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)

SRS Distribution, Inc.
7440 State Hwy 121
McKinney, TX 75070

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: TopShield Pro 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 consists of pages 1 through 14.
The submitted documentation was reviewed by Alex Tigera.

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

Product	Dimensions	Test Specification	Product Description
TopShield PRO APP-S	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.
TopShield PRO APP-G	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.
TopShield PRO SA Plybase	39 3/8" x 66'6"; Roll weight: 86 lbs. (2 squares)	ASTM D4601, Grade S, Type II | ASTM D1970	Self-adhering, fiberglass reinforced, SBS modified bitumen base/ply sheet.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam-II	Polyisocyanurate foam insulation	Atlas Roofing Corp.
ACFoam-III	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	Water resistant gypsum board	Georgia Pacific Gypsum LLC
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	Gypsum insulation	USG Corp.
FescoBoard	Expanded perlite and fiber insulation	Johns Manville Corp.
DuraBoard	Expanded mineral fiber insulation	Johns Manville Corp.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
Structodek High Density Fiberboard Roof Insulation	Wood Fiber Insulation board	Blue Ridge Fiberboard Inc.

APPROVED FASTENERS/ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Dekfast DF-#12-PH3	Insulation fastener for wood, steel and concrete decks	various	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 ¼"	SFS Group USA, Inc.
5.	Dekfast PLT-P-R-3	Polypropylene locking plate.	3" x 3 ¼"	SFS Group USA, 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.	3 in. Round Metal Plate	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.

APPROVED FASTENERS/ADHESIVES:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
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.
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.	Dekfast PLT-R-2-4B	Galvalume AZ55 steel plate	2" round	SFS Group USA, Inc.
25.	Trufast #12 DP Fastener	Coated, carbon steel fastener	various	Altenloh, Brinck & Co. U.S., Inc.
26.	Trufast #15 EHD Fastener	Coated, carbon steel fastener	various	Altenloh, Brinck & Co. U.S., Inc.
27.	Trufast #21 SHD Fastener	Coated, carbon steel fastener	various	Altenloh, Brinck & Co. U.S., Inc.
28.	Trufast 2" Barbed Metal Seam Plate	Galvalume steel stress plate	various	Altenloh, Brinck & Co. U.S., Inc.
29.	Trufast 2.4" Scoop Seam Plate	Galvalume steel stress plate	2.4" round	Altenloh, Brinck & Co. U.S., Inc.
30.	Trufast 2-3/4" Barbed Metal Seam Plate (EHD)	Galvalume steel stress plate	2.75" round	Altenloh, Brinck & Co. U.S., Inc.
31.	Millennium One Step Foamable Adhesive	Polyurethane two component high rise insulation adhesive	1.5 liters	H.B. Fuller Company
32.	Millennium One Step Green Foamable Adhesive	Polyurethane two component high rise insulation adhesive	1.5 liters	H.B. Fuller Company
33.	Millennium PG-1 Low Viscosity Insulation Adhesive	Polyurethane two component low rise insulation adhesive	1.5 liters	H.B. Fuller Company
34.	ICP Adhesive CR-20	Polyurethane two component low rise insulation adhesive	Two kits (A = 40lb and B = 35lb cylinders)	ICP Construction, Inc.
35.	OMG OlyBond 500 Adhesive	Spray polyurethane foam insulation adhesive	10 gal. bag-in-box set and 1.5 liters SpotShot cartridge	OMG, Inc.

APPROVED FASTENERS/ADHESIVES:

TABLE 3

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

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	Manufacturer	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.	Gardner Asphalt Corp.	APOC #212 Fibered Aluminum Roof Coating applied at an application rate of 1.5 gal/sq.
5.	Gardner Asphalt Corp.	APOC #400 Sunbrite applied at an application rate of 3 gal./sq.

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corp.	FM 4470	3Y8A1.AM	09/30/96
	FM 4470	0D3A3.AM	04/04/97
	FM 4470	1D7A4.AM	11/09/98
	FM 4470	2D0A0.AM	12/23/98
	FM 4450	2D5A9.AM	06/22/99
	FM 4470	3006025	12/28/01
	FM 4470	3012321	07/29/02
	FM 4470	3014502	04/04/03
	FM 4470	3014692	08/05/03
	FM 4450	3014751	08/27/03
	FM 4470	3024311	11/01/06
	FM 4470	3031350	09/27/07
	FM 4470	3031513	12/27/07
	FM 4470	3036182	07/31/09
	FM 4470	3037127	01/11/10
	FM 4470	3039046	06/15/10
	FM 4470	3039848	12/02/11
	FM 4470	3048520	09/19/13
Underwriters Laboratories, Inc.	UL 790	R11656	01/11/13
United States Testing Company	ASTM D 5147	97-457-2R	12/02/87
	ASTM D 5147	97457-4	06/03/88
Momentum Technologies, Inc.	ASTM D 4601	AX31G8D	09/05/08
	ASTM D 3909 / D 4897	AX31G8C	09/05/08
	ASTM D 6164	AX31G8F	06/05/09
	ASTM D 6222	AX31G8G	06/05/09
Trinity|ERD	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	3533.01.06-R1	10/26/07
	TAS 114	C8370.08.08	08/19/08
	TAS 117 (B) / ASTM D 6862	C8500SC.11.07-R1	08/07/09
	TAS 117 & TAS 114	C30560.03.10	03/18/10
	TAS 117 & TAS 114	C30560.06.10	06/10/10
	FM 4474 / TAS 114	C31420.08.10	09/21/10
	ASTM D 6164 / D 4798	C31410.01.11-2	01/10/11
	ASTM D 1876, TAS 114 (H), TAS 117 (B)	C42110.08.12	08/13/12
	FM 4474 / TAS 114	C39670.08.12	08/20/12
	ASTM D 4601	C40050.09.12-1	09/28/12
	ASTM D 1970	C40050.09.12-2	09/28/12
	ASTM D 5147 / D 4798	C31410.10.10-R1	11/01/12
	ASTM D 5147 / D 4798	C31410.01.11-1-R1	11/01/12
	ASTM D 4798	C31410.01.11-2A-R1	02/21/13

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
	ASTM D 4798	C31410.12.13	12/05/13
	ASTM D 6222	C40050.12.13-R1	12/31/13
	ASTM D 2178	C47250.03.14	03/26/14
	ASTM D 1876, TAS 114 (H), FM 4474	C45620.03.14	03/27/14
	FM 4474 / TAS 114 (J)	C46760.06.14	06/19/14
	ASTM D 1876, TAS 114 (H), FM 4474	C47320.03.14-R1	04/01/15
	ASTM D 1876	C35460.05.11-R1	05/20/15
	FM 4470 / TAS 114	C37830.07.12-R1	05/20/15
	ASTM D4601	CTR-SC8740.04.15-R2	04/21/15
	FM 4474 / TAS 114 (J)	CTR-SC8995.10.15	10/14/15
	FM 4474 (D) / UL1897 / TAS 114 (J)	CTR-SC10420.01.16	01/25/16
	FM 4474 / TAS 114 (J)	CTR-SC9175.09.16-2	09/06/16
	FM 4470 (K) / UL 1897 / TAS 114 (J)	CTR-SC11590.08.16-R1	09/06/16
	ASTM D 4601	CTR-SC11145.09.16-3C	09/19/16
	ASTM D 4601-04 (2012), Type II	CTR-SC11145.09.16-3A	09/19/16
	ASTM D 6163	CTR-SC11145.09.16-5A	09/19/16
	ASTM D 6222	CTR-SC11145.09.16-7A	09/19/16
	FM 4474 (B) / TAS 114 (D)	3522.07.04-R1	12/22/16
PRI Construction Materials Technologies LLC	ASTM D 6163	CTC-056-02-01	08/25/10
	ASTM D 6163	CTC-066-02-01	08/09/11
	ASTM D 6164 / D 4798	CTC-093-02-01	08/09/11
	ASTM D 4601	CTC-126-02-01	03/12/12
	ASTM D 2178	CTC-123-02-01	03/13/12
	ASTM D 4601	CTC-127-02-01	03/13/12
	ASTM D 6509	CTC-116-02-01	04/04/12
	ASTM D 6163	CTC-128-02-01	06/11/12
	ASTM D 6163	CTC-129-02-01	06/11/12
	ASTM D 6164	CTC-132-02-01	06/11/12
	ASTM D 6164	CTC-161-02-01	05/09/13
	ASTM D 6162	CTC-183-02-01	10/02/13
	ASTM D 6164	CTC-190-02-01	12/02/13
	ASTM D 1970	CTC-199-02-01	01/22/14
	ASTM D 6222	CTC 071-02-01	08/08/17
	ASTM D 6163	CTC-319-02-01	08/22/17

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	Identifier	Assemblies	Date
Robert Nieminen, P.E.	Signed/Sealed Calculations	B(1), C(1), C(3)	12/15/16

APPROVED ASSEMBLIES

Membrane Type: APP Modified

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 B(1): 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 Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
ACFoam-II, ACFoam-III, H-Shield Minimum 1.5" thick	**17 with 25**	**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 (Table 3)	Fastener Density/ft²
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer of insulation shall be adhered with Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive, Millennium PG-1 Low Viscosity 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 TopShield PRO APP-S torch adhered to the insulated substrate.

Ply Sheet: (Optional) One ply of TopShield PRO APP-S torch adhered to base sheet.

Membrane: One ply of TopShield PRO APP-G, torch adhered to base or ply sheet.

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

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

Membrane Type:	APP Modified
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 239 lbf. when tested with fasteners, listed in this assembly, installed through to the deck in accordance with TAS 105.
System Type B(2):	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 Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, H-Shield Minimum 1.5" thick	**17 with 25**	**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 Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**N/A**	**N/A**

Note: Top layer of insulation shall be adhered with Millennium One Step Foamable Adhesive, Millennium One Step Green Foamable Adhesive, Millennium PG-1 Low Viscosity 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 TopShield PRO APP-S torch adhered to the insulated substrate.
Ply Sheet: (Optional)	One ply of TopShield PRO APP-S torch adhered to base sheet.
Membrane:	One ply of TopShield PRO APP-G, torch adhered to base or ply sheet.
Surfacing:	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-90 psf (See General Limitation #7)

Membrane Type: APP Modified

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 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(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	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam-II, ACFoam-III, H-Shield 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 Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**12 with 14 or 18 with 20**	**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 TopShield PRO APP-S torch adhered to the insulated substrate.

Ply Sheet: (Optional) One ply of TopShield PRO APP-S torch adhered to base sheet.

Membrane: One ply of TopShield PRO APP-G, torch adhered to base or ply sheet.

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

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

Membrane Type:	APP Modified
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 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	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
ACFoam-II, ACFoam-III, H-Shield 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 Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft²**
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	**6 with 7 or 14 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.

Base Sheet:	One ply of TopShield PRO APP-S torch adhered to the insulated substrate.
Ply Sheet: (Optional)	One ply of TopShield PRO APP-S torch adhered to base sheet.
Membrane:	One ply of TopShield PRO APP-G, torch adhered to base or ply sheet.
Surfacing: (Optional)	Any of the approved surfacing/coating options listed in Table 4.
Maximum Design Pressure:	-67.5 psf (See General Limitation #7)

Membrane Type: APP Modified

Deck Type 7I: Recover, Insulated

Deck Description: 22 ga., Type F, Grade 80 steel deck is secured at 6 ft. o.c. spans with Tek/5 fasteners and ¾" 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(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 Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
ACFoam-II, ACFoam-III, H-Shield 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 Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" 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 TopShield PRO APP-S torch adhered to the insulated substrate.

Ply Sheet: (Optional) One ply of TopShield PRO APP-S torch adhered to base sheet.

Membrane: One ply of TopShield PRO APP-G, torch adhered to base or ply sheet.

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

Maximum Design Pressure: -120 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