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 over Lightweight Concrete 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. 06-0405.04 and consists of pages 1 through 14.
The submitted documentation was reviewed by Alex Tigera.

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	SBS Modified Bitumen
Deck Type:	Lightweight Concrete
Maximum Design Pressure	**-105 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 retardent 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.	N/A	N/A	N/A	N/A

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
Momentum Technologies, Inc.	DX12K5A	ASTM D 6163	11/07/05
Momentum Technologies, Inc.	CX13K5A	ASTM D 6162	11/07/05
Momentum Technologies, Inc.	DX11K5A	ASTM D 6164	11/07/05

APPROVED ASSEMBLIES:

Membrane Type: SBS

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Cellular or Aggregate Lightweight 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**
Pelite		
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 Ventsulation mechanically fastened to the deck as detailed below.

Fastening: Fasten anchor sheet with ES FM 60 Base Ply fasteners and FM 30 Discs or FM 90 Base Ply fasteners at a 4" side lap 8" o.c. and two rows staggered in the center of the sheet 18" o.c.

Base Sheet: (Optional) One or more plies of BURmastic Composite Ply, BURmastic Glass Ply, BURmastic Glass Ply28#, POWERply HT Base Sheet, POWERply HE Base Sheet or POWERply Heavy Duty Base Sheet adhered with THERmastic, POWERply Modified Hot Melt, Premium III, Premium IV or type III asphalt.

Ply Sheet: (Optional) Two or more plies of THERMglass Type IV, Type VI, POWERply Type IV, Type VI, Polytherm or approved Type IV or Type VI ply sheet adhered with THERMastic, POWERply Modified Hot Melt, Premium III, Premium IV or Type III asphalt.

Membrane: POWERply Standard FR, POWERply Premium FR, POWERply Supreme HT FR, POWERply HE FR, POWERply Premium Smooth or POWERply Supreme Smooth adhered to with THERMastic, POWERply Modified Hot Melt, Premium III, and Premium IV or Type III asphalt.

Cap Sheet: (Optional) POWERply Supreme HT FR, POWERply HE FR, POWERply Standard FR, POWERply Premium FR adhered with POWER Ply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Surfacing: (Optional: Required over Smooth applications) Install one of the following:

1. Gravel (400 lbs/sq.) or slag (300 lbs/sq.) in a flood coat of POWERply Modified Cold Melt Adhesive at a rate of 5-6.5 gal./sq. or Tremlastic or Tremlastic S at a rate of 4-5 gal./sq.
2. Tremlastic or Tremlastic S at a rate of 4-5 gal./sq. followed by:
   A. Double Duty Aluminum at rate of ¾ gal./sq.
   B. Two coats of Polarcote FR at a rate of 1 gal./sq. per coat.
   C. One coat Aluminum at a rate of 2-2.5 gal./sq.
   D. Minimum 60 lbs #11 granules into wet Tremlastic.
3. High Build Reflective Coating at a rate of 4 gal./sq.
4. One Coat Aluminum at a rate of 2-2.5 gal./sq.

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

Membrane Type: SBS

Deck Type 4I: Lightweight Concrete, Insulated

Deck Description: Cellular or Aggregate Lightweight 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, White Line, 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**
Pelite		
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 ES FM 60 Base Ply fasteners and FM 30 Discs or FM 90 Base Ply fasteners at a 4" side lap 8" o.c. and two rows staggered in the center of the sheet 18" o.c..

Base Sheet: (Optional) One or more plies of BURmastic Composite Ply, BURmastic Glass Ply, BURmastic Glass Ply28#, POWERply HT Base Sheet, POWERply HE Base Sheet or POWERply Heavy Duty Base Sheet adhered with THERmastic, POWERply Modified Hot Melt, Premium III, Premium IV or type III asphalt.

Ply Sheet: (Optional) Two or more plies of THERMglass Type IV, Type VI, POWERply Type IV, Type VI, Polytherm or approved Type IV or Type VI ply sheet adhered with THERMastic, POWERply Modified Hot Melt, Premium III, Premium IV or Type III asphalt.

Membrane: POWERply Standard FR, POWERply Premium FR, POWERply Supreme HT FR, POWERply HE FR, POWERply Premium Smooth or POWERply Supreme Smooth adhered to with THERMastic, POWERply Modified Hot Melt, Premium III, Premium IV or Type III asphalt.

Cap Sheet: (Optional) POWERply Supreme HT FR, POWERply HE FR, POWERply Standard FR, POWERply Premium FR adhered with POWER Ply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Surfacing: (Optional: Required over Smooth applications) Install one of the following:

1. Gravel (400 lbs/sq.) or slag (300 lbs/sq.) in a flood coat of POWERply Modified Cold Melt Adhesive at a rate of 5-6.5 gal./sq. or Tremlastic or Tremlastic S at a rate of 4-5 gal./sq.
2. Tremlastic or Tremlastic S at a rate of 4-5 gal./sq. followed by:
   A. Double Duty Aluminum at rate of ¾ gal./sq.
   B. Two coats of Polarcote FR at a rate of 1 gal./sq. per coat.
   C. One coat Aluminum at a rate of 2-2.5 gal./sq.
   D. Minimum 60 lbs #11 granules into wet Tremlastic.
3. High Build Reflective Coating at a rate of 4 gal./sq.
4. One Coat Aluminum at a rate of 2-2.5 gal./sq.

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

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-insulated

System Type E (1): Base sheet mechanically fastened.

Deck Description: Cellular or Aggregate Lightweight Concrete

All General and System Limitations apply.

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

Fastening: Fasten anchor sheet with ES FM 60 Base Ply fasteners and FM 30 Discs or FM 90 Base Ply fasteners at a 4" side lap 8" o.c. and two rows staggered in the center of the sheet 18" o.c.

Membrane: POWERply Standard FR, POWERply Premium FR, POWERply Supreme HT FR, POWERply HE FR, POWERply Premium Smooth or POWERply Supreme Smooth adhered to with THERMastic, POWERply Modified Hot Melt, Premium III, Premium IV or Type III asphalt.

Cap Sheet: (Optional) POWERply Supreme HT FR, POWERply HE FR, POWERply Standard FR, POWERply Premium FR adhered with POWER Ply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Surfacing: (Optional: Required over Smooth applications) Install one of the following:

1. Gravel (400 lbs/sq.) or slag (300 lbs/sq.) in a flood coat of POWERply Modified Cold Melt Adhesive at a rate of 5-6.5 gal./sq. or Tremlastic or Tremlastic S at a rate of 4-5 gal./sq.
2. Tremlastic or Tremlastic S at a rate of 4-5 gal./sq. followed by:
   A. Double Duty Aluminum at rate of ¾ gal./sq.
   B. Two coats of Polarcote FR at a rate of 1 gal./sq. per coat.
   C. One coat Aluminum at a rate of 2-2.5 gal./sq.
   D. Minimum 60 lbs #11 granules into wet Tremlastic.
3. High Build Reflective Coating at a rate of 4 gal./sq.
4. One Coat Aluminum at a rate of 2-2.5 gal./sq.

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

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Elastizell Lightweight Insulating Concrete

System Type E (2): Base sheet mechanically fastened.

All General and System Limitations apply.

Deck : Min. 22 ga., Type B steel decking over ¼" thick steel supports spaced max. 5 ft. o.c. attached 6" o.c. using min. 5/8" diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 24" o.c. using Traxx/1 fasteners. Steel deck is covered with a Elastizell cellular lightweight concrete pour consisting of a 1/8" slurry coat, min. 1" thick Holey Board and a min. 2" thick top coat.

Base Sheet: One ply of BURmastic Composite Ply or Ventsulation mechanically to deck fastened as described below.

Fasteners: Olympic 1.75" Base Sheet Fasteners at 7" o.c. at the sidelap which shall be 4" and two staggered rows 7" o.c. in the field.

Ply Sheet: One or more plies of BURmastic Composite Ply, BURmastic Glass Ply, BURmastic Glass Ply 28#, POWERply HT Base Sheet, POWERply HE Base Sheet or POWERply Heavy Duty Base Sheet adhered with POWERply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.
Or
Two or more plies of THERMglass Type IV, Type VI, POWERply Type IV, Type VI, Polytherm or approved Type IV or Type VI ply sheet adhered with THERMastic, POWERply Modified Hot Melt, Premium III, Premium IV or Type III asphalt.

Membrane: POWERply Standard FR, POWERply Premium FR, POWERply Supreme HT FR, POWERply HE FR, POWERply Premium Smooth or POWERply Supreme Smooth adhered to with THERMastic, POWERply Modified Hot Melt, Premium III, Premium IV or Type III asphalt.

Cap Sheet: (Optional) POWERply Supreme HT FR, POWERply HE FR, POWERply Standard FR, POWERply Premium FR adhered with POWER Ply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Surfacing: (Optional: Required over Smooth applications) Install one of the following:

1. Gravel (400 lbs/sq.) or slag (300 lbs/sq.) in a flood coat of POWERply Modified Cold Melt Adhesive at a rate of 5-6.5 gal./sq. or Tremlastic or Tremlastic S at a rate of 4-5 gal./sq.
2. Tremlastic or Tremlastic S at a rate of 4-5 gal./sq. followed by:
   A. Double Duty Aluminum at rate of ¾ gal./sq.
   B. Two coats of Polarcote FR at a rate of 1 gal./sq. per coat.
   C. One coat Aluminum at a rate of 2-2.5 gal./sq.
   D. Minimum 60 lbs #11 granules into wet Tremlastic.
3. High Build Reflective Coating at a rate of 4 gal./sq.
4. One Coat Aluminum at a rate of 2-2.5 gal./sq.

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

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Elastizell Lightweight Insulating Concrete

System Type E (3): Base sheet mechanically fastened.

All General and System Limitations apply.

Deck : Min. 22 ga., Type B steel decking over ¼" thick steel supports spaced max. 5 ft. o.c. attached 6" o.c. using min. 5/8" diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 24" o.c. using Traxx/1 fasteners. Steel deck is covered with a Elastizell cellular lightweight concrete pour consisting of a 1/8" slurry coat, min. 1" thick Holey Board and a min. 2" thick top coat.

Base Sheet: One ply of BURmastic Composite Ply or Ventsulation mechanically to deck fastened as described below.

Fasteners: Olympic 1.75" Base Sheet Fasteners at 7" o.c. at the sidelap which shall be 4" and two staggered rows 7" o.c. in the field.

Ply Sheet: One or more plies of BURmastic Composite Ply, BURmastic Glass Ply, BURmastic Glass Ply28#, POWERply HT Base Sheet, POWERply HE Base Sheet, POWERply Heavy Duty Base Sheet or approved G2 fiberglass base sheet adhered with POWERply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Membrane: POWERply Standard FR, POWERply Premium FR, POWERply Supreme HT FR, POWERply HE FR, POWERply Premium Smooth or POWERply Supreme Smooth adhered with POWERply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Cap Sheet: (Optional) POWERply Supreme HT FR, POWERply HE FR, POWERply Standard FR, POWERply Premium FR adhered with POWER Ply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Surfacing: (Optional: Required over Smooth applications) Install one of the following:

1. Gravel (400 lbs/sq.) or slag (300 lbs/sq.) in a flood coat of POWERply Modified Cold Melt Adhesive at a rate of 5-6.5 gal./sq. or Tremlastic or Tremlastic S at a rate of 4-5 gal./sq.
2. Tremlastic or Tremlastic S at a rate of 4-5 gal./sq. followed by:
   A. Double Duty Aluminum at rate of ¾ gal./sq.
   B. Two coats of Polarcote FR at a rate of 1 gal./sq. per coat.
   C. One coat Aluminum at a rate of 2-2.5 gal./sq.
   D. Minimum 60 lbs #11 granules into wet Tremlastic.
3. High Build Reflective Coating at a rate of 4 gal./sq.
4. One Coat Aluminum at a rate of 2-2.5 gal./sq.

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

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: LWC Products Inc. Lightweight Insulating Concrete

System Type E (4): Base sheet mechanically fastened.

All General and System Limitations apply.

Deck : Min. 22 ga., Type B steel decking over ¼" thick steel supports spaced max. 5 ft. o.c. attached 6" o.c. using min. 5/8" diameter puddle welds. Deck side laps are attached 12" o.c. using #12 Hex Washer Head screws. Steel deck is covered with LWC Products, Inc. lightweight insulating concrete with minimum 300psi strength, pour with a min. 2" thickness.

Base Sheet: One ply of BURmastic Composite Ply or Ventsulation mechanically to deck fastened as described below.

Fasteners: Olympic 1.75" Base Sheet Fasteners at 7" o.c. at the sidelap which shall be 4" and two staggered rows 7" o.c. in the field.

Ply Sheet: Two or more plies of POWER Ply Type IV adhered with POWER Ply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Membrane: POWERply Standard FR, POWERply Premium FR, POWERply Supreme HT FR, POWERply HE FR, POWERply Premium Smooth or POWERply Supreme Smooth adhered with POWERply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Cap Sheet: (Optional) POWERply Supreme HT FR, POWERply HE FR, POWERply Standard FR, POWERply Premium FR adhered with POWER Ply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Surfacing: (Optional: Required over Smooth applications) Install one of the following:

1. Gravel (400 lbs/sq.) or slag (300 lbs/sq.) in a flood coat of POWERply Modified Cold Melt Adhesive at a rate of 5-6.5 gal./sq. or Tremlastic or Tremlastic S at a rate of 4-5 gal./sq.
2. Tremlastic or Tremlastic S at a rate of 4-5 gal./sq. followed by:
   A. Double Duty Aluminum at rate of ¾ gal./sq.
   B. Two coats of Polarcote FR at a rate of 1 gal./sq. per coat.
   C. One coat Aluminum at a rate of 2-2.5 gal./sq.
   D. Minimum 60 lbs #11 granules into wet Tremlastic.
3. High Build Reflective Coating at a rate of 4 gal./sq.
4. One Coat Aluminum at a rate of 2-2.5 gal./sq.

Maximum Design Pressure: **-105 psf** (See General Limitation #7).

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: LWC Products Inc. Lightweight Insulating Concrete

System Type E (5): Base sheet mechanically fastened.

All General and System Limitations apply.

Deck : Min. 22 ga. X 1.5" deep corrugations, Type BV, 0.5% vented, G-90 Finish steel decking over ¼" thick steel supports spaced max. 5 ft. o.c. attached 6" o.c. using min. #14 self drilling (SD) Tek Screws. Deck side laps are attached 24" o.c. using #14 self drilling (SD) Tek screws. Steel deck is covered with LWC Products, Inc. lightweight insulating concrete with minimum 300psi strength, pour consisting of a 1/8" slurry coat, min 1" thick insulfoam EPS Hol-E-Board and a min. 2" top coat over the EPS insulfoam.

Base Sheet: One ply of BURmastic Composite Ply or Ventsulation mechanically to deck fastened as described below.

Fasteners: Olympic 1.75" Base Sheet Fasteners at 7" o.c. at the sidelap which shall be 4" and two staggered rows 7" o.c. in the field.

Ply Sheet: Two or more plies of POWER Ply APP base torch applied to the base sheet with a 4" side lap.

Membrane: POWERply APP FR Torch applied to the Ply Sheet with a 4" side lap.

Cap Sheet: (Optional) POWERply Supreme HT FR, POWERply HE FR, POWERply Standard FR, POWERply Premium FR adhered with POWER Ply Standard Cold Adhesive at a rate of 1.5-2 gal./sq.

Surfacing: (Optional: Required over Smooth applications) Install one of the following:

1. Gravel (400 lbs/sq.) or slag (300 lbs/sq.) in a flood coat of POWERply Modified Cold Melt Adhesive at a rate of 5-6.5 gal./sq. or Tremlastic or Tremlastic S at a rate of 4-5 gal./sq.
2. Tremlastic or Tremlastic S at a rate of 4-5 gal./sq. followed by:
   a. Double Duty Aluminum at rate of ¾ gal./sq.
   b. Two coats of Polarcote FR at a rate of 1 gal./sq. per coat.
   c. One coat Aluminum at a rate of 2-2.5 gal./sq.
   d. Minimum 60 lbs #11 granules into wet Tremlastic.
3. High Build Reflective Coating at a rate of 4 gal./sq.
4. One Coat Aluminum at a rate of 2-2.5 gal./sq.

Maximum Design Pressure: **-90 psf** (See General Limitation #7).

LIGHTWEIGHT CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 250 psi.

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. 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.)**

END OF THIS ACCEPTANCE