



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

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

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**DURO-LAST Roofing, Inc.**  
525 Morley Drive  
Saginaw, MI 48601

### 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: DURO-LAST Single Ply PVC Roof Systems over Gypsum Decks

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

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

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

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

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

This NOA renews and revises NOA No. 14-0325.11 and consists of pages 1 through 13.  
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 17-0202.06  
Expiration Date: 08/22/22  
Approval Date: 08/17/17  
Page 1 of 13

## ROOFING SYSTEM APPROVAL

Category: Roofing  
Sub-Category: Single Ply  
Material: PVC  
Deck Type: Gypsum  
Maximum Design Pressure: -245 psf.

### 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>
Duro-Last Membrane	37 mil thick, Various widths x 150 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
Duro-Last Membrane	45 mil thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
Duro-Last Membrane	57 mil thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
Duro-Last Designer Series	45 mil thick Various widths & lengths	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane: Rock-Ply & Shingle-Ply.
Duro-Fleece Membrane	47 mil thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Fleece Membrane	56 mil thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Fleece Membrane	80 mil thick, Various widths x 65 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Fleece Plus Membrane	47 mil thick, Various widths x 100 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Fleece Plus Membrane	56 mil thick, Various widths x 80 ft. rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Tuff Membrane	45 mil thick Various widths x 100 ft rolls	ASTM D4434	PVC polymer blend polyester reinforced fleece backed roofing membrane.
Duro-Tuff Membrane	57 mil thick Various widths x 100 ft rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.
Duro-Tuff Membrane	80 mil thick Various widths x 65 ft rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane.



<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Duro-Last EV	53 mil thick Various widths x 100 ft rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane with KEE films.
Duro-Last EV	60 mil thick Various widths x 100 ft rolls	ASTM D4434	PVC polymer blend polyester reinforced roofing membrane with KEE films.
Duro-Last Fascia Bar	1 ¾" x 10'; 4" x 10'	N/A	Extruded vinyl drip edge with holes punched 8" o.c.
Duro-Last Fascia Bar Cover	1 ¾" x 10'; 4" x 10'	N/A	Extruded decorative cover for Duro-Last Fascia Bar.
Duro-Last Fascia	2" & 4"	TAS 111	Kynar finish Galvalume, 24 ga., cover.
Duro-Last Snap Coping	12"	TAS 111	Kynar finish Galvalume, 24 ga., coping.
Duro-Last 2-Piece Metal "T-Edge"	N/A	TAS 111	Kynar finish Galvalume, 24 ga., with vinyl skirt.
Duro-Last 2-Piece Compression Edge	N/A	TAS 111	Kynar finish Galvalume, 24 ga.
Duro-Last Drip Edge	2" face x 10'; 4" face x 10';	N/A	Extruded vinyl drip edge with holes punched 8" o.c.
Duro-Last Two-Way Roof Vents	N/A	N/A	Injection molded two-way roof vents with a Duro-Last membrane skirt.
Duro-Last Gravel Stop	2" face x 10'; 4" face x 10';	N/A	Extruded vinyl gravel stop with holes punched 8" o.c.
Roof-Trak III Walk Pads	30" x 60" .125" thick	N/A	Extruded vinyl walk way pads manufactured from Duro-Last membrane.
Duro-Fleece CR-20 Membrane Adhesive	40 lb. Cylinder A 35 lb. Cylinder B	N/A	Two-component membrane adhesive.
Duro-Grip CR-20 Adhesive	40 lbs. Cylinder A 35 lbs. Cylinder B	Proprietary	Dual component, low-rise polyurethane foam adhesive.
Duro-Last WB II Adhesive	5 gal. pail	Proprietary	Polymeric waterborne membrane adhesive.
Duro-Last SB IV	5 gal. pail	Proprietary	Low VOC solvent-based membrane adhesive
Duro-Last Tab Sealer 4725	N/A	N/A	Solvent-based contact-bonding agent.
Duro-Last Accessories	Various	ASTM D 4434	Custom fabricated accessories for parapets and penetrations: Curb flashing, Inside & Outside Corner, Scuppers, Drain Boot, Parapet Flashing, Stack Flashing; all for use in the Duro-Last roofing systems.
Duro-Grip OlyBond 500	10 gal.	N/A	Dual-component polyurethane adhesive
Duro-Grip WeatherTite One Step	Four 1.5 Liter Cartridges	Proprietary	Insulation Adhesive



<b><u>Product</u></b>	<b><u>Dimensions</u></b>	<b><u>Test Specification</u></b>	<b><u>Product Description</u></b>
Duro-Grip InstaStik	30 lb unit	Proprietary	Single component, moisture cured polyurethane adhesive.
Duro-Blue Separation Slip Sheet	4 mil x 20' x 360'; 4 mil x 20' x 100'	N/A	Separation slip sheet produced from coextruded polyethylene film.
Duro-Last Duro-Weave Separation Slip Sheet	2.5 mil x 12' x 328'	N/A	Separation slip sheet produced from high density polyethylene tapes and coated on one side with low density polyethylene.

**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
ACFoam II, ACFoam III	Polyisocyanurate foam insulation	Atlas Roofing Corp
ISO 95+ GL	Polyisocyanurate foam insulation	Firestone Building Products Company, LLC
Type X Gypsum	Gypsum Board	Generic
DensDeck, DensDeck Prime	Silicon treated gypsum.	Georgia-Pacific Gypsum LLC
ENRGY-3	Polyisocyanurate foam insulation.	Johns Manville
SECUROCK Gypsum-Fiber Roof Board	Fiber reinforced insulation board.	USG Corporation
H-Shield	Polyisocyanurate foam insulation.	Hunter Panels, LLC
H-Shield CG	Polyisocyanurate foam core laminated to a coated fiberglass facer.	Hunter Panels, LLC
Duro-Guard EPS	Expanded polystyrene	Duro-Last Roofing, Inc.
Duro-Guard EPS FGF	Expanded polystyrene with fiberglass facers	Duro-Last Roofing, Inc.
Multi-Max FA-3, Thermaroom Composite-3	Polyisocyanurate foam insulation.	Rmax Operating, LLC
Duro-Guard ISO II-H, and Tapered	Polyisocyanurate foam insulation.	Duro-Last Roofing, Inc.
Duro-Guard ISO III-H, and Tapered	Polyisocyanurate foam core laminated to a coated fiberglass facer.	Duro-Last Roofing, Inc.
Duro-Guard ISO II-A, and Tapered	Polyisocyanurate foam insulation.	Duro-Last Roofing, Inc.
Duro-Guard ISO III-A, and Tapered	Polyisocyanurate foam core laminated to a coated fiberglass facer.	Duro-Last Roofing, Inc.
Duro-Guard Iso IV-A, and Tapered	Polyisocyanurate insulation with fiberglass reinforced organic facers	Duro-Last Roofing, Inc.
Duro-Guard ISO II-G & Tapered	Polyisocyanurate insulation with fiberglass reinforced organic facers	Duro-Last Roofing, Inc.
Duro-Guard ISO HD-G	High density polyisocyanurate insulation with coated fiberglass facers	Duro-Last Roofing, Inc.
DEXcell Cement Roof Board	Insulation with cementitious core and fiberglass mesh facers	National Gypsum Company
DEXcell FA Glass Mat Roof Board	Insulation with gypsum core and heavy duty coated glass mat facers	National Gypsum Company



**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
1.	Duro-Last Duro-Auger	Glass reinforced nylon fastener	Various Lengths	Duro-Last Roofing, Inc.
2.	Polymer GypTec	Glass reinforced nylon fastener	Various Lengths	OMG, Inc.
3.	Polymer GypTec Insulation Plate	AZ-55 Galvalume plate for use with the Polymer GypTec fastener.	3" round	OMG, Inc.
4.	Polymer GypTec Plate 2" with Barbs	AZ-55 Galvalume plate for use with the Polymer GypTec fastener.	2" round	OMG, Inc.
5.	Duro-Last Auger Plate	Galvalume steel stress plate for use with Duro-Last Duro-Auger fasteners	2" round	Duro-Last Roofing, Inc.
6.	Trufast Twin Loc Coiled Batten Bar	Batten bar for mechanical attachment of membrane	1" wide 0.040" wide 100' length	Altenloh, Brinck & Co. U.S., Inc.
7.	Trufast Twin Loc-Nail Batten Fastener	Two-piece assembled fastener. AZ-55 Galvalume or G-90 and stainless steel or coated steel fastener	Various lengths	Altenloh, Brinck & Co. U.S., Inc.
8.	Trufast Twin Loc-Nail Assembled Fastener	Three-piece assembled fastener. AZ-55 Galvalume or G-90 fastener	Various lengths	Altenloh, Brinck & Co. U.S., Inc.



**EVIDENCE SUBMITTED:**

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>	
Factory Mutual Research Corporation	3Y5A6.AM	Class 4470	03-10-95	
	4D6A4.AM	Class 4470	08-90-99	
	3005604	Class 4470	03-13-00	
	3008342	Class 4470	10-19-00	
	3030225	Class 4470	06-18-07	
	3023458	Class 4450	07-18-06	
	3040741	Class 4470	10-17-11	
	3050118	Class 4470	01-20-14	
Exterior Research & Design, L.L.C.	02737.03.05-1	TAS 114-J	03-21-05	
	P6860.06.07	TAS 114-D	06-08-07	
	02742.10.05	TAS 117(A) & (B)	10-12-05	
	02732.09.04	ASTM D4434	09-28-04	
	02745.08.06	TAS 117(A)	08-04-06	
Trinity ERD	02750.02.08-R2	ASTM D4434	08-03-12	
	D42370.07.12	ASTM D1084/TAS 117	07-11-12	
	D35210.08.11-R1	ASTM D4434	09-17-12	
	D40280.03.13	ASTM D4434	03-13-13	
	D40260.03.13.1	ASTM D4434	03-29-13	
	D44450.05.13-2	ASTM D4434	05-10-13	
	D35210.08.11R3	ASTM D4434	03-25-13	
	DL-SC13445.02.17	ASTM D4434	02/17/17	
Intertek Testing Services, NA Inc.	3119586-001	TAS 111	07-10-07	
PRI Construction Materials Technologies LLC	DLRI-053-02-01	ASTM D4434	06-26-14	
	DLRI-021-02-01.12	ASTM D1761/D1876	06/27/17	
		TAS 117-B		
	DLRI-099-02-01	TAS 114 (J)	07/20/16	
	DLRI-114-02-01	TAS 114 (J)	04/05/17	



**APPROVED ASSEMBLIES**

- Membrane Type:** Single Ply, PVC
- Deck Type 6I:** Poured Gypsum, Insulated
- Deck Description:** Poured Gypsum Concrete
- System Type A:** One or more layers of insulation adhered with approved adhesive, membrane fully adhered.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

One or more layers of the following insulations:

<b>Base Insulation Layer (Optional)</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>ACFoam II, ACFoam III, Duro-Guard ISO II-A, Duro-Guard ISO III-A, ISO 95+ GL, H-Shield, H-Shield CG, Duro-Guard ISO II-H, Duro-Guard ISO III-H, ENRGY 3, Multi-Max FA-3 Minimum 1-1/2" thick</b>	N/A	N/A
<b>Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>SECUROCK Gypsum-Fiber Roof Board Minimum 1/4" thick</b>	N/A	N/A

**Note: All insulation shall be adhered to the deck with Duro-Grip CR-20 Adhesive in 2-1/2- 3-1/2" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Membrane:** Duro-Last membrane, Duro-Fleece Plus membrane, Duro-Tuff membrane or Duro-Last EV membrane fully adhered to the SECUROCK Gypsum-Fiber Roof Board with Duro-Last WB II Adhesive at a rate of 100 ft<sup>2</sup>/gal. Laps are sealed with a minimum 1.5" wide heat weld.

**Maximum Design Pressure:** -245 psf. (See General Limitation #9)



**Membrane Type:** Single Ply, PVC  
**Deck Type 6I:** Poured Gypsum, Insulated  
**Deck Description:** Poured gypsum concrete  
**System Type D:** All layers of insulation are preliminarily attached to roof deck as specified below. Membrane is mechanically attached to deck through the insulation layers.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
<b>ACFoam II, Duro-Guard ISO II-A, Duro-Guard ISO III-H, Duro-Gard ISO III-A, Duro-Guard IV-A, ENRGY-3, Any Approved XPS and/or EPS listed in Table 2. Minimum 1” thick</b>	N/A	N/A
<b>Duro-Guard ISO II-H Minimum 1-1/2” thick</b>	N/A	N/A
<b>SECUROCK Gypsum-Fiber Roof Board, DensDeck Prime Minimum 1/4” thick</b>	N/A	N/A
<b>Duro-Guard ISO HD-A, Duro-Guard ISO HD-H Minimum 1/2” thick</b>	N/A	N/A

**Note: Insulation layers above shall be mechanically attached with preliminary fastening. All Insulation panels shall be mechanically fastened along with the roof membrane as specified below. See Roofing Application Standard RAS 117 for fastening details.**

**Vapor Barrier:** (Optional) Any UL or FM approved vapor barrier.

**Fire Barrier:** Atlas Roofing Corporation FR-10® Fire Retardant Slip Sheet, FR-50® Fire Retardant Slip Sheet, ¼" DensDeck, ½" thick UL Classification Type X Gypsum with a moisture resistant facer and core, or a second sheet of barrier board may be used over the insulation (see General Limitation #1).

**Membrane, 57" tabs:** Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be mechanically attached at its 6" tabs, spaced every 57" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Auger Fastener and Duro-Last Auger Plates spaced 12" o.c. maximum, through the insulation and into the deck. Laps are sealed with a minimum 1.5" wide heat weld.

**Membrane, 27" bs:** Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be mechanically attached at its 3" tabs, spaced every 27" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Auger Fastener and Duro-Last Auger Plates spaced 18" o.c. maximum, through the insulation and into the deck. Laps are sealed with a minimum 1.5" wide heat weld.

**Maximum Design Pressure:** -45 psf. (See General Limitation #9)





**Membrane Type:** Single Ply, PVC  
**Deck Type 6:** Poured Gypsum, Non-insulated  
**Deck Description:** Poured gypsum concrete  
**System Type E(1):** Membrane mechanically attached to roof deck.

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Vapor Barrier:** (Optional) Any UL or FM approved vapor barrier.

**Fire Barrier:** Atlas Roofing Corporation FR-10® Fire Retardant Slip Sheet, FR-50® Fire Retardant Slip Sheet, ¼" DensDeck, ½" thick UL Classification Type X Gypsum with a moisture resistant facer and core, or a second sheet of barrier board may be used over the insulation (see General Limitation #1).

**Separation Sheet:** (Optional) One (1) ply of Duro-Blue or Duro-Last Duro-Weave Separation Slip Sheet applied as per manufacturers installation instructions.

**Membrane, 57" tabs:** Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be mechanically attached at its 6" tabs, spaced every 57" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Augur Fasteners and Duro-Last Augur Plates spaced 12" o.c. maximum, into the deck. Laps are sealed with a minimum 1.5" wide heat weld.

**Membrane, 27" tabs:** Duro-Last membrane, Duro-Tuff membrane or Duro-Last EV membrane shall be mechanically attached at its 3" tabs, spaced every 27" with Polymer GypTec Fasteners and Polymer GypTec Insulation Plates or Duro-Last Duro-Augur Fasteners and Duro-Last Augur Plates spaced 18" o.c. maximum, into the deck. Laps are sealed with a minimum 1.5" wide heat weld.

**Maximum Design Pressure:** -45 psf. (See General Limitation #9)



**Membrane Type:** Single Ply, PVC  
**Deck Type 6:** Poured Gypsum, Non-insulated  
**Deck Description:** Poured gypsum concrete  
**System Type E(2):** Membrane mechanically attached to roof deck

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Slip Sheet Optional:** One (1) ply of Duro-Last Duro-Weave Separation Slip Sheet or Duro-Last Duro-Blue Slip Sheet applied as per manufacturers installation instructions.

**Membrane:** Duro-Last or Duro-Tuff membrane shall be mechanically attached 6” o.c. in rows spaced 48” o.c. with 2-1/2” Duro-Last Auger Fasteners and Auger Plates or Trufast Twin Loc Coiled Batten bar and 1.8” Trufast Twin Loc Nail batten Fastener. A 10” wide cover strip welded over the fastener rows with a 1-1/2” wide heat weld.

**Maximum Design Pressure:** -45 psf. (See General Limitation #7)

**Membrane Type:** Single Ply, PVC  
**Deck Type 6:** Poured Gypsum, Non-insulated  
**Deck Description:** Poured gypsum concrete  
**System Type E(3):** Membrane mechanically attached to roof deck

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Slip Sheet Optional:** One (1) ply of Duro-Last Duro-Weave Separation Slip Sheet or Duro-Last Duro-Blue Slip Sheet applied as per manufacturers installation instructions.

**Membrane:** Duro-Last or Duro-Tuff membrane shall be mechanically attached 3” o.c. in rows spaced 48” o.c. with Trufast Twin Loc Coiled Batten bar and 1.8” Trufast Twin Loc Nail Batten Fastener. A 10” wide cover strip welded over the fastener rows with a 1-1/2” wide heat weld.

**Maximum Design Pressure:** -82.5 psf. (See General Limitation #7)



**Membrane Type:** Single Ply, PVC  
**Deck Type 6:** Poured Gypsum, Non-insulated  
**Deck Description:** Poured gypsum concrete  
**System Type E(4):** Membrane mechanically attached to roof deck

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Slip Sheet Optional:** One (1) ply of Duro-Last Duro-Weave Separation Slip Sheet or Duro-Last Duro-Blue Slip Sheet applied as per manufacturers installation instructions.

**Membrane:** Duro-Tuff membrane shall be mechanically attached 6” o.c. in rows spaced 48” o.c. with 1.8” Trufast Twin Loc-Nail Assembled Fastener. A 10” wide cover strip welded over the fastener rows with a 1-1/2” wide heat weld. Two (2) inch wide laps are sealed with a minimum 1-1/2” wide heat weld.

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



**Membrane Type:** Single Ply, PVC  
**Deck Type 6:** Poured Gypsum, Non-insulated  
**Deck Description:** Poured gypsum concrete  
**System Type F:** Membrane adhered to roof deck

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

**Membrane:** Duro-Fleece membrane shall be adhered with Duro-Fleece CR-20 Membrane Adhesive applied in a splatter pattern at a rate of 8.3 lbs./sq. The 4.5” wide laps are sealed with a minimum 1-1/2” wide heat weld.

**Maximum Design Pressure:** -105 psf. (See General Limitation #9)



## 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 sidelap 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 Engineer, 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 and/or RAS 137. 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 with 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**

