

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

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Mule-Hide Products Co, Inc. 1195 Prince Hall Drive Beloit, WI 53511

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: Mule-Hide Modified Bitumen Roof System Over Steel 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# 20-0902.22 and consists of pages 1 through 33. The submitted documentation was reviewed by Alex Tigera.

07/18/24



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ROOFING ASSEMBLY APPROVAL

<u>Category:</u> Roofing

Sub-Category: Modified Bitumen

MaterialsSBS/APPDeck Type:SteelMaximum Design Pressure-97.5 psf

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

Product	Dimensions	Test Specification	Product Description
G2 Base Sheet	108' x 36"	ASTM D 4601 Type II	Asphalt-coated fiberglass reinforced base sheet
Nail Base	65' 8" x 3' 3-3/8"	ASTM D 6163	SBS modified asphalt coated fiberglass reinforced base sheet.
SA Base Sheet	66' 8" x 3' 3- ³ / ₈ "	ASTM D 6163	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
SA Base Sheet FR	66' 8" x 3' 3- ³ / ₈ "	ASTM D 6163	Self-adhered, fire-rated, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a smooth top surface.
Nail Base P	65' 2" x 3' 3-3/8"	ASTM D 6164	SBS modified asphalt coated polyester reinforced base sheet.
APP Torch Base/Cap	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
APP Torch G	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and granule top surface.
APP Torch S Premier	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a smooth or sanded top surface.
APP Torch G Premier	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
APP Torch G FR Premier	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface and fire retardant chemistry.



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

Product	Dimensions	Test Specification	Product <u>Description</u>
APP Torch G KoolCap	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface.
APP Torch G FR KoolCap	32' 10" x 3' 3-3/8"	ASTM D 6222	Torch applied, fire-rated, polyester reinforced, APP modified bitumen membrane with a burn off polyethylene back face and a granule top surface and fire retardant chemistry.
APP Torch Base Premier	65' 8" x 3' 3-3/8"	ASTM D 6509	APP modified bitumen, fiberglass reinforced, base/ply sheet.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	<u>Manufacturer</u> (With Current NOA)
Poly ISO 2	Polyisocyanurate foam insulation	Mule-Hide Products Co, Inc
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corporation
DensDeck	Gypsum insulation board	Georgia-Pacific Gypsum LLC
DensDeck Prime	Gypsum insulation board	Georgia-Pacific Gypsum LLC
Mule-Hide Poly ISO 1	Polyisocyanurate foam insulation	Mule-Hide Products Co, Inc
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, a division of Carlisle Construction Materials, LLC
H-Shield-CG	Polyisocyanurate/perlite composite insulation	Hunter Panels, a division of Carlisle Construction Materials, LLC
ENRGY 3	Polyisocyanurate foam insulation	Johns Manville Corp.
FescoBoard	Expanded mineral fiber	Johns Manville Corp.
Structodek High Density Fiberboard Roof Insulation	Wood fiber board	Blue Ridge Fiberboard, Inc.
SECUROCK Gypsum-Fiber Roof Board MIAMI-DADE COUNTY APPROVED	Fiber reinforced coverboard	United States Gypsum Corporation NOA No.: 24-0617.06 Expiration Date: 07/13/29 Approval Date: 07/18/24 Page 3 of 33



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	Product Description	<u>Manufacturer</u> (With Current NOA)
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax Operating, LLC
ISO 95 + GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC.
EnergyGuard Perlite Roof Insulation	Expanded mineral fiber	GAF
DEXcell Glass Mat Roof Board	Gypsum board	National Gypsum Co.
DEXcell FA Glass Mat Roof Board	Gypsum board	National Gypsum Co.
DEXcell Cement Roof Board	Cementitious insulation board	National Gypsum Co.

APPROVED FASTENERS:

TABLE 3

<u>Fastener</u> <u>Number</u>	<u>Product</u> <u>Name</u>	Product Description	<u>Dimensions</u>	Manufacturer (With Current
1.	Dekfast DF-#12-PH3	Insulation fastener for wood, steel and concrete decks	Various	NOA) SFS Group USA, Inc.
2.	Dekfast DF-#14-PH3	Insulation fastener for wood, steel and concrete decks	Various	SFS Group USA, Inc.
3.	Dekfast DF-#15-PH3	Insulation fastener for wood, steel and concrete decks	Various	SFS Group USA, Inc.
4.	Dekfast PLT-H-2-7/8	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Group USA, Inc.
5.	#12 Standard Roofgrip	Insulation fastener for wood, steel and concrete decks.	Various	OMG, Inc.
6.	#14 Roofgrip	Insulation fastener for wood, steel and concrete decks.	Various	OMG, Inc.
7.	3 in. Round Metal Plate	Galvalume stress plate.	3" round	OMG, Inc.
8.	Flat Bottom Metal Plate	Galvalume stress plate.	3" square	OMG, Inc.
9.	isofast PLT-R-2-3/8-BL	Galvalume AZ55 steel plate	2.37" round	SFS Group USA, Inc.
10.	Mule-Hide HDP Fastener	Insulation fastener for wood, steel and concrete decks		Mule-Hide Products Co, Inc.



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APPROVED FASTENERS:

TABLE 3

<u>Fastener</u> <u>Number</u>	<u>Product</u> <u>Name</u>	Product Description	<u>Dimensions</u>	Manufacturer (With Current NOA)
11.	Trufast 3" Recessed Metal Plate	3" round galvalume AZ55 steel plate	3" round	Altenloh, Brinck & Co. U.S. Inc.
12.	Trufast 3" TL Insulation Plate	3" round galvalume AZ55 steel plate	3" round	Altenloh, Brinck & Co. U.S. Inc.
13.	Mule-Hide 3" Insulation Plate	Round galvalume AZ50 steel plate	3" round	Mule-Hide Products Co, Inc.
14.	Mule-Hide EHD Fastener	Insulation fastener for wood, steel and concrete decks		Mule-Hide Products Co, Inc.
15.	isofast PLT-S-2-3/4x2-3/4	Galvalume 19 ga. steel insulation and membrane attachment stress plate	$2^{3}/_{4}$ " x $2^{3}/_{4}$ "	SFS Group USA, Inc.
16.	Trufast 2.4" Scoop Seam Plate	Galvalume steel stress plate.	2.4" round	Altenloh, Brinck & Co. U.S. Inc.
17.	Trufast 2.4 Barbed Metal Seam Plate	Galvalume steel stress plate.	2.4" round	Altenloh, Brinck & Co. U.S. Inc.
18.	Trufast 2-3/4" Barbed Metal Seam Plate	Galvalume steel stress plate.	2.75" round	Altenloh, Brinck & Co. U.S. Inc.
19.	Dekfast PLT-R-2-3/8-6B	Galvalume steel stress plate.	2.37" round	SFS Group USA, Inc.
20.	Trufast #12 DP Fastener	Insulation fastener for wood and steel decks		Altenloh, Brinck & Co. U.S. Inc.
21.	AccuTrac Flat Bottom	Galvalume stress plate.	3" square	OMG, Inc.
22.	PG 100	A penetrating solution of solvent and a blend of selected asphalts used to promote adhesion.	1, 3, 5, 50, 55 gal, tube or 17 oz. spray can	Polyglass USA, Inc.
23.	PG 350	A fibered rubberized adhesive designed for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
24.	POLYPLUS 35	A fibered rubberized adhesive designed for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.



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APPROVED FASTENERS:

TABLE 3

Fastener Number	<u>Product</u> <u>Name</u>	Product Description	<u>Dimensions</u>	Manufacturer (With Current NOA)
25.	PG 450	A thick, fibered, rubberized flashing cement.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
26.	PG 500	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
27.	POLYPLUS 45	A thick, fibered, rubberized flashing cement.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
28.	POLYPLUS 50	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
29.	PG 400	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
30.	PG 425	A thick, fibered, rubberized flashing cement for use in dry or damp conditions.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
31.	WB-3000	A low-VOC, water-based acrylic primer to enhance adhesion of self-adhered membranes.	5 gallon pail	Polyglass USA, Inc.



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APPROVED SURFACING:

TABLE 4

Chosen components must be applied according to manufacturer's application instructions. Number **Product Application Specification** Manufacturer Name **Description** Rate 1. To be installed in a flood coat of approved 400 lbs/sq Generic Gravel N/A asphalt at 60 lbs/sq 2. To be installed in a flood coat of approved 300 lbs/sq Slag N/A Generic asphalt at 60 lbs/sq 3. KM Acryl 15 A premium white or tinted elastomeric 1-1½ gal/sq ASTM D6083 Polyglass USA, acrylic based roof coating (water-based). Inc. A polyester fabric may be used for reinforcement with this coating. 4. KM Acryl 15 QS A premium white or tinted quick setting, 1-1½ gal/sq ASTM D6083 Polyglass USA, elastomeric acrylic based roof coating Inc. (water-based). A polyester fabric may be used for reinforcement with this coating. 5. KM Acryl 25 A premium white or tinted elastomeric 1-1½ gal/sq ASTM D6083 Polyglass USA, acrylic based roof coating (water-based). Inc. A polyester fabric may be used for reinforcement with this coating. 6. A premium white or tinted quick setting, 1-1½ gal/sq ASTM D6083 Polyglass USA, KM Acryl 25 QS elastomeric acrylic based roof coating Inc. (water-based). A polyester fabric may be used for reinforcement with this coating. 7. KM-PS #220 A single component, white or tinted, 1.25 gal/sq ASTM D6694 Polyglass USA, solvent, moisture cure silicone coating. Inc. 8. KM-PS #250 A premium grade high solids, white or 1.25 gal/sq ASTM D6694 Polyglass USA, tinted, single component, moisture cure, Inc. fluid applied silicone coating 9. PG 300 An asphalt cutback fibered roof coating. 1½-2 gal/sq ASTM D4479 Polyglass USA, May be applied by brush or spray Inc. equipment to rejuvenate aged BUR 10. PG 600 Non-fibered aluminum roof coating. ½-1 gal/sq ASTM D2824 Polyglass USA, Type I Inc. 11. PG 650 Fibered aluminum roof coating. 1½-2 gal/sq ASTM D2824 Polyglass USA, Type III Inc.



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APPROVED SURFACING:

16.

17.

18.

PolyBrite 70 QS

POLYPLUS 60

POLYPLUS 65

TABLE 4 Chosen components must be applied according to manufacturer's application instructions.

Application Specification Number **Product Product** Manufacturer Name **Description** Rate 12. PG 700 A premium white or tinted elastomeric 1-1½ gal/sq ASTM D6083 Polyglass USA, acrylic based roof coating (water-based). Inc. A polyester fabric may be used for reinforcement with this coating. 13. **PG 700 QS** A premium white or tinted quick setting, 1-1½ gal/sq ASTM D6083 Polyglass USA, elastomeric acrylic based roof coating Inc. (water-based). A polyester fabric may be used for reinforcement with this coating. 14. PG 800 An asphalt based, non-fibered clay 3 gal/sq in ASTM D1227 Polyglass USA, emulsion two coats Inc. 15. PolyBrite 70 A premium white or tinted elastomeric 1-1½ gal/sq ASTM D6083 Polyglass USA, acrylic based roof coating (water-based). Inc.

> A polyester fabric may be used for reinforcement with this coating.

A premium white or tinted quick setting,

(water-based). A polyester fabric may be used for reinforcement with this coating.

elastomeric acrylic based roof coating

Non-fibered aluminum roof coating.

Fibered aluminum roof coating.



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1-1½ gal/sq ASTM D6083 Polyglass USA,

Type I

1½-2 gal/sq ASTM D2824 Polyglass USA, Type III

ASTM D2824 Polyglass USA,

½-1 gal/sq

Inc.

Inc.

Inc.

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EVIDENCE SUBMITTED:

Test Agency	Test Name/Report	Report No.	<u>Date</u>
Factory Mutual Research	4470	2W7A7.AM	08/04/94
Corporation	447 0	3000857	01/12/00
•	4470	3004091	01/12/00
	4470	3001334	02/15/00
	4450	3023458	07/18/06
	4470	RR202591	10/22/15
	4470	3057029	02/02/17
	, 🗸	200,029	02/02/17
Underwriters Laboratory	TAS 114	00NK20869	06/08/00
•	UL 790	R14571	06/30/15
Trintiy ERD	TAS 114	11776.06.02	01/16/03
	TAS 117(B)-ASTM D6862	C8500SC.11.07	11/30/07
	ASTM D 6164 / D 6222	P10490.10.08-R1	10/03/08
	ASTM D6163 / ASTM D 4601	P33960.03.11	03/15/11
	FM 4470 & TAS 114	P33970.03.11	03/15/11
	ASTM D6164	P37590.03.13-3A	03/06/13
	TAS 114	11757.04.01-1-R1	04/30/13
	ASTM D6509	P37590.03.13-1-R1	06/26/13
	ASTM D6222	P37590.07.13-2	07/01/13
	ASTM D6222	P37590.03.13-5-R1	07/01/13
	ASTM D6163	P37590.03.13-2-R1	07/01/13
	ASTM D6164	P37590.07.13-1	07/02/13
	FM 4470 & TAS 114	SC6160.11.14	11/10/14
	ASTM D6162	SC5170.05.15	05/08/15
	ASTM D6162	SC5170.12.15-1	12/29/15
	ASTM D6163	PLYG-P45440SC.03.15-2-R1	12/29/15
	ASTM D6163	PLYG-P45440SC.03.15-1-R1	02/19/16
	FM 4474, UL1897, TAS 114	PLYG-SC8905.05.16-1	05/17/16
	FM 4474, UL1897, TAS 114	PLYG-SC8905.05.16-2	05/17/16
	TAS 114 & FM 4474	PLYG-SC10815.07.16-R1	09/23/16
	TAS 114 & FM 4474	PLYG-SC13235.01.17	01/17/17
	TAS 114	11757.12.00-1-R2	04/05/17
	TAS 114 & FM 4474	CTL13945.05.17-1	05/30/17
	TAS 114 & FM 4474	CTL13945.05.17-3	05/30/17
	TAS 114 & FM 4474	PLYG-SC13920.05.17-R1	07/17/17
PRI Asphalt Technologies	ASTM D6222	PUSA-062-02-01	12/04/07
	ASTM D6163	PUSA-064-02-02	02/27/08
	ASTM D6694	PUSA-134-02-01	05/16/14
	ASTM D6694	PUSA-135-02-01	05/16/14
	Physical Properties	PUSA-213-02-01	05/02/17
	Injulai Hopeines	1 0 0 1 1 2 1 0 0 2 0 1	05/02/1/



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DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	<u>Identifier</u>	<u>Assemblies</u>	Date
Factory Mutual Research Corp.	RoofNav Listings	C(2), D(4), D(5)	08/17/16
Robert Nieminen, P.E.	Signed/Sealed Calculations	B, C(3), C(4), D(1), D(2), D(3), D(6), D(7)	08/30/16
Robert Nieminen, P.E.	Signed/Sealed Calculations	C(1), C(5), C(6)	10/20/17



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APPROVED ASSEMBLIES:

Membrane Type: SBS/APP

Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 33 steel deck attached 6" o.c. with Tek/5 screws to steel supports

spaced max. 5 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 20" o.c.

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

Analysis Table.

System Type B(1): Base layer of insulation mechanically fastened through loose laid optional thermal barrier to

roof deck, top layer adhered with approved asphalt. Membranes subsequently adhered to

insulation.

All General and System limitations apply.

Thermal Barrier: Min. ¼" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell (Optional) Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell

Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

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

ACFoam-II, Poly ISO 2, ACFoam-III, H-Shield, Mule-Hide Poly ISO 1, ENRGY 3, ISO 95+ GL, H-Shield CG,

Multi-Max FA-3

Minimum 1.5" thick 2 with 4; 11 with 14 1:1.33 ft²

Note: Base layer shall be mechanically attached with fasteners and density described. 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 (Coverboard)	<u>Insulation Fasteners</u> (<u>Table 3)</u>	<u>Fastener</u> <u>Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A
FescoBoard Minimum ³ / ₄ " thick	N/A	N/A

Note: Apply top layer of insulation in a full mopping of any approved mopping 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: (Optional if using ply sheet in hot asphalt)

One ply of Nail Base or Nail Base P, adhered in a full mopping of approved asphalt applied

within the EVT range and at a rate of 20-40 lbs./sq.



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One or more plies of Nail Base, Nail Base P, APP Torch Base/Cap, APP Torch S Premier or

APP Torch Base Premier* torch applied.

Or

One or more plies of Nail Base, Nail Base P or one or more plies of Type IV or VI ply sheet, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of

20-40 lbs./sq.

*Requires torch-applied ply or cap sheet.

Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap, torch applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(Optional) required fire classification.

Maximum Design

-90.0 psf; (See General Limitation #7.) **Pressure:**



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 40 steel deck attached 6" o.c. with 5/8" puddle welds to steel supports

spaced max. 6 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 24" o.c.

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

Analysis Table.

System Type C(1): Insulation layers are mechanically attached through loose laid optional thermal barrier to roof

deck. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

Thermal Barrier: Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell

(Optional) Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell

Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

11 with 14; 6 with 22

loose laid.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners	Fastener
	<u>(Table 3)</u>	Density/ft ²
Any approved polyisocyanurate listed in Table 2		
Minimum 1.0" thick	N/A	N/A
Top Insulation Layer (Coverboard)	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
SECUROCK Gypsum-Fiber Roof Board		
Minimum ¼" thick	2 with 4; 11 with 14; 6 with	1:1.78 ft ²
	22	
DensDeck Prime		

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.

Primer: Apply WB-3000 at 1 gal. per 300 sq. ft.

(Optional)

Minimum 1/4" thick

Base Sheet: One ply of SA Base Sheet or SA Base Sheet FR, self-adhered.

Ply Sheet: One or more plies of Nail Base, Nail Base P, APP Torch Base/Cap, APP Torch S Premier or

(**Optional**) APP Torch Base Premier torch applied.



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1:1.78 ft²

Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier or APP Torch G FR KoolCap, torch applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired

coating or required fire classification.

Maximum Design

Pressure: -45.0 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type WR, Grade 33 Steel Deck attached 6" o.c. with Traxx 5 screws to steel

supports spaced max. 6 ft. o.c. Deck side laps are attached with Traxx 1 screws spaced 24" o.c.

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

Analysis Table.

System Type C(2): Insulation layers are mechanically attached through loose laid optional thermal barrier to roof

deck. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

Thermal Barrier: Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell

(Optional) Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell

Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

Poly ISO 2, ACFoam-II, ACFoam-III, H-Shield, Mule-Hide Poly ISO 1, ISO 95 +GL, ENRGY 3

Minimum 2" thick N/A N/A

Top Insulation Layer (Coverboard)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

SECUROCK Gypsum-Fiber Roof Board

Minimum 1/2" thick 5 or 6 with 8; 1:1.78 ft²

1 or 2 with 4

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.

Base Sheet: (*Optional if using ply sheet in hot asphalt*)

One ply of Nail Base P, APP Torch Base/Cap or APP Torch S Premier, torch applied.

Or

One ply of Nail Base or Nail Base P, adhered in a full mopping of approved asphalt applied

within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional if using base sheet in hot asphalt)

One or more plies of Nail Base P, APP Torch Base/Cap or APP Torch S Premier, torch

applied.

Or

One or more plies of Nail Base or Nail Base P, adhered in a full mopping of approved asphalt

applied within the EVT range and at a rate of 20-40 lbs./sq.



NOA No.: 24-0617.06 Expiration Date: 07/13/29 Approval Date: 07/18/24 Page 15 of 33 Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap, torch

applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(Optional) required fire classification.

Maximum Design

Pressure: -60.0 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 33 steel deck attached 6" o.c. with Tek/5 screws to steel supports

spaced max. 5 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 20" o.c.

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

Analysis Table.

System Type C(3): Insulation layers are mechanically attached through loose laid optional thermal barrier to roof

deck. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

Thermal Barrier: Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell

(Optional) Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell

Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²

ACFoam-II, Poly ISO 2, ACFoam-III, H-Shield, Mule-Hide Poly ISO 1, ENRGY 3, ISO 95+ GL, H-Shield CG,

Multi-Max FA-3

Minimum 1.5" thick 2 with 16 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.

Primer: Apply WB-3000 at 1 gal. per 300 sq. ft.

(Optional)

Base Sheet: One ply of SA Base Sheet or SA Base Sheet FR, self-adhered to the insulation.

Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap, torch applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(Optional) required fire classification.

Maximum Design

Pressure: -82.5 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 33 steel deck attached 6" o.c. with Tek/5 screws to steel supports spaced

max. 5 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 20" o.c.

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

Analysis Table.

System Type C(4): All layers of insulation are mechanically attached to roof deck. Membrane is subsequently

adhered to insulation.

All General and System limitations apply.

Thermal Barrier: Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell

(Optional) Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard, loose laid.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²

ENRGY 3, H-Shield, Mule-Hide Poly ISO 1, Multi-Max FA-3, ACFoam-III, ACFoam-III, Poly ISO 2

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Coverboard)	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation		
Minimum 1/3" thick	2 with 4	1.1.33 ft ²

DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board

Minimum ½" thick 2 with 4 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.

Base Sheet: (Optional if using ply sheet in hot asphalt)

One ply of Nail Base or Nail Base P, adhered in a full mopping of approved asphalt applied

within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (*Optional if using base sheet in hot asphalt*)

One or more plies of Nail Base, Nail Base P, APP Torch Base/Cap, APP Torch S Premier or APP

Torch Base Premier* torch applied.

Or

One or more plies of Nail Base, Nail Base P, or one or more plies of Type IV or VI ply sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-

40 lbs./sq.

*Requires torch-applied ply or cap sheet.

Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier, APP Torch G KoolCap, or APP Torch G FR KoolCap, torch applied.



NOA No.: 24-0617.06 Expiration Date: 07/13/29 Approval Date: 07/18/24 Page 18 of 33 **Surfacing:** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(**Optional**) required fire classification.

Maximum Design

Pressure: -82.5 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 40 steel deck attached 6" o.c. with 5/8" puddle welds to steel supports

spaced max. 6 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 24" o.c.

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

Analysis Table.

System Type C(5): Insulation layers are mechanically attached through loose laid optional thermal barrier to roof

deck. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

Thermal Barrier: Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell

(Optional) Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell

Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Table 3

Any approved polyisocyanurate listed in Table 2

Minimum 1.0" thick N/A N/A

Top Insulation Layer (Coverboard)Insulation FastenersFastener(Table 3)Density/ft²

SECUROCK Gypsum-Fiber Roof Board

Minimum ¹/₄" thick 2 or 3 with 4; 6 or 7 with 8; 1:1 ft²

11 or 15 with 14

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.

Primer: Apply WB-3000 at 1 gal. per 300 sq. ft.

(Optional)

Base Sheet: One ply of SA Base Sheet or SA Base Sheet FR, self-adhered.

Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier, APP Torch G KoolCap, or APP Torch G FR KoolCap, torch

applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(Optional) required fire classification.

Maximum Design

Pressure: -90.0 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 40 steel deck attached 6" o.c. with 5/8" puddle welds to steel supports

spaced max. 6 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 24" o.c.

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

Analysis Table.

System Type C(6): Insulation layers are mechanically attached through loose laid optional thermal barrier to roof

deck. Membrane is subsequently adhered to insulation.

All General and System limitations apply.

Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell Thermal Barrier:

Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell (Optional)

Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

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

Any approved polyisocyanurate listed in Table 2

Minimum 1.0" thick N/A N/A

Top Insulation Layer (Coverboard) Insulation Fasteners Fastener Density/ft²

(Table 3)

DensDeck Prime Minimum 1/4" thick 1:1 ft² 2 or 3 with 4: 6 or 7 with 8:

11 or 15 with 14

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.

Primer: Apply WB-3000 at 1 gal. per 300 sq. ft.

(Optional)

Base Sheet: One ply of SA Base Sheet or SA Base Sheet FR, self-adhered.

Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap, torch applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

required fire classification. (Optional)

Maximum Design

Pressure: -97.5 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 33 steel deck attached 6" o.c. with Tek/5 screws to steel supports

spaced max. 5 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 20" o.c.

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

Analysis Table.

System Type D(1): Insulation layers are loosed laid with preliminary attachment, through loose laid optional

thermal barrier, to roof deck. Base sheet is subsequently mechanically fastened through

insulation to the roof deck.

All General and System limitations apply.

Thermal Barrier: (Optional)

Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell

Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

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
ENRGY 3, H-Shield, Mule-Hide Poly ISO 1, Multi-Max FA-3		
Minimum 1" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
FescoBoard		
Minimum ¾" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum ½" thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board		
Minimum ¹ / ₄ " thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum 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.

Base Sheet: One ply of Nail Base, Nail Base P, APP Torch Base Premier* or G2 Base Sheet, fastened to

the deck as described below:

*Requires torch-applied ply or cap sheet.

Fastening: Attach base sheet using Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 fasteners with Dekfast

PLT-H-2-7/8 plates or Trufast #14 HD or Mule-Hide EHD Fasteners with Mule-Hide 3" Insulation Plate 12" o.c. in a 4" lap and 12" o.c. in two equally spaced staggered rows in the

center of the sheet.



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Ply Sheet: (Optional) One or more plies of Nail Base, Nail Base P, APP Torch Base/Cap, APP Torch S Premier or

APP Torch Base Premier* torch applied.

Or

One or more plies of Nail Base, Nail Base P or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-

40 lbs./sq.

*Requires torch-applied cap sheet.

Membrane:

One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier, APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap, torch applied.

Surfacing: (Optional) Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

required fire classification.

Maximum Design

Pressure:

-52.5 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type WR, Grade 33 steel deck attached 6" o.c. with Tek/5 screws to steel supports

spaced max. 6 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 24" o.c.

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

Analysis Table.

System Type D(2): Insulation layers are loosed laid with preliminary attachment, through loose laid optional

thermal barrier, to roof deck. Base sheet is subsequently mechanically fastened through

insulation to the roof deck.

All General and System limitations apply.

Thermal Barrier: Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell

(Optional) Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell

Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

Poly ISO 2, ACFoam-II, ACFoam-III, H-Shield, Mule-Hide Poly ISO 1

Minimum 1" thick N/A N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum 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.

Base Sheet: One ply of Nail Base fastened to the deck as described below:

Fastening: Attach base sheet using Trufast #12 DP, Mule-Hide HDP Fastener or Mule-Hide EHD

Fasteners with Mule-Hide 3" Insulation Plate 12" o.c. in a 4" lap and 12" o.c. in two equally

spaced staggered rows in the center of the sheet.

Ply Sheet: One or more plies of Nail Base or Nail Base P, adhered to deck with PG 350 adhesive at a rate

(Optional) of 2.0 gal/sq.

Or

One or more plies of Nail Base, Nail Base P, APP Torch Base/Cap, APP Torch S Premier or

APP Torch Base Premier* torch applied.

*Requires torch-applied cap sheet.



NOA No.: 24-0617.06 Expiration Date: 07/13/29 Approval Date: 07/18/24 Page 24 of 33 Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier Premier, APP Torch G

Premier, APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap,

torch applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(Optional) required fire classification.

Maximum Design

Pressure: -67.5 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade C steel deck attached 6" o.c. with Tek/5 screws to steel supports

spaced max. 5 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 20" o.c

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

Analysis Table.

System Type D(3): Insulation layers are loosed laid with preliminary attachment, through loose laid optional

thermal barrier, to roof deck. Base sheet is subsequently mechanically fastened through

insulation to the roof deck.

All General and System limitations apply.

Thermal Barrier: (Optional)

Min. ¹/₄" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. ⁷/₁₆" thick DEXcell Cement Roof Board or min. ³/₄" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

Base Insulation LayerInsulation Fasteners
(Table 3)Fastener
Density/ft²Miami-Dade Approved Lightweight ConcreteN/AN/AMinimum 2.0" thick, Minimum 300 psi.N/AN/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented.

Base Sheet: One ply of APP Torch Base/Cap, APP Torch Base Premier* or G2 Base fastened to the deck as

described below: *Requires torch-applied ply or cap sheet.

Fastening: Attach base sheet using Dekfast DF-#14-PH3 or Dekfast DF-#15-PH3 fasteners with Dekfast

PLT-H-2-7/8 plates Trufast #14 HD Stainless Steel Bi-Metal Fasteners or Trufast #15 EHD Fasteners with Trufast 3" Metal Insulation Plate 12" o.c. in a 4" lap and 12" o.c. in two equally

spaced staggered rows in the center of the sheet.

Membrane: One ply of APP Torch Base/Cap, APP Torch G FR Premier or APP Torch G FR KoolCap torch

applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(**Optional**) required fire classification.

Maximum Design

Pressure: -82.5 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gauge, Type WR, Grade 80 steel deck fastened to steel support at a maximum

span of 6 feet o.c. Steel deck shall be fastened with minimum ITW Buildex Traxx/5 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex Traxx/1 at a

maximum spacing of 24 inches o.c.

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

Analysis Table.

System Type D(4): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently

mechanically fastened through insulation to the roof deck.

All General and System limitations apply.

Thermal Barrier: Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell

(Optional) Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell

Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
Poly ISO 2, ACFoam-II, ACFoam-III, H-Shield, Mule-Hide Poly I	(SO 1,	
Minimum 1.5" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum 1" thick	N/A	N/A
FescoBoard		
Minimum ³ / ₄ " thick	N/A	N/A

Note: Top layer shall have preliminary attachment, prior to 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 APP Torch Base/Cap or APP Torch S Premier mechanically fastened to the deck as

described below: *Requires torch-applied ply or cap sheet.

Fastening: Attach base sheet using Dekfast DF-#14- PH3 with Dekfast PLT-H-2-7/8 plates spaced 12" o.c.

in a minimum 6" wide side lap. The side lap is either torch or hot air welded closed.



NOA No.: 24-0617.06 Expiration Date: 07/13/29 Approval Date: 07/18/24 Page 27 of 33 Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap torch applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(Optional) required fire classification.

Maximum Design

Pressure: -82.5 psf; (See General Limitation #7.)



NOA No.: 24-0617.06 Expiration Date: 07/13/29 Approval Date: 07/18/24 Page 28 of 33

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gauge, Type WR, Grade 80 steel deck fastened to steel support at a maximum

span of 6 feet o.c. Steel deck shall be fastened with minimum ITW Buildex Traxx/5 at a maximum spacing of 6 inches o.c. Side laps shall be fastened with ITW Buildex Traxx/1 at a

maximum spacing of 24 inches o.c.

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

Analysis Table.

System Type D(5): All insulation is loosed laid with preliminary attachment to deck. Base sheet is subsequently

mechanically fastened through insulation to the roof deck.

All General and System limitations apply.

Thermal Barrier: Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell

(Optional) Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell

Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²

Miami-Dade Approved Lightweight Concrete Minimum 2.0" thick, Minimum 300 psi.

Minimum 2.0" thick, Minimum 300 psi. N/A N/A

Note: Load capacity of the structural substrate must be verified for the additional load of the LWC. The LWC must be properly vented.

Base Sheet: One ply of APP Torch Base/Cap or APP Torch S Premier mechanically fastened to the deck as

described below:

Fastening: Attach base sheet using Dekfast DF-#14- PH3 with Dekfast PLT-H-2-7/8 plates spaced 12" o.c.

in a minimum 6" wide side lap. The side lap is either torch or hot air welded closed.

Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap torch applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(Optional) required fire classification.

Maximum Design

Pressure: -82.5 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 40 steel deck attached 6" o.c. with Tek/5 screws to steel supports

spaced max. 5 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 20" o.c.

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

Analysis Table.

System Type D(6): Insulation layers are loosed laid with preliminary attachment, through loose laid optional

thermal barrier, to roof deck. Base sheet is subsequently mechanically fastened through

insulation to the roof deck.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
ENRGY 3, H-Shield, Multi-Max FA-3 Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	<u>Fastener</u> <u>Density/ft²</u>
FescoBoard Minimum ³ / ₄ " thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation Minimum $^{1}/_{2}$ " thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	d N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum 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.

Base Sheet: One ply of APP Torch S Premier fastened to the deck as described below:

Fastening: Attach base sheet using Dekfast DF-#15-PH3 and isofast PLT-R-2- 3/8-BL plates spaced 12"

o.c. in a 5" heat welded side lap.

Ply Sheet: One or more plies of APP Torch Base/Cap or APP Torch S Premier torch applied.

(Optional)

Membrane: One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier,

APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap torch applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(Optional) required fire classification.

Maximum Design

Pressure: -82.5 psf; (See General Limitation #7.)



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Deck Type 2I: Steel, Insulated

Deck Description: 18-22 ga. Type B, Grade 33 steel deck attached 6" o.c. with Tek/5 screws to steel supports

spaced max. 5 ft. o.c. Deck side laps are attached with Tek/1 screws spaced 20" o.c.

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

Analysis Table.

System Type D(7): Insulation layers are loosed laid with preliminary attachment, through loose laid optional

thermal barrier, to roof deck. Base sheet is subsequently mechanically fastened through

insulation to the roof deck.

All General and System limitations apply.

Thermal Barrier: (Optional)

Min. 1/4" thick DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board, DEXcell Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell

Glass FA Mat Roof Board, DEXcell Glass Mat Roof Board or min. 7/16" thick DEXcell Cement Roof Board or min. 3/4" thick EnergyGuard Perlite Roof Insulation or FescoBoard,

loose laid.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
ENRGY 3, H-Shield, Multi-Max FA-3		
Minimum 1" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	<u>Fastener</u> Density/ft²
FescoBoard	(Tuble o)	Deligity
Minimum ³ / ₄ " thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation		
Minimum ¹ / ₂ " thick	N/A	N/A
DensDeck, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Boar	d	
Minimum ¹ / ₄ " thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum 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.

Base Sheet: One ply of APP Torch S Premier fastened to the deck as described below:

Fastening: Attach base sheet using Dekfast DF-#12-PH3 with Dekfast PLT-H-2-7/8 plates or OMG #14

Roofgrip with Flat Bottom Metal Plates spaced 12" o.c. in a 4" lap and 18" o.c. in two equally

spaced staggered rows in the center of the sheet.



NOA No.: 24-0617.06 Expiration Date: 07/13/29 Approval Date: 07/18/24 Page 31 of 33 **Ply Sheet:** One or more plies of Nail Base, Nail Base P, APP Torch Base/Cap or APP Torch S Premier (Optional)

torch applied.

Or

One or more plies of Nail Base, Nail Base P, or one or more plies of Type IV or VI ply sheet adhered in full mopping of approved asphalt applied within the EVT range and at a rate of 20-

40 lbs./sq.

One ply of APP Torch Base/Cap, APP Torch G, APP Torch S Premier, APP Torch G Premier, **Membrane:**

APP Torch G FR Premier, APP Torch G KoolCap or APP Torch G FR KoolCap torch applied.

Surfacing: Install one of the approved surfacing products listed in Table 4 to obtain desired coating or

(Optional) required fire classification.

Maximum Design

Pressure: -112.5 psf; (See General Limitation #7.)



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STEEL DECK SYSTEM LIMITATIONS:

- 1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.
- 2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gauge attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

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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