



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

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

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 Self-Adhered Roof System over Recover Deck

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 revises NOA #17-0824.10 and consists of pages 1 through 16.
The submitted documentation was reviewed by Hamley Pacheco, P.E.



NOA No.: 19-0508.03
Expiration Date: 11/22/22
Approval Date: 08/08/19
Page 1 of 16

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Materials	SBS/APP/TPO
Deck Type:	Recover
Maximum Design Pressure:	See Specific Deck Type

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Nail Base	65' 8" x 3' 3-3/8"	ASTM D 6163, Type I	SBS modified asphalt coated fiberglass reinforced base sheet.
SA Base Sheet	66' 8" x 3' 3-3/8"	ASTM D 6163, Type I	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, Type I	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' 8" x 3' 3-3/8"	ASTM D 6164, Type I	SBS modified asphalt coated polyester reinforced base sheet.
SA-SBS Cap Sheet	32' 10" x 3' 3-3/8"	ASTM D 6164, Type I	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-SBS Cap Sheet FR	32' 10" x 3' 3-3/8"	ASTM D 6164, Type I	Self-adhered, fire-rated, polyester reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-SBS KoolCap®	32' 10" x 3' 3-3/8"	ASTM D 6164, Type I	Self-adhered, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-SBS KoolCap® FR	32' 10" x 3' 3-3/8"	ASTM D 6164, Type I	Self-adhered, fire-rated, fiberglass reinforced, SBS modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-APP Cap Sheet	32' 10" x 3' 3-3/8"	ASTM D 6222, Type I	Self-adhered, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.
SA-APP Cap Sheet FR	32' 10" x 3' 3-3/8"	ASTM D 6222, Type I	Self-adhered, fire-rated, polyester reinforced, APP modified bitumen membrane with a self-adhering back face and a granule top surface.



APPROVED INSULATIONS:

TABLE 2

<u>Product Name</u>	<u>Product Description</u>	<u>Manufacturer (With Current NOA)</u>
Mule-Hide Poly ISO 1	Polyisocyanurate foam insulation	Polyglass USA, Inc.
Poly ISO 2	Polyisocyanurate foam insulation	Polyglass USA, Inc.
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corp.
ACFoam-III	Polyisocyanurate foam insulation	Atlas Roofing Corp.
ENRGY-3	Polyisocyanurate foam insulation	Johns Manville Corp.
Multi-Max FA-3	Polyisocyanurate foam insulation	Rmax Operating LLC.
H-Shield	Polyisocyanurate insulation	Hunter Panels, LLC.
H-Shield CG	Polyisocyanurate insulation	Hunter Panels, LLC.
DensDeck	Gypsum insulation board	Georgia Pacific Gypsum LLC.
DensDeck Prime	Gypsum insulation board	Georgia Pacific Gypsum LLC.
Insulfoam EPS	Expanded polystyrene board	Insulfoam, a Div. of Carlisle Const. Materials
DEXcell FA Glass Mat Rood Board	Gypsum board	National Gypsum Company

APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Dekfast DF-#14-PH3	Insulation fastener for wood, steel and concrete decks		SFS Group USA, Inc.
2.	Dekfast DF-#15-PH3	Insulation fastener for wood, steel and concrete decks		SFS Group USA, Inc.
3.	Dekfast PLT-H-2-7/8	Galvalume hex stress plate.	2 7/8" x 3 1/4"	SFS Group USA, Inc.
4.	Mule-Hide HDP Fastener	Insulation fastener for wood, steel and concrete decks	Various	Mule-Hide Products Co., Inc.
5.	Mule-Hide EHD Fastener	Carbon steel fastener for use in concrete, steel and wood decks	Various	Mule-Hide Products Co., Inc.
6.	Mule-Hide 3" Metal Insulation Plate	Round Galvalume AZ50 steel plate	3 round	Mule-Hide Products Co., Inc.
7.	#14 Roofgrip	Insulation fastener for wood, steel and concrete decks.	Various	OMG, Inc.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
8.	#15 Roofgrip	Insulation fastener for wood, steel and concrete decks.	Various	OMG, Inc.
9.	AccuTrac Flat Bottom	Galvalume stress plate.	3” square	OMG, Inc.
10.	Trufast FM-90 Base Sheet Fasteners	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	Altenloh, Brinck & Co. U.S., Inc.
11.	Trufast Twin Loc-Nail Assembled Fastener	Pre-assembled Galvalume Base Sheet Fastener and stress plate.	Various	Altenloh, Brinck & Co. U.S., Inc.
12.	OlyBond 500	A two component, low rise, polyurethane foam adhesive		OMG, Inc.
13.	OlyBond 500 Green	A two component, low rise, polyurethane foam adhesive		OMG, Inc.
14.	Millennium One-Step Foamable Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company
15.	Millennium One Step Green Foamable Insulation Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company
16.	Millennium PG-1 Pump Grade Adhesive	A two component, low rise, polyurethane foam adhesive		H.B. Fuller Company
17.	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.
18.	PG 350	A fibered rubberized adhesive designed for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
19.	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.
20.	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.
21.	PG 450	A thick, fibered, rubberized flashing cement.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
22.	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.



APPROVED FASTENERS:

TABLE 3

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
23.	POLYPLUS 35	A fibered rubberized adhesive designed for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
24.	POLYPLUS 45	A thick, fibered, rubberized flashing cement.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
25.	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.
26.	XtraFlex 10	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.
27.	XtraFlex 35	A fibered rubberized adhesive designed for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
28.	XtraFlex 50 Premium Modified Wet/Dry Cement	A thick, fibered, rubberized flashing cement for use with modified bitumen membranes.	1, 3, 5, 50, 55 gal. or tube	Polyglass USA, Inc.
29.	WB-3000	A low-VOC, water-based acrylic primer to enhance adhesion of self-adhered membranes.	5 gallon pail	Polyglass USA, Inc.

APPROVED SURFACING:

TABLE 4

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

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
1.	Gravel	To be installed in a flood coat of approved asphalt at 60 lbs/sq	400 lbs/sq	N/A	Generic
2.	Slag	To be installed in a flood coat of approved asphalt at 60 lbs/sq	300 lbs/sq	N/A	Generic



APPROVED SURFACING:

TABLE 4

Chosen components must be applied according to manufacturer’s application instructions.

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
3.	KM Acryl 15	A premium white or tinted elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
4.	KM Acryl 15 QS	A premium white or tinted quick setting, elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
5.	KM Acryl 25	A premium white or tinted elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
6.	KM Acryl 25 QS	A premium white or tinted quick setting, elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
7.	KM-PS #220	A single component, solvent, white or tinted, silicone coating.	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
8.	KM-PS #250	A premium grade high solids, white or tinted, single component, moisture cure, fluid applied silicone coating	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
9.	PG 300	An asphalt cutback fibered roof coating. May be applied by brush or spray equipment to rejuvenate aged BUR	1½-2 gal/sq	ASTM D4479	Polyglass USA, Inc.
10.	PG 600	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.



APPROVED SURFACING:

TABLE 4

Chosen components must be applied according to manufacturer’s application instructions.

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
11.	PG 650	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.
12.	PG 700	A premium white or tinted elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
13.	PG 700 QS	A premium white or tinted quick setting, elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
14.	PG 800	An asphalt based, non-fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
15.	PolyBrite 70	A premium white or tinted elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
16.	PolyBrite 70 QS	A premium white or tinted quick setting, elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
17.	PolyBrite 90	A premium grade high solids, white or tinted, single component, moisture cure, fluid applied silicone coating	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
18.	PolyBrite 95	A single component, white or tinted, solvent, moisture cure silicone coating.	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
19.	POLYPLUS 60	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.



APPROVED SURFACING:

TABLE 4

Chosen components must be applied according to manufacturer’s application instructions.

<u>Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Application Rate</u>	<u>Specification</u>	<u>Manufacturer</u>
20.	POLYPLUS 65	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.
21.	XtraFlex 60 Aluminum Roof Coating	Non-fibered aluminum roof coating.	½-1 gal/sq	ASTM D2824 Type I	Polyglass USA, Inc.
22.	XtraFlex 65 Aluminum Roof Coating Fibered	Fibered aluminum roof coating.	1½-2 gal/sq	ASTM D2824 Type III	Polyglass USA, Inc.
23.	XtraFlex 70 Premium Acrylic FR Roof Coating	A premium white or tinted elastomeric acrylic based roof coating (water-based). A polyester fabric may be used for reinforcement with this coating.	1-1½ gal/sq	ASTM D6083	Polyglass USA, Inc.
24.	XtraFlex 80 Emulsion Roof Coating	An asphalt based, non-fibered clay emulsion	3 gal/sq in two coats	ASTM D1227	Polyglass USA, Inc.
25.	XtraFlex 30 Bituminous Roof Coating Fibered	An asphalt cutback fibered roof coating. May be applied by brush or spray equipment to rejuvenate aged BUR	1½-2 gal/sq	ASTM D4479	Polyglass USA, Inc.
26.	XtraFlex SRC 8000	A single component, white or tinted, solvent, moisture cure silicone coating.	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.
27.	XtraFlex SRC 9600	A premium grade high solids, white or tinted, single component, moisture cure, fluid applied silicone coating	1.25 gal/sq	ASTM D6694	Polyglass USA, Inc.



EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Name/Report</u>	<u>Report No.</u>	<u>Date</u>
Factory Mutual Research Corporation	4470	2W7A7.AM	08.04.94
	4450	2D5A9.AM	06.22.99
	4470	3000857	01.12.00
	4470	3004091	01.12.00
	4470	3001334	02.15.00
	4470	3012321	07.29.02
	4470	3014692	08.05.03
	4450	3014751	08.27.03
	4450	3019317	06.30.04
	4470	3024311	11/01/06
	4470	3031350	09/27/07
	4470	3036182	07/31/09
	4470	RR202591	10.22.15
	Trinity ERD	TAS 114	11752.09.99-1
TAS 117(B)-ASTM D903		020841.06.04	06.02.04
TAS 114		02762.03.05	03.30.05
TAS 114		02764.09.05	09.09.05
TAS 114		P1738.02.07	02.05.07
TAS 117(B)-ASTM D6862		C8500SC.11.07	11.30.07
ASTM D6164 / ASTM D6222		P10490.10.08-R1	10.03.08
ASTM D6222		P7400.03.08-R2	10.09.08
TAS 114(D) – ASTM D1876		P10070.10.08	10.09.08
ASTM D6222		P10490.10.08-2	10.30.08
TAS 114 (H)		P13760.09.09	09.10.09
FM 4470 & TAS 114		P33970.03.11	03.15.11
ASTM D6163 / ASTM D 4601		P33960.03.11	03.15.11
ASTM D6163		P37590.03.13-2-R1	02.05.13
ASTM D6164		P37590.03.13-3A	03.06.13
ASTM D6164		P37590.07.13-1	07.02.13
ASTM D4601 / TAS 117		P45940.09.13	09.04.13
ASTM D6222		P37590.09.13	09.12.13
ASTM D4601		P44370.10.13	10.04.13
ASTM D4601		P45970.05.14	05.12.14
TAS 114		P1739.01.07-R1	07.19.16
TAS 114		P1734.07.06-R2	08.24.16
FM 4470 & ASTM D1876		PLYG-SC9455.03.17	03.08.17
TAS 114 & FM 4474		CTL13945.05.17-3	05.30.17
TAS 117	PLYG-SC15760.10.17	10.06.17	
PRI Construction Materials Technologies	ASTM D6222	PUSA-061-02-02	01.28.08
	ASTM D6163	PUSA-064-02-02	02.27.08
	ASTM D6222	PUSA-062-02-02	12.04.08
	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



EVIDENCE SUBMITTED:

Test Agency

Test Name/Report

Report No.

Date

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency

Identifier

Assemblies

Date

Robert Nieminen, P.E.

Signed/Sealed Calculations

E(1), E(2)

07/19/16

Robert Nieminen, P.E.

Signed/Sealed Calculations

C

10/11/17



APPROVED ASSEMBLIES:

- Membrane Type:** SBS/APP
- Deck Type 7I:** Recover over existing asphalt BUR
- Deck Description:** Min 2500 psi. structural concrete or plank.
- System Type A(1):** One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, Poly ISO 2, ENRGY-3, H-Shield, Mule-Hide Poly ISO 1 Minimum 1.5” thick	N/A	N/A
Insulfoam EPS Minimum 1” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A
<u>Top Insulation Layer (Optional)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck, DensDeck Prime (Required with ENRGY-3 and Insulfoam EPS) Minimum ¼” thick	N/A	N/A

Note: Apply insulation in OlyBond 500 or OlyBond 500 Green Adhesive in ¾” to 1” continuous beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Additional layers of insulation should be adhered in OlyBond 500 or OlyBond 500 Green Adhesive in ¾” to 1” continuous beads/ribbons spaced 12” o.c.

- Primer:** Apply WB-3000 at 1 gal. per 300 sq. ft. *(not for use with Insulfoam EPS)*
(Optional)
- Base Sheet:** One ply of SA Base Sheet or SA Base Sheet FR, self-adhered.
- Ply Sheet:** One or more plies of SA Base Sheet or SA Base Sheet FR, self-adhered.
(Optional)
- Membrane:** One ply of SA-SBS Cap Sheet, SA-SBS Cap Sheet FR, SA-APP Cap Sheet, SA-APP Cap Sheet FR, SA-SBS KoolCap® or SA-SBS KoolCap® FR, self-adhered.
- Surfacing:** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.
(Optional)
- Maximum Design Pressure:** -120.0 psf; (See General Limitation #9.)



Membrane Type: SBS/APP
Deck Type 7I: Recover over existing asphalt BUR
Deck Description: Min. 2500 psi. structural concrete
System Type A(2): One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, Poly ISO 2, ENRGY-3, H-Shield, Mule-Hide Poly ISO 1, Multi-Max FA-3 Minimum 1.5” thick	N/A	N/A
DensDeck, DensDeck Prime Minimum ¼” thick	N/A	N/A

Note: Apply insulation in Millennium One-Step Foamable Adhesive, Millennium One Step Green Foamable Insulation Adhesive or Millennium PG-1 Pump Grade Adhesive in ½” to ¾” continuous beads/ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Additional layers of insulation should be adhered in Millennium One-Step Foamable Adhesive, Millennium One Step Green Foamable Insulation Adhesive or Millennium PG-1 Pump Grade Adhesive in ½” to ¾” continuous beads/ribbons spaced 12” o.c.

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.

Ply Sheet: One or more plies of SA Base Sheet or SA Base Sheet FR, self-adhered.
(Optional)

Membrane: One ply of SA-SBS Cap Sheet, SA-SBS Cap Sheet FR, SA-APP Cap Sheet, SA-APP Cap Sheet FR, SA-SBS KoolCap® or SA-SBS KoolCap® FR, self-adhered.

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

Maximum Design Pressure: -157.5 psf; (See General Limitation #9.)



Membrane Type: SBS/APP

Deck Type 7I: Recover over existing asphalt BUR

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.

The deck should record a Minimum Characteristic Resistance Force (MCRF) of 160 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 Deck Stress Analysis Table.

System Type C: One or more layers of insulation adhered with approved adhesive. Membranes subsequently adhered to insulation layer.

All General and System limitations apply.

One or more layers of any of the following insulations:

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Any approved polyisocyanurate listed in Table 2 Minimum 1.0" thick	N/A	N/A
<u>Top Insulation Layer (Coverboard)</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick	1 or 2 with 3; 4 or 5 with 6; 7 or 8 with 9	1:1.78 ft ²
DensDeck Prime Minimum 1/4" thick	4 or 5 with 6; 7 or 8 with 9;	1:1.78 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.

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 SA-SBS Cap Sheet, SA-SBS Cap Sheet FR, SA-APP Cap Sheet, SA-APP Cap Sheet FR, SA-SBS KoolCap® or SA-SBS KoolCap® FR, self-adhered.

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

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



Membrane Type: SBS/APP
Deck Type 7: Recover LWIC, Non-Insulated
Deck Description: Min. 330 psi, Elastizell with Zell-Crete fibers with supplemental attachment with Roofgrip #21 screws and 3” Flat Bottom Plates at 1 per 8 ft² over steel deck; cast with min. 2” holey board embedded in 1/8” slurry. Followed by a min. 2” top coat of Elastizell Lightweight Concrete.
*The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 44 lbf when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105.
System Type E(1): Base sheet mechanically fastened. Membranes subsequently adhered.

All General and System limitations apply.

Structural Deck: Min. 18-22 ga., Type B, Grade 33 vented steel deck secured to structural supports spaced 5 ft. o.c. with Traxx/5 fasteners spaced 6” o.c. Deck side laps are secured 12” o.c. with Traxx/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

Base Sheet: One ply of Nail Base or Nail Base P, fastened as outlined below:

Fastening: Trufast Twin Loc-Nail Assembled Fastener at 6” o.c. in 4” lap and 6” o.c. in three equally spaced center rows.

Ply Sheet: One or more plies of SA Base Sheet or SA Base Sheet FR, self-adhered.

Membrane: One ply of SA-SBS Cap Sheet, SA-SBS Cap Sheet FR, SA-APP Cap Sheet, SA-APP Cap Sheet FR, SA-SBS KoolCap® or SA-SBS KoolCap® FR, self-adhered.

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

**Maximum Design
Pressure:** -60 psf; (See General Limitation #7.)



Membrane Type: SBS/APP
Deck Type 7: Recover LWIC, Non-Insulated
Deck Description: Min. 380 psi, Celcore MF Lightweight Concrete; cast with min. 1" holey board embedded in 1/8" slurry. Followed by a min. 2" top coat of Celcore MF Lightweight Concrete. *The deck shall record a Minimum Characteristic Resistance Force (MCRF) of 59 lbf when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105.
System Type E(2): Base sheet mechanically fastened. Membranes subsequently adhered.

All General and System limitations apply.

Structural Deck: Min. 18-22 ga., Type B, Grade 33 vented steel deck secured to structural supports spaced 5 ft. o.c. with Traxx/5 fasteners spaced 6" o.c. Deck side laps are secured 12" o.c. with Traxx/1 fasteners.
This Tested Assembly has been analyzed for allowable deck stress. See Deck Stress Analysis Table.

Base Sheet: One ply of Nail Base or Nail Base P, fastened as outlined below:

Fastening: Trufast FM-90 Base Sheet Fasteners at 8" o.c. in 4" lap and 8" o.c. in three equally spaced center rows.

Ply Sheet: One or more plies of SA Base Sheet or SA Base Sheet FR, self-adhered.

Membrane: One ply of SA-SBS Cap Sheet, SA-SBS Cap Sheet FR, SA-APP Cap Sheet, SA-APP Cap Sheet FR, SA-SBS KoolCap® or SA-SBS KoolCap® FR, self-adhered.

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

**Maximum Design
Pressure:** -60 psf; (See General Limitation #7.)



RECOVER SYSTEM LIMITATIONS:

- 1 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



NOA No.: 19-0508.03
Expiration Date: 11/22/22
Approval Date: 08/08/19
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