SMS Base Sheet or one or more plies of Flintglas Ply Sheet Type IV or Flintglas Premium Ply Sheet Type VI adhered to the base sheet in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply of Flintlastic Ultra Poly SMS Base Sheet torch applied or one ply of Black Diamond Base Sheet or Flintlastic Ultra Glass SA self-adhered.

Membrane: One ply of Flintlastic GMS, Flintlastic 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 or Flintlastic FR Cap 30 CoolStar adhered to base or ply sheet with approved mopping asphalt applied within the EVT range and at a rate of 20 to 40 lbs./sq. or Flintlastic FR Cap 30 T or Flintlastic FR Cap 30 T CoolStar torch adhered to base or ply

sheet.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design See Fastening Requirements above.

Pressure:



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SBS Modified **Membrane Type:**

Deck Type 7: Recover, Non-Insulated

Deck Description: Min. 2,500 psi structural concrete

System Type F(1): Base sheet adhered with approved asphalt over existing BUR.

All General and System Limitations apply.

Base Sheet: One ply of Glasbase Base Sheet, Flexiglas Base Sheet, Flintlastic Base 20 adhered to the

existing BUR with FlintBond Brush at 1.5 gal./sq.

Ply Sheet: Flintlastic Poly SMS Base Sheet or Flintlastic Ultra Poly SMS Base Sheet adhered with

(Optional) FlintBond Brush at a rate of 1.5 gal/sq.

Flintlastic FR Cap 30, Flintlastic FR Cap 30 CoolStar, Flintlastic FR Dual Cap, Flintlastic Membrane:

FR-P, Flintlastic FR-P CoolStar adhered with FlintBond Brush at a rate of 1.5 gal./sq.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

-187.5 psf (See General Limitation # 9) **Pressure:**



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Deck Type 7: Recover, Non-Insulated

Deck Description: Min. 2,500 psi structural concrete or concrete plank.

System Type F(2): Base sheet heat welded to primed substrate

All General and System Limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet.

Base Sheet: One or more layers of Flintlastic Base 20 T, torch applied.

Ply Sheet: Flintlastic Base 20 T or Flintlastic Ultra Poly SMS Base Sheet, torch applied.

(Optional)

Membrane: Flintlastic FR Cap 30 T, Flintlastic FR Cap 30 T CoolStar, torch applied.

Surfacing: Any of the approved surfacing/coating options listed in Table 4.

(Optional)

Maximum Design

Pressure: -542.5 psf (See General Limitation # 9)



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RECOVER SYSTEM LIMITATIONS:

All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.

GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.

Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.

- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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