MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Tremco Inc.
3735 Green Road
Beachwood, OH 44122

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Tremco Modified Bitumen Roofing 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 NOA No. 01-0515.06 and consists of pages 1 through 12.
The submitted documentation was reviewed by Jorge L. Acebo

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	SBS Modified Bitumen
Deck Type:	Gypsum
Maximum Design Pressure	**-45 psf**
Fire Classification:	See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specifications	Product Description
BURMastic Base Sheet Adhesive	5 or 55 gallons	Proprietary	Asphalt based sheet adhesive.
BURmastic Adhesive	5 or 55 gallon	Proprietary	Cold applied ply sheet and surfacing adhesive.
BURmastic Composite Ply	3' x 72'	ASTM D 4601 Type II	Asphalt coated, polyester/fiberglass reinforced base/ply sheet.
BURmastic FR	5 or 55 gallon	Proprietary	Cold applied, fire rated surfacing adhesive.
BURmastic Glass Ply	3' x 72'	ASTM D 4601 Type II	Asphalt coated, fiberglass reinforced base/ply sheet.
BURmastic Glass Ply	3' x 108'	ASTM D 4601 Type II	Asphalt coated, fiberglass reinforced base/ply sheet.
Double Duty Aluminum	5 gallons	ASTM D 2824	Aluminum pigmented roof coating.
Fas-n-Free Adhesive	System	Proprietary	One part, solvent free insulation adhesive.
High Build Reflective Coating	5 and 55 gallons	Proprietary	High solids, water-based, elastomeric coating.
One Coat Aluminum	5 and 55 gallons	ASTM D 2824 Type III	Asphalt based, fibered aluminum roof coating.
Polarcote FR	5 and 55 gallons	Proprietary	Fire retardant acrylic/polymer blend emulsion.
PolyTHERM Roofing Ply	39 ¾" x 318'	Proprietary	Non-woven, heat resistant polyester ply sheet.
POWERply Standard FR	39 ½" x 34.5'	ASTM D 6163	Fiberglass reinforced modified-bitumen membrane.

Product	Dimensions	Test Specifications	Product Description
POWERply Premium FR	39 ½" x 34.5'	ASTM D 6162	Composite reinforced modified-bitumen membrane.
POWERply Supreme HT FR	39 ½" x 34.5'	ASTM D 6162	Composite reinforced modified-bitumen membrane.
POWERply Premium Smooth	39 ½" x 51.5'	ASTM D 6162	Composite reinforced modified-bitumen membrane.
POWERply Supreme Smooth	39 ½" x 34.5'	ASTM D 6162	Composite reinforced modified-bitumen membrane.
POWERply HE FR	39 ½" x 34.5'	ASTM D 6164	Polyester reinforced modified-bitumen membrane.
POWERply Standard Cold Adhesive	5 and 55 gallon containers	Proprietary	Cold applied ply sheet and membrane adhesive.
POWERply Modified Hot Melt Adhesive	60 lb. Keg	Proprietary	Polymer modified hot melt adhesive.
POWERply IV	5 sq./roll	ASTM D 2178 Type IV	Type IV asphalt impregnated glass felt for use in conventional and modified bitumen built up roofing.
POWERply VI	5 sq./roll	ASTM D 2178 Type VI	Type IV asphalt impregnated glass felt for use in conventional and modified bitumen built up roofing.
Premium III	100 lb. keg	ASTM D 312	Premium grade Type III asphalt.
Premium IV	100 lb. keg	ASTM D 312	Premium grade Type IV asphalt.
THERMastic Adhesive	60 lb. Containers	Proprietary	Polymer modified hot melt adhesive.
THERMglass Type IV	3' x 180'	ASTM D 2178 Type IV	Type IV asphalt impregnated glass felt.
THERMglass Type VI	3' x 180'	ASTM D 2178 Type VI	Type VI asphalt impregnated glass felt.
Tremlastic	5 or 55gallon	Proprietary	Polymer modified asphalt emulsion.
Tremlastic S	5 or 55gallon	Proprietary	Non-fibered, polymer modified asphalt emulsion.
TREMprime ™ Q.D.	1,5 or 55 gallon containers	ASTM D 41	Asphalt based roofing primer.
Tremprime ® WB	5 gallon container	Proprietary	Water based roofing primer.

APPROVED INSULATIONS:

TABLE 2

Product	Dimensions	Test Specification	Product Description	Manufacturer
ACFoam I, ACFoam II	Various	TAS 110	Polyisocyanurate foam insulation	Atlas Energy Products (with current NOA)
High Density Wood Fiberboard	Various	TAS 110	Wood fiber insulation board	Generic (with current NOA)
Perlite Insulation	Various	TAS 110	Perlite insulation board	Generic (with current NOA)
Ultra/M-II ISO/glas	Various	TAS 110	Polyisocyanurate foam insulation	Homasote Co. (with current NOA)
Fiber Glass	Various	TAS 110	Glass fiber board	Johns Manville Corp. (with current NOA)
Multi-Max, Multi-Max FA	Various	TAS 110	Polyisocyanurate foam insulation	R-Max (with current NOA)

APPROVED FASTENERS:

Table 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Rawlite	Insulation and Base sheet Fastener	Various	Powers Fasteners, Inc.
2.	Polymer Gyptec	Insulation and Base sheet Fastener	Various	ITW Buildex
3.	NTB Magnum	Insulation and Base sheet Fastener	Various	Johns Manville

EVIDENCE SUBMITTED:

Test agency	Test Identifier	Test Name/Report	Date
Factory Mutual Research Corporation	1994 FMRC	Current Insulation Fastening Requirements	01/01/94
Factory Mutual Research Corporation	J.I. #2Y9A5.AM	Class 4470	11/13/95
Factory Mutual Research Corporation	J.I. #2D1A8.AM	Class 4470	07/27/2000
Factory Mutual Research Corporation	J.I. #0D0A9.AM	Class 4470	08/01/2000
PRI Asphalt Technologies, Inc.	TRE-15-02-01	Physical Properties	05/25/99
Underwriters Laboratories, Inc.	R6692	Fire Classification Compliance	01/01/94

APPROVED ASSEMBLIES:

Membrane Type: SBS

Deck type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(1): Anchor sheet mechanically fastened; one or more layers of insulation adhered with approved asphalt.

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
Perlite Minimum 1" thick	**N/A**	**N/A**

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Fiberglas Minimum $^{15}/_{16}$" thick	**N/A**	**N/A**
Perlite Minimum 1" thick	**N/A**	**N/A**

Note: All insulation shall be adhered to the anchor sheet in THERMastic at 2.5 gal./sq. or in full mopping of approved hot 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.

Anchor Sheet: One ply of BURMastic Composite Ply or BURMastic Glass Ply mechanically fastened to the deck as detailed below.

Fastening: Fasten anchor sheet with approved fasteners at a 4" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.

Base Sheet: (Optional) One ply of Poly THERM or BURMastic Composite Ply adhered to the insulated substrate with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Ply Sheet: (Optional) Two plies of THERMglass adhered to the insulated substrate with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Membrane: THERM MB 3G25 or THERM MB 3G25 FR adhered to the insulated substrate or base sheet with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15% or THERM MB 2C60 adhered to the ply sheet with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%

Surfacing: Use one of the following surfacing.

1. Gravel or slag applied at 300 lbs. or 400 lbs., respectively, in THERMastic or type III asphalt at an application rate of 60 lb./sq. ± 15%.
2. Two coats of FireKote or Weatherbuster at 1 gal./sq..
3. A two part surfacing consisting of 4-5 gal./sq. of Tremlastic and a second coat of FireKote or Double Duty Aluminum at 1 gal./sq..
4. A two part surfacing consisting of two coats of FireKote at 1 gal./sq., and a final coat of Improved Polarcote at 1 gal./sq.

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

Membrane Type: SBS

Deck type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(2): Anchor sheet mechanically fastened; one or more layers of insulation adhered with approved asphalt.

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-I, Ultra/M-II Iso-Glas, Permalite Isolite, ACFoam-II, Hy-Therm White Line, Hy-Therm AP, UltraGard Gold, Multi-Max		
Minimum 1.5" thick	**N/A**	**N/A**
Fiberglas		
Minimum $^{15}/_{16}$" thick	**N/A**	**N/A**

Note: Base layers of insulation shall be bonded to anchor sheet with ½" ribbons of FAS-n-FREE adhesive applied at 1.5 gal./sq. for perlite and polyisocyanurate and 2 gal./sq. for fiberglas insulation.

Top Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
Fiberglas		
Minimum $^{15}/_{16}$" thick	**N/A**	**N/A**
Perlite		
Minimum 1" thick	**N/A**	**N/A**

Note: Top layer of insulation shall be bonded with ½" ribbons of FAS-n-FREE adhesive applied at 1.5 gal./sq. for perlite and polyisocyanurate and 2 gal./sq. for fiberglas insulation.

Anchor Sheet: One ply of BURMastic Composite Ply or BURMastic Glass Ply mechanically fastened to the deck as detailed below.

Fastening: Fasten anchor sheet with approved fasteners at a 4" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.

Base Sheet: (Optional) One ply of Poly THERM or BURMastic Composite Ply adhered to the insulated substrate with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Ply Sheet: (Optional) Two plies of THERMglass adhered to the insulated substrate with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Membrane: THERM MB 3G25 or THERM MB 3G25 FR adhered to the insulated substrate or base sheet with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15% or THERM MB 2C60 adhered to the ply sheet with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%

Surfacing: Use one of the following surfacing.

1. Gravel or slag applied at 300 lbs. or 400 lbs., respectively, in THERMastic or type III asphalt at an application rate of 60 lb./sq. ± 15%.
2. Two coats of FireKote or Weatherbuster at 1 gal./sq..
3. A two part surfacing consisting of 4-5 gal./sq. of Tremlastic and a second coat of FireKote or Double Duty Aluminum at 1 gal./sq..
4. A two part surfacing consisting of two coats of FireKote at 1 gal./sq., and a final coat of Improved Polarcote at 1 gal./sq.

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

Membrane Type: SBS

Deck type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type B: Base layer of insulation mechanically fastened, top layer of insulation adhered with approved asphalt.

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 Minimum 1.3" thick	**1, 2, 3**	**1:2.67 ft^2**
ACFoam-I, Ultra, Hy-Therm Pyrox Minimum 1.3" thick	**1, 2, 3**	**1:3 ft^2**
E'NRGY 2Plus Minimum 1.5" thick	**1, 2, 3**	**1:4 ft^2**
Perlite Minimum ¾" thick	**1, 2, 3**	**1:2 ft^2**
Fiberglas Minimum $^{15}/_{16}$" thick	**1, 2, 3**	**1:2.67 ft^2**

Note: Fastener density assumes compliance with Roofing Application Standard RAS 117; field withdrawal resistance testing shall be carried out in accordance with TAS 105 to confirm compliance (see limitations). See Roofing Application Standard RAS 117 for fastener details.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Fiberglas Minimum $^{15}/_{16}$" thick	**N/A**	**N/A**
Perlite Minimum ¾" thick	**N/A**	**N/A**

Note: Apply top layer of insulation in a full mopping of any mopping asphalt at an application rate, for the appropriate slope, of 25 lbs./sq. ± 15%. Please refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Base Sheet: (Optional) One ply of Poly THERM or BURmastic Composite Ply adhered to the insulated substrate with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Ply Sheet: (Optional) Two plies of THERMglass adhered to the insulated substrate with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Membrane: THERM MB 3G25 or THERM MB 3G25 FR adhered to the insulated substrate or base sheet with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15% or THERM MB 2C60 adhered to the ply sheet with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Surfacing: Use one of the following surfacing.

1. Gravel or slag applied at 300 lbs. or 400 lbs., respectively, in THERMastic or type III asphalt at an application rate of 60 lb./sq. ± 15%.
2. Two coats of FireKote or Weatherbuster at 1 gal./sq..
3. A two part surfacing consisting of 4-5 gal./sq. of Tremlastic and a second coat of FireKote or Double Duty Aluminum at 1 gal./sq..
4. A two part surfacing consisting of two coats of FireKote at 1 gal./sq., and a final coat of Improved Polarcote at 1 gal./sq.

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

Membrane Type: SBS

Deck type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type C(1): All layers of insulation simultaneously fastened.

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
Perlite		
Minimum ¾" thick	**N/A**	**N/A**
Fiberglas		
Minimum $^{15}/_{16}$" 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
Fiberglas		
Minimum $^{15}/_{16}$" thick	**1**	**1:2.67 ft^2**
Perlite		
Minimum ¾" thick	**1**	**1:2 ft^2**

Note: Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation panels listed are minimum sizes and dimensions; if larger panel are used the number of fasteners per board shall be increased maintaining the same fastener density (see Roofing Application Standard RAS 117 for fasteners details).

Base Sheet: (Optional) One ply of Poly THERM or BURmastic Composite Ply adhered to the insulated substrate with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Ply Sheet: (Optional) Two plies of THERMglass adhered to the insulated substrate with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Membrane: THERM MB 3G25 or THERM MB 3G25 FR adhered to the insulated substrate or base sheet with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15% or THERM MB 2C60 adhered to the ply sheet with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Surfacing: Use one of the following surfacing.

1. Gravel or slag applied at 300 lbs. or 400 lbs., respectively, in THERMastic or type III asphalt at an application rate of 60 lb./sq. ± 15%.
2. Two coats of FireKote or Weatherbuster at 1 gal./sq..
3. A two part surfacing consisting of 4-5 gal./sq. of Tremlastic and a second coat of FireKote or Double Duty Aluminum at 1 gal./sq..
4. A two part surfacing consisting of two coats of FireKote at 1 gal./sq., and a final coat of Improved Polarcote at 1 gal./sq.

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

Membrane Type: SBS

Deck type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type C(2): All layers of insulation simultaneously fastened.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Base Sheet: (Optional) One ply of Poly THERM or BURmastic Composite Ply adhered to the insulated substrate with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Ply Sheet: (Optional) Two plies of THERMglass adhered to the insulated substrate with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Membrane: THERM MB 3G25 or THERM MB 3G25 FR adhered to the insulated substrate or base sheet with THERMastic, Premium III or type III asphalt at an application rate of 32 lb./sq. ± 15% or THERM MB 2C60 adhered to the ply sheet with THERMastic, Premium III, Premium IV or type III asphalt at an application rate of 32 lb./sq. ± 15%.

Surfacing: Use one of the following surfacing.

1. Gravel or slag applied at 300 lbs. or 400 lbs., respectively, in THERMastic or type III asphalt at an application rate of 60 lb./sq. ± 15%.
2. Two coats of FireKote or Weatherbuster at 1 gal./sq..
3. A two part surfacing consisting of 4-5 gal./sq. of Tremlastic and a second coat of FireKote or Double Duty Aluminum at 1 gal./sq..
4. A two part surfacing consisting of two coats of FireKote at 1 gal./sq., and a final coat of Improved Polarcote at 1 gal./sq.

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

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 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. 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.)**

END OF THIS ACCEPTANCE