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.
5900 Lake Forest Drive, Suite 400
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: SRS TopShield Underlayments

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 No. 25-0507.02 and consists of pages 1 through 17.
The submitted documentation was reviewed by Rafael Macedo.

01/01/26

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: Asphalt, SBS, Polyester

SCOPE:

This acceptance is for **SRS TopShield Underlayments**, for use with approved prepared roof assemblies where the applicable TAS/ASTM specific underlayment is specified and installed with prescribed approved adhesives, fasteners and fastener densities, as described in this Notice of Acceptance; designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone of the Florida Building Code.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
TopShield Ice & Water G300 *Manufacturing Location* **#1 & #2**	3' x 66'8" rolls 3' x 33'4" rolls	ASTM D1970	Fine granular surfaced, fiberglass reinforced, bituminous sheet material with a self-adhesive bottom layer, for use as an underlayment in sloped roof assemblies. Designed as an ice and water shield, and a shingle roofing underlayment.
TopShield TS600 Ice & Water *Manufacturing Location* **#1**	3' x 72' rolls	TAS 103	Fabric surfaced, non-reinforced, SBS modified bituminous sheet material with a self-adhesive bottom layer, for use as an underlayment in sloped roof assemblies. Designed as a shingle, tile and metal roofing underlayment.

PRODUCTS MANUFACTURED BY OTHERS:

Product	Dimensions	Test Specification	Product Description	Manufacturer
LeakBarrier® EasyLay® HS Base	3' x 72' rolls	ASTM D226, Type II	Asphalt saturated felt underlayment	Tarco Specialty Products, Inc.

MANUFACTURING LOCATION:

1. Greencastle, PA
2. Belton, TX

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
NEMO ETC, LLC.	TAR-SC8020.06.18	TAS 103/ASTM D4798	06/05/18
	4j-TAR-20-SSUDL-02.A	ASTM D1970	03/29/21
	4a-TAR-22-LSWUS-01.A	FM 4474/TAS 114 (D)	12/12/22
	4a-TAR-23-LSWUS-01.A	UL 1897	05/10/23
	4j-TAR-23-SSUDL-01.A	TAS 103/ASTM D1623	06/15/23
	4j-TAR-23-SSUDL-05.A	TAS103/ASTM D4798	11/16/23
	4a-TAR-23-LSWUS-03.A	UL 1897	12/20/23
	4a-TAR-23-LSWUS-02.A	UL 1897	01/03/24
	4a-TAR-LSWUS-001.A	UL 1897	05/14/24
	4a-TAR-LSWUS-002.A	UL 1897	05/29/24
	4a-TAR-LSWUS-004.A	UL 1897	06/18/24
	4a-TAR-LSWUS-005.A	UL 1897	07/29/24
	4a-TAR-LSWUS-006.A	UL 1897	07/29/24
	4a-TAR-LSWUS-008.A	UL 1897	10/15/24
	4j-TAR-SSUDL-001.B	TAS 117-B / ASTM D1876	03/31/25
	4a-TAR-LSWUS-011.A	UL 1897	05/22/25
	4a-TAR-LSWUS-012.A	UL 1897	07/28/25

BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

1. This Notice of Acceptance.
2. Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of these materials.

LABELING:

All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

APPROVED ASSEMBLIES – TOPSHIELD SELF-ADHERED UNDERLAYMENTS

Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 19/32" plywood, wood plank
System E(1):	Anchor sheet mechanically fastened to deck; membrane adhered.
Anchor/Base Sheet:	One or more plies of ASTM D226 Type II, ASTM D2626, with a minimum 4" wide side lap and a minimum 8" wide end lap, mechanically fastened to deck.
Fastening:	Approved nails and tin caps 6" o.c. within lap and two equally spaced staggered rows 12" o.c. in the field (for Anchor/Base sheet only).
Membrane:	All TopShield self-adhered membranes applied to an approved Anchor/Base Sheet. (See #15 in "Installation Requirements" for back nailing)
Surfacing:	See "Installation Requirements" for acceptable Roof Assemblies. **This assembly shall not be used with any Tile Roof Coverings.**
Deck Type 1:	Wood, Non-Insulated
Deck Description:	19/32" Plywood, APA rated sheathing, 40/20, Exposure 1, PS 1-19, CDX, 4-ply secured with 8d ring shank nails, 6 inch o.c. at supports maximum 24" o.c. spacing.
System E(2):	Anchor sheet mechanically fastened to deck; membrane adhered.
Anchor/Base Sheet:	**LeakBarrier® EasyLay® HS Base** Sheet mechanically attached with 12 ga. annular ring shank nails with 32 ga., 1-5/8 inch diameter tin caps, Trufast VERSA-FAST Fasteners (two per plate) with Trufast VERSA-FAST Metal Plates, Trufast VERSA-FAST Fasteners (one per plate) with Trufast VERSA-FAST Metal Plates, or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates spaced 6" o.c. at the 4-inch labs and 6" o.c. at two equally spaced center rows.
Membrane:	**TopShield TS600 Ice & Water**, self-adhered and back-nailed using 12 ga. annular ring shank nails and 32 ga., 1-5/8 inch diameter tinc caps, 12 inch o.c.
Surfacing:	Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.
Note:	For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA. • For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.
Underlayment Uplift Design Pressure:	-67.5 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

Deck Type 1:	Wood, Non-Insulated
Deck Description:	19/32" Plywood, APA rated sheathing, 40/20, Exposure 1, PS 1-19, CDX, 4-ply secured with 8d ring shank nails, 6 inch o.c. at supports maximum 24" o.c. spacing.
System E(3):	Anchor sheet mechanically fastened to deck; membrane adhered.
Anchor/Base Sheet:	**LeakBarrier® EasyLay® HS Base** Sheet mechanically attached with 12 ga. annular ring shank nails with 32 ga., 1-5/8 inch diameter tin caps, Trufast VERSA-FAST Fasteners (two per plate) with Trufast VERSA-FAST Metal Plates, Trufast VERSA-FAST Fasteners (one per plate) with Trufast VERSA-FAST Metal Plates, or Trufast #12 DP Fasteners with Trufast 3" Metal Insulation Plates spaced 6" o.c. at the 4-inch labs and 6" o.c. at four equally spaced center rows.
Membrane:	**TopShield TS600 Ice & Water**, self-adhered and back-nailed using 12 ga. annular ring shank nails and 32 ga., 1-5/8 inch diameter tinc caps, 12 inch o.c.
Surfacing:	Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.
Note:	For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA. • For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.
Underlayment Uplift Design Pressure:	-120 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

Deck Type 1:	Wood, Non-Insulated
Deck Description:	19/32" Plywood, APA rated sheathing PS1, 32/16, Exposure 1, 15/32 category, CDX, 4-ply secured with 8d ring shank nails, 6 inch o.c. at all supports.
System E(4):	Anchor sheet mechanically fastened to deck; membrane adhered.
Anchor/Base Sheet:	**LeakBarrier® EasyLay® HS Base** attached with 12 ga. annular ring shank nails, 1-5/8 inch diameter tin caps; 8-in. o.c. at the 4-in. laps and 8-in. o.c. at three equally spaced center rows.
Membrane:	**TopShield TS600 Ice & Water**, self-adhered and back-nailed using 12 ga. annular ring shank nails and 32 ga., 1-5/8 inch diameter tin caps, 12 inch o.c.
Surfacing:	Not included in this analysis. See "Installation Requirements" for acceptable Roof Assemblies.
Underlayment Uplift Design Pressure:	-52.5 psf.*

Deck Type 1:	Wood, Non-Insulated
Deck Description:	19/32" Plywood, APA rated sheathing PS 1-19, 40/20, Exposure 1, 19/32 category, CDX, 4-ply secured with 8d ring shank nails, 6 inch o.c. at all supports.
System E(5):	Anchor sheet mechanically fastened to deck; membrane adhered.
Anchor/Base Sheet:	**LeakBarrier® EasyLay® HS Base** attached with 12 ga. annular ring shank nails, 1-5/8 inch diameter tin caps; 6-in. o.c. at the 4-in. laps and 12-in. o.c. at two equally spaced center rows
Membrane:	**TopShield TS600 Ice & Water**, self-adhered and back-nailed using 12 ga. annular ring shank nails and 32 ga., 1-5/8 inch diameter tin caps, 12 inch o.c.
Surfacing:	Not included in this analysis. See "Installation Requirements" for acceptable Roof Assemblies.
Underlayment Uplift Design Pressure:	-45 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

Deck Type 1:	Wood, Non-Insulated
Deck Description:	19/32" Plywood, APA rated sheathing PS 1-19, 40/20, Exposure 1, 19/32 category, CDX, 4-ply secured with 8d ring shank nails, 6 inch o.c. at all supports.
System E(6):	Anchor sheet mechanically fastened to deck; membrane adhered.
Anchor/Base Sheet:	**LeakBarrier® EasyLay® HS Base** attached with 12 ga. annular ring shank nails, 1-5/8 inch diameter tin caps; 10-in. o.c. at the 4-in. laps and 10-in. o.c. at three equally spaced center rows
Membrane:	**NR600 Ultra**, self-adhered and back-nailed using 12 ga. annular ring shank nails and 32 ga., 1-5/8 inch diameter tin caps, 12 inch o.c.
Surfacing:	Not included in this analysis. See "Installation Requirements" for acceptable Roof Assemblies.
Underlayment Uplift Design Pressure:	-67.5 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

Deck Type 1:	Wood, Non-Insulated
Deck Description:	Minimum 19/32" plywood, wood plank
System F(1):	Membrane self-adhered direct to deck.
Membrane:	**TopShield Ice & Water G300** self-adhered in accordance with FBC HVHZ 1518.2.1(1) and back-nailed using 12 ga. x 1-1/2" long x 3/8 head diameter annular ring shank roofing nails with 32 ga., 1-5/8" diameter tin caps max 12" o.c.
Surfacing:	See "Installation Requirements" for acceptable Roof Assemblies. **This assembly shall not be used with any Tile Roof Coverings.**
Deck Type 3:	Concrete, Non-Insulated
Deck Description:	Structural concrete or concrete plank min. 2500 psi
System F(2):	Membrane self-adhered to concrete deck.
Deck Preparation:	The concrete deck shall be clean and dry and cured for a minimum of 28 days.
Anchor/Base Sheet:	None.
Fastening:	Membrane shall be back nailed with approved concrete fasteners and 1-5/8" approved tin caps at a maximum spacing of 9" o.c. at the head laps and be covered by the preceding layer. No back nail fasteners or tin caps shall remain exposed).
Membrane:	**TopShield TS600 Ice & Water,** self-adhered membrane applied directly to concrete deck. (See Fastening above for back nailing)
Surfacing:	Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA
Note:	For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA. • For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.
Maximum Design Pressure:	-217.5 psf.*

* **Maximum Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**

Deck Type 3:	Concrete, Non-Insulated
Deck Description:	Structural concrete or concrete plank min. 2500 psi
System F(3):	Membrane self-adhered to concrete deck.
Deck Preparation:	The concrete deck shall be clean and dry and cured for a minimum of 28 days.
Anchor/Base Sheet:	None.
Fastening:	Membrane shall be back nailed with approved concrete fasteners and 15/8" approved tin caps at a maximum spacing of 9" o.c. at the head laps and be covered by the preceding layer. No back nail fasteners or tin caps shall remain exposed).
Primer:	D41 primer
Membrane:	**TopShield TS600 Ice & Water,** self-adhered membrane applied directly to primed concrete deck. (See Fastening above for back nailing)
Surfacing:	Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA
Note:	For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA.
	For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.
Maximum Design Pressure:	-340.0 psf.*

* **Maximum Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system. Refer to roof system NOA for maximum design pressure of the final roof assembly.**

Deck Type 1: Wood, Non-Insulated

Deck Description: 15/32" APA rated, 32/16 span rating, CDX, 4-ply plywood or wood plank secured with #8 wood screws spaced 6" o.c. at supports maximum 24" o.c. spacing and blocking with a maximum 48" o.c. spacing.

System F(4): Membrane self-adhered directly to wood deck.

All General and System Limitations shall apply.

Membrane: **TopShield TS600 Ice & Water**, self-adhered with minimum 2" horizontal laps and minimum 6" vertical laps. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied.

When used in Tile roof systems the membrane shall be back nailed to deck with approved annular ring shank nails and caps at a maximum 12" o.c. at the side laps and 6" o.c. at the end laps. No nails or tin caps shall be exposed.

Surfacing: Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA.

- For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.

Underlayment Uplift Design Pressure: -105 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

Deck Type 1: Wood, Non-Insulated

Deck Description: 15/32" APA rated, 32/16 span rating, CDX, 4-ply plywood or wood plank secured with #8 wood screws spaced 6" o.c. at supports maximum 24" o.c. spacing and blocking with a maximum 48" o.c. spacing.

System F(5): Membrane self-adhered directly to wood deck.

All General and System Limitations shall apply.

Primer: ASTM D41 primer applied at a rate of 0.5 gal/sq.

Membrane: **TopShield TS600 Ice & Water**, self-adhered with minimum 2" horizontal laps and minimum 6" vertical laps. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied.

When used in Tile roof systems the base ply and membrane shall be back nailed to deck with approved annular ring shank nails and caps at a maximum 12" o.c. at the side laps and 6" o.c. at the end laps. No nails or tin caps shall be exposed.

Surfacing: Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA.

- For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.

Underlayment Uplift Design Pressure: -142.5 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

Deck Type 1: Wood, Non-Insulated

Deck Description: 19/32" APA rated sheathing PS2, CDX, 4-ply plywood or wood plank secured with 8d ring shank nails spaced 6" o.c., maximum 24" o.c. spacing

System F(6): Membrane self-adhered directly to wood deck.

Membrane: **TopShield TS600 Ice & Water**, self-adhered with minimum 2" horizontal laps and minimum 6" vertical laps. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied.

When used in Tile roof systems the membrane shall be back nailed to the deck with approved annular ring shank nails and caps at a maximum 12" o.c. at the side laps. No nails or tin caps shall be exposed.

Surfacing: Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA.

- For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.

Underlayment Uplift Design Pressure: -112.5 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

Deck Type 1: Wood, Non-Insulated

Deck Description: 19/32" APA rated sheathing PS2, CDX, 4-ply plywood or wood plank secured with 8d ring shank nails spaced 6" o.c., maximum 24" o.c. spacing

System F(7): Membrane self-adhered directly to wood deck.

Primer: ASTM D41 primer applied at ~0.5 gal/square.

Membrane: **TopShield TS600 Ice & Water**, self-adhered with minimum 2" horizontal laps and minimum 6" vertical laps. Place the fi TopShield TS600 Ice & Water rst course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied.

When used in Tile roof systems the membrane shall be back nailed to the deck with approved annular ring shank nails and caps at a maximum 12" o.c. at the side laps. No nails or tin caps shall be exposed.

Surfacing: Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA.

- For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.

Underlayment Uplift Design Pressure: -150.0 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

Deck Type 1: Wood, Non-Insulated

Deck Description: 19/32" APA rated sheathing PS2, CDX, 4-ply plywood or wood plank secured with 8d ring shank nails spaced 4" o.c., maximum 24" o.c. spacing

System F(8): Membrane self-adhered directly to wood deck.

Membrane: **TopShield TS600 Ice & Water**, self-adhered with minimum 2" horizontal laps and minimum 6" vertical laps. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release liner as the membrane is applied.

When used in Tile roof systems the membrane shall be back nailed to the deck with approved annular ring shank nails and caps at a maximum 12" o.c. at the side laps. No nails or tin caps shall be exposed.

Surfacing: Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA.

- For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.

Underlayment Uplift Design Pressure: -142.5 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

Deck Type 1: Wood, Non-Insulated

Deck Description: 19/32" Plywood, APA rated sheathing PS2, 40/20, Exposure 1, CDX, 4-ply at 24 inch span secured with 8d ring shank nails, 4 inch o.c.

System F(9): Membrane self-adhered directly to primed wood deck.

Primer: ASTM D41 primer applied at a rate of 0.5 gal/sq.

Membrane: **TopShield TS600 Ice & Water** self-adhered to the deck and back-nailed using 12 ga. annular ring shank nails and 1-5/8 inch diameter tin caps, 12 inch o.c.

Surfacing: Approved for asphalt shingle, mechanically fastened roof tile, foam-adhered roof tile, non-structural metal roofing, wood shakes & shingles or slate roof assemblies as specified within the Roof System NOA.

Note: For tile roof assemblies, refer to RAS 118, 119 or 120 and the tile manufacturer's NOA.

- For foam-adhered tile roof assemblies using **TopShield TS600 Ice & Water**, approved for use with ICP's **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, DuPont's **TILE BOND™ Roof Tile Adhesive**, **DAP Storm Bond Roof Tile Adhesive (HFO)**, and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**.

Underlayment Uplift Design Pressure: -82.5 psf.*

***Underlayment Uplift Design Pressure rating above is included for additional analysis of the underlayment assembly only by the Authority Having Jurisdiction. This value does not include the roof system.**

INSTALLATION REQUIREMENTS – TOPSHIELD SELF-ADHERED UNDERLAYMENTS:

1. TopShield self adhering underlayments shall be installed in strict compliance with applicable Building Codes.
2. Observe and comply with roofing practices and guidelines as outlined by the National Roofing Contractors Associations (NRCA) when installing TopShield self adhering underlayments.
3. During installation, comply with Occupational Safety and Health Administration (OSHA) safety standards; use common sense measures and adequate safety precautions to prevent accidents.
4. **TopShield TS600 Ice & Water** shall be acceptable underlayment for mechanically fastened roof tile and adhered roof tile applications with **APOC® Polyset® AH-160**, **APOC® Polyset® RTA-1**, **TILE BOND™ Roof Tile Adhesive, DAP Storm Bond Roof Tile Adhesive (HFO),** and **DAP Storm Bond 2 Roof Tile Adhesive (HFO)**. **TopShield Ice & Water G300** shall be acceptable underlayments for asphaltic shingles, wood shakes and shingles, and slate or simulated slate roof assemblies. **TopShield TS600 Ice & Water** shall be acceptable underlayment for metal roof assemblies.
5. Re-fasten any loose decking panels, and check for protruding nail heads prior to the application of the TopShield self adhering underlayments.
6. TopShield self adhering underlayments shall not be adhered directly over any pre-existing roof membrane.
7. All approved substrates are to be clean, dry and free of any loose debris or moisture prior to the application of the TopShield self adhering underlayments. Refer applicable building codes prior to installation to verify acceptable substrates.
8. Prime all metal collars, flashing, valleys, liner, drip edge and concrete deck substrate with ASTM D 41 primer, water based acrylic or water based polymer modified primer (unless specified within the approved assemblies).
9. Contractor may cut the underlayments into sections for workability and allow to relax prior to application.
10. Place the underlayments over metal drip edge in accordance with RAS 111.
11. Install the first course of underlayment parallel to the eave edge.
12. Apply the underlayment, working from the center of the material continuously to the ends of the sheet (half of the length of the sheet is the center); taking care to avoid wrinkles and ridges.
13. Remove the underlayments release film rapidly in a continuous fashion. Ensure the bottom adhesive side of the membrane does not adhere to its self. In the event this transpires,separate the two layers immediately. After some time, it may become impossible to do so without damaging the material.
14. It is recommended that end laps be staggered a minimum of 18" from the preceding course.
15. Underlayments are to be back nailed along the head lap. The nails shall be, 11 gauge $1^{1}/_{4}$" approved ring shank type applied with a minimum of a $1^{5}/_{8}$" approved tin cap or approved capnail as required per the High Velocity Hurricane Zone (HVHZ) section of the FBC, at a minimum rate of 9" o.c. The head lap of the preceding layer of underlayment is to cover the area being back nailed.
16. Roll or broom the entire membrane surface paying special attention to all overlap areas "side laps, end laps, T-joints" to ensure adhesion with acceptable substrates. A minimum of a 28 lb weighted roller may be used for steep slope applications. The use of a soft bristled push broom is acceptable on steeper slopes. The above mentioned procedures are necessary in order to apply uniform pressure and allow for contact of the membranes.
17. Apply $^{1}/_{8}$" thick uniform layer of SBS trowel grade modified bitumen asphalt adhesive / flashing cement throughout the contact area of the 6" granule over granule and fabric over fabric end laps. Once the aforementioned procedure has been completed, the membrane must then be hand rolled in place in order to ensure contact of membrane and achieve a minimum of $1/8^{th}$" asphaltic bleed out in designated area.
18. TopShield self adhering underlayments shall be applied to protrusions, slope changes, valleys, curbs, and other roof top penetrations before any other sections of the roof.
19. When applying underlayments in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in each direction.
20. For ridge applications, center the underlayment and roll from the center outward in both directions.

INSTALLATION REQUIREMENTS – TOPSHIELD SELF-ADHERED UNDERLAYMENTS: (CONTINUED)

21. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance and applicable Building Code.
22. All protrusions or drains shall be initially taped with a 6" piece of like kind membrane. The flashing tape shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of like kind membrane shall be applied over the flashing detail.
23. Vertical strapping of TopShield self adhering membranes is acceptable.

GENERAL LIMITATIONS – TOPSHIELD SELF-ADHERED UNDERLAYMENTS:

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. This acceptance is for prepared roofing applications. Minimum deck requirements shall be in compliance with applicable building code.
3. TopShield self adhering underlayments shall be applied only when material interface temperatures are 40^0 F and rising.
4. TopShield self-adhered underlayments shall not be installed when any form of moisture such as water, dew, rain, etc. is present on the substrate.
5. TopShield self-adhered underlayments are to be applied to a smooth, clean and dry surface, with the deck free from irregularities.
6. Ensure roof has positive drainage prior to installation of TopShield self-adhered underlayments.
7. TopShield self adhering underlayments shall not be adhered directly over any pre-existing roof membrane.
8. After installation of TopShield self-adhered membranes, wait a minimum of 48 hours before roof loading of tiles.
9. Care should be taken during the loading procedure to keep foot traffic to a minimum and avoid dropping the roof covering directly on the underlayment.
10. All tiles shall be staged (two tiles perpendicular to slope, four tiles on top parallel to slope) as per manufacturer's requirements, not to exceed 6-high, to the standard maximum roof pitch of 6 :12 for flat tiles and 6 :12 for lugged tiles (See Tile Staging Method diagram below).

    At roof slopes greater than the above limitations, the use of loading battens or toe boards are required to load the roof tile.

Tile Staging Method

Front View - Staged Tiles (Slope →)

Side View - Staged Tiles (Slope ↓)

GENERAL LIMITATIONS – TOPSHIELD SELF-ADHERED UNDERLAYMENTS: (CONTINUED)

11. 1-ply system of TopShield TS600 Ice & Water followed by TopShield TS600 Ice & Water shall be staged (10-tile stack) as per manufacturer's requirements, not to exceed 10-high, to the standard maximum roof pitch of 6 :12 for flat tiles and 6 :12 for lugged tiles (See Tile Staging Method diagram below).

    At roof slopes greater than the above limitations, the use of loading battens or toe boards are required to load the roof tile.

Tile Staging Method

Side View - Staged Tiles (Slope ↓)

12. The manufacturer reserves the right to change the tile staging method at any time as well as the number of tiles stacked, not to exceed the preceding maximum number of tiles limitation.
13. TopShield Ice & Water G300 shall not be left exposed as a temporary roof for longer than 30 days after application. TopShield TS600 Ice & Water shall not be left exposed as a temporary roof for longer than 180 days after application. If an Executive Order is in place, then the following underlayment: TopShield TS600 Ice & Water may be left exposed an additional 180 days for a total of 360 days from the day of installation. The manufacturer reserves the right to change product exposure period at any time; not to exceed the preceding maximum time limitations.
14. Refer to prepared roofing system Product Control Notice of Acceptance for listed approval of TopShield underlayments with specific prepared roofing products. TopShield self-adhered underlayments may be used with any approved roof coverings Notice of Acceptance listing TopShield self adhering underlayments or the ASTM standard which the self adhering underlayments meet as a component part of an assembly in the Notice of Acceptance.

    If TopShield self-adhered underlayments or the ASTM standards are not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the product, wind uplift resistance, and fire testing results.
15. All products lised herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

MANUFACTURER'S CONSIDERATIONS:

1. When using TopShield TS600 Ice & Water in tile roofing applications, use of loading battens or toe boards on roof slopes greater than 6:12 and higher is recommended.
2. Code body requirements supersede manufacturer's recommendations and installation guidelines.

END OF THIS ACCEPTANCE