MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
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MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Siplast, Inc.
1111 Highway 67 South
Arkadelphia, AR 71923

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: Siplast Terapro Waterproofing Systems

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 10.
The submitted documentation was reviewed by Jorge L. Acebo

MIAMI-DADE COUNTY APPROVED

NOA No.: 09-1117.01
Expiration Date: 12/16/10
Approval Date: 12/16/09

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Waterproofing
Deck Type:	Concrete and Recover
Material:	PMMA
Maximum Design Pressure	**-495 psf**

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

Product	Dimensions	Test Specification	Product Description
Terapro Liquid Applied Membrane	5 and 10-kg Drums	Proprietary	A liquid applied reinforced PMMA membrane system
Terapro Base Resin/Terapro Wearing Layer Resin	5 and 10-kg Drums	Proprietary	Multi-component PMMA resin
Pro Fleece	12"x 16.5' roll 12"x 82' roll 25"x 164' roll 41"x 164' roll	Proprietary	Non-woven, needle punched, polyester fabric reinforcement
Pro Primer R Resin	5-kg & 10-kg Drums	Proprietary	PMMA primer component for use over BUR, modified bitumen or other soft substrates
Pro Primer W Resin	5-kg & 10-kg Drums	Proprietary	PMMA primer component for use over wood, concrete or other hard substrates
Pro Primer T Resin	5-kg & 10-kg Drums	Proprietary	PMMA primer component for use over wood, concrete or other hard substrates
Pro Catalyst Powder	Box of 10 3.2oz bags	Proprietary	Reactive agent for use during priming and membrane application
Pro Clear Finish Resin	5-kg & 10-kg Drums	Proprietary	Clear, multi-component, flexible PMMA resin
Pro Color Finish Resin	5-kg & 10-kg Drums	Proprietary	Color pigmented, multi component, flexible PMMA
Paradiene 20	3.28' x 50'	ASTM D6163	Asphalt elastomer sheet with random fiberglass mat reinforcement for use as a base ply.
Para-Stik Insulation Adhesive	30 lb pressurized cylinders	N/A	A single component moisture curing urethane foam adhesive

TABLE 2

APPROVED INSULATIONS:

Product	Description	Manufacturer (With Current NOA)
Paratherm W, H	Isocyanurate insulation	Siplast
ACFoam II	Isocyanurate insulation	Atlas Roofing
H-Shield	Isocyanurate insulation	Hunter Panels
Multi-Max 3, FA-3	Polyisocyanurate foam insulation	Rmax
DensDeck, DensDeck DuraGuard	Water resistant gypsum	G-P Gypsum Corp.
Securock	Water resistant recycled cellulose and synthetic gypsum	USG
DuraBoard	High-density perlite roof insulation	Johns Manville

TABLE 3

APPROVED FASTENERS:

Fastener Number	Product	Description	Dimension	Manufacturer (With Current NOA)
1.	N/A	N/A	N/A	N/A

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Factory Mutual	3029275 3027962	FM 4470 FM 4470	03/24/08 10/03/06
Trinity|ERD	C8500SC.11.07 S9000.03.09-R1	TAS 117-B / ASTM D6862 Physical Properties G155/D638 ASTM D1929/D2843/D635 TAS 114-D/ TAS 114-J	11/30/07 05/06/09
Momentum Technologies, Inc.	TX31G6A	Physical Properties	08/19/09

APPROVED ASSEMBLIES:

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(1): Insulation adhered with approved asphalt. Subsequent system fully adhered.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Base Layer:	**Insulation Fasteners Table 3**	**Fastener Density/ft²**
AC Foam II, Paratherm W Minimum: 1.5" thick	N/A	N/A

Insulation Top Layer:	**Insulation Fasteners Table 3**	**Fastener Density/ft²**
Dens-Deck Minimum ½" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Primer: Apply Pro Primer W Resin to DensDeck at a minimum rate of 0.082 lb/ft^2.

Membrane: Base coat of Terapro Base Resin roller applied at a minimum rate of 0.42 lb/ft^2 onto the primer; followed by one ply of Pro Fleece laid in the wet base coat; followed by a top coat of Terapro Base Resin roller applied at a minimum rate of 0.27 lb/ft^2 onto the embedded Pro Fleece.

Surfacing: N/A

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.

Maximum Design Pressure: **-262.5 psf.** (See General Limitation #9)

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(2): Insulation adhered with approved asphalt. Subsequent system fully adhered.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Insulation Base Layer (Optional):	**Insulation Fasteners Table 3**	**Fastener Density/ft²**
AC Foam II, Paratherm W Minimum: 1.5" thick	N/A	N/A

Insulation Top Layer:	**Insulation Fasteners Table 3**	**Fastener Density/ft²**
Securock Minimum ¼" thick	N/A	N/A

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of insulation. All insulation shall be adhered in full mopping of approved asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Primer: Apply Pro Primer W Resin to Securock at a minimum rate of 0.082 lb/ft^2.

Membrane: Base coat of Terapro Base Resin roller applied at a minimum rate of 0.42 lb/ft² onto the primer; followed by one ply of Pro Fleece laid in the wet base coat; followed by an intermediate coat of Terapro Base Resin roller applied at a minimum rate of 0.21 lb/ft² onto the embedded Pro Fleece. A wearing layer coat of Terapro Wearing Layer Resin is applied over the intermediate coat at a minimum rate of 0.21 lb/ft².

Surfacing: Quartz granules are cast over the wearing layer at a minimum rate of 0.21 lb/ft² followed by a layer of Pro Clear Finish or Pro Color Finish at a minimum rate of 0.14 lb/ft².

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.

Maximum Design Pressure: **-262.5 psf** with ACFoam II or Paratherm W (See General Limitation #9)
-495 psf with Secruock (See General Limitation #9)

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(3): Insulation adhered with approved adhesive. Subsequent system fully adhered.

All General and System Limitations apply.

Insulation Base Layer:	**Insulation Fasteners Table 3**	**Fastener Density/ft²**
AC Foam II, Paratherm W Minimum: 1.5" thick	N/A	N/A

Insulation Top Layer:	**Insulation Fasteners Table 3**	**Fastener Density/ft²**
DensDeck Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered with Para-Stik Roofing Adhesive or Olybond 500 Adhesive Fastener applied in continuous ¾ to 1 in. ribbons spaced 12 in. o.c. or with Olybond Adhesive Fastener spray applied at a rate of 1.0 gal/square. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Primer: Apply Pro Primer W Resin to DensDeck at a minimum rate of 0.082 lb/ft^2.

Membrane: Base coat of Terapro Base Resin roller applied at a minimum rate of 0.42 lb/ft² onto the primer; followed by one ply of Pro Fleece laid in the wet base coat; followed by a top coat of Terapro Base Resin roller applied at a minimum rate of 0.27 lb/ft² onto the embedded Pro Fleece.

Surfacing: N/A

Integrity Test: Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.

Maximum Design Pressure: **-120 psf.** (See General Limitation #9)

Deck Type 3I:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(1):	Siplast system applied directly to substrate

All General and System Limitations apply.

Membrane:	Base coat of Terapro Base Resin roller applied at a minimum rate of 0.42 lb/ft^2 onto the primer; followed by one ply of Pro Fleece laid in the wet base coat; followed by a top coat of Terapro Base Resin roller applied at a minimum rate of 0.27 lb/ft^2 onto the embedded Pro Fleece.
Surfacing:	N/A
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Maximum Design Pressure:	**-52.5 psf** (See General Limitation #9)

Deck Type 3I:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(2):	Siplast system applied directly to substrate

All General and System Limitations apply.

Primer:	Apply Pro Primer W Resin to Securock at a minimum rate of 0.082 lb/ft^2.
Membrane:	Base coat of Terapro Base Resin roller applied at a minimum rate of 0.42 lb/ft^2 onto the primer; followed by one ply of Pro Fleece laid in the wet base coat; followed by a top coat of Terapro Base Resin roller applied at a minimum rate of 0.27 lb/ft^2 onto the embedded Pro Fleece.
Surfacing:	N/A
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Maximum Design Pressure:	**-322.5 psf** (See General Limitation #9)

Deck Type 3I:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(3):	Siplast system applied directly to substrate

All General and System Limitations apply.

Primer:	Apply Pro Primer W Resin to deck at a minimum rate of 0.082 lb/ft^2.
Membrane:	Base coat of Terapro Base Resin roller applied at a minimum rate of 0.42 lb/ft^2 onto the primer; followed by one ply of Pro Fleece laid in the wet base coat; followed by an intermediate coat of Terapro Base Resin roller applied at a minimum rate of 0.21 lb/ft^2 onto the embedded Pro Fleece. A wearing layer coat of Terapro Wearing Layer Resin is applied over the intermediate coat at a minimum rate of 0.21 lb/ft^2.
Surfacing:	Quartz granules are cast over the wearing layer at a minimum rate of 0.21 lb/ft^2 followed by a layer of Pro Clear Finish or Pro Color Finish at a minimum rate of 0.14 lb/ft^2.
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Maximum Design Pressure:	**-495 psf** (See General Limitation #9)

Deck Type 3I:	Concrete Decks, Non-Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type F(4):	Siplast system applied directly to substrate

All General and System Limitations apply.

Primer:	Concrete deck is primed with Siplast PA-1125 Primer, or any ASTM D41 asphaltic primer, followed by a flood coat of hot asphalt applied at a rate of 20-25 lb/sq.
Base Sheet:	Paradiene 20 base membrane is fully adhered in hot asphalt applied at a rate of 20-25 lb/sq onto the primed deck.
Primer:	Apply Pro Primer R Resin to the base sheet at a minimum rate of 0.082 lb/ft^2.
Membrane:	Base coat of Terapro Base Resin roller applied at a minimum rate of 0.42 lb/ft^2 onto the primer; followed by one ply of Pro Fleece laid in the wet base coat; followed by a top coat of Terapro Base Resin roller applied at a minimum rate of 0.27 lb/ft^2 onto the embedded Pro Fleece.
Surfacing:	N/A
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Maximum Design Pressure:	**-202.5 psf.** (See General Limitation #9)

Deck Type 7I:	Recover, Non-Insulated
Deck Description:	Concrete or Steel
System Type F(5):	Siplast system applied directly to existing roof covering.

All General and System Limitations apply.

Primer:	(Optional) Apply Pro Primer R Resin to the properly prepared existing asphaltic BUR roof covering system at 0.082 lb/ft^2.
Membrane:	Base coat of Terapro Base Resin roller applied at a minimum rate of 0.42 lb/ft^2 onto the primer; followed by one ply of Pro Fleece laid in the wet base coat; followed by a top coat of Terapro Base Resin roller applied at a minimum rate of 0.27 lb/ft^2 onto the embedded Pro Fleece.
Surfacing:	N/A
Integrity Test:	Required, and shall be performed in accordance with ASTM D 5957. Water maybe maintained for a period longer than 24 hours if required.
Maximum Design Pressure:	**-262.5 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. A copy of the integrity test report described herein in accordance with ASTM D5957 shall be provided to the Building Official for review at time of final inspection.
3. Contractor shall submit to the Building Official for review the system specifications and details. Submission of these documents, as well as the proper application and installation of all materials shall be the sole responsibility of the contractor.
4. Flashings shall be installed according to the manufacturers published standard details, specific details, approved by Siplast and shall be submitted to the Building Official for review.
5. All work shall be performed by a Contractor licensed to do roofing/waterproofing and be a Manufacturer Trained 'Qualified Applicator' approved and licensed by Siplast. Siplast shall supply a list of approved applicators to the authority having jurisdiction.
6. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and the wind load requirements of applicable Building Code.
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. A non-skid surfacing is required for all pedestrian areas, plaza decks or balconies.
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 approved products listed herein shall be labeled and shall bear the imprint or identifiable marking of the manufacturer's name or logo and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below

MIAMI-DADE COUNTY APPROVED

END OF THIS ACCEPTANCE