



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

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

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## NOTICE OF ACCEPTANCE (NOA)

**Tremco CPG 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 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: Tremco Modified Bitumen Roofing Systems 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 revises NOA No. 22-0228.26 and consists of pages 1 through 28.  
The submitted documentation was reviewed by Alex Tigera.

06/13/24



NOA No.: 22-0726.03  
Expiration Date: 07/12/26  
Approval Date: 06/13/24  
Page 1 of 28

## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** Modified Bitumen  
**Material:** SBS  
**Deck Type:** Lightweight Concrete  
**Maximum Design Pressure** -127.5 psf

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
BURmastic Adhesive	5 or 55 gallons	Proprietary	Cold applied ply sheet and surfacing adhesive.
BURmastic Adhesive SF	5 gallons	Proprietary	Cold applied ply sheet adhesive.
BURmastic Adhesive MC	5 gallons	Proprietary	Single-component, moisture cured urethane, solvent free cold process asphalt adhesive.
BURmastic Composite Ply HT	3' x 72'	ASTM D 4601 Type II	Asphalt coated, polyester/fiberglass reinforced base/ply sheet.
BURmastic Glass Ply	3' x 72'	ASTM D 4601 Type II	Asphalt coated, fiberglass reinforced base/ply sheet.
FAS-N-FREE	System	Proprietary	One part, solvent free insulation adhesive.
POWERply Standard FR	39' ½" x 34.5'	ASTM D 6163	Fiberglass reinforced modified-bitumen membrane.
POWERply Heavy Duty Base Sheet	36" x 36'	ASTM D 6163	Fiberglass reinforced modified-bitumen membrane.
POWERply Standard Smooth HW	39' ¾" x 32' 10"	ASTM D 6163	A glass reinforced SBS modified bitumen base sheet for heat welded applications.
POWERply Standard FR HW	39' ¾" x 32' 10"	ASTM D 6163	A fire resistant, glass reinforced SBS modified bitumen membrane surfaced with granules for use in heat weld applications.
POWERply Endure 100 Smooth	36" x 56' 8"	ASTM D 6163	Fiberglass reinforced, smooth surfaced, heat-resistant modified bitumen membrane.
POWERply Endure 200 Smooth	39' ¾" x 51' 6"	ASTM D 6164	Non-woven reinforced, smooth surfaced, polyester modified bitumen membrane.
POWERply Endure 300 Smooth	39' ¾" x 51' 6"	ASTM D 6162	Composite reinforced, smooth surfaced, modified bitumen membrane.
POWERply Endure 320 Smooth	39' ¾" x 51' 6"	ASTM D 6162	Composite reinforced, smooth surfaced, modified bitumen membrane.



POWERply Endure 100 FR	36" x 38'	ASTM D 6163	Fiberglass reinforced, granule surfaced, heat-resistant modified bitumen membrane.
POWERply Endure 200 FR	39' 3/8" x 34' 5"	ASTM D 6164	Non-woven reinforced, granule surfaced, polyester modified bitumen membrane.
POWERply Endure 300 FR	39' 3/8" x 34' 5"	ASTM D 6162	Composite reinforced, granule surfaced, modified bitumen membrane.
POWERply Endure 320 FR	39' 3/8" x 34' 5"	ASTM D 6162	Composite reinforced, smooth surfaced, modified bitumen membrane.
POWERply Standard Cold Adhesive	5 and 55 gallons	Proprietary	Cold applied ply sheet and membrane adhesive.
Premium IV	100 lb. keg	ASTM D 312	Premium grade Type IV asphalt.
THERMastic 80	60 lb. Containers	Proprietary	Polymer modified hot melt adhesive.
THERMglass Type IV	36" x 180'	ASTM D 2178 Type IV	Type IV asphalt impregnated glass felt.
THERMglass Premium VI	36" x 180'	ASTM D 2178 Type VI	Type VI asphalt impregnated glass felt.
TREMprime WB primer	5 gallons	Proprietary	Water based roofing primer.
Tremco LR Adhesive	1.5 liters	Proprietary	One part, solvent free adhesive used for adhering approved insulations to approved substrates.
Tremco LR Adhesive (BG)	1.5 liters	Proprietary	One part, solvent free adhesive used for adhering approved insulations to approved substrates.
Tremco Low Rise Foam Insulation Adhesive (BG)	1.5 liters	Proprietary	One part, solvent free adhesive used for adhering approved insulations to approved substrates.
POWERply Endure BIO Adhesive	Part A – 5 gallons Part B – 1 gallon	Various	Two component, low odor, bio based polyurethane adhesive.
POWERply Endure BIO Adhesive TF	Part A – 3.5 gallons Part B – 0.5 gallon	Various	Two component, low odor, bio based polyurethane adhesive.

**APPROVED INSULATIONS:**

**TABLE 2**

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
ACFoam-II	Various	TAS 110	Polyisocyanurate foam insulation	Atlas Roofing Corporation
Ultra-Max	Various	TAS 110	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation
Multi-Max FA-3	Various	TAS 110	Polyisocyanurate foam insulation	Rmax, A Business Unit of Sika Corporation



**APPROVED INSULATIONS:**

**TABLE 2**

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
DensDeck Prime	Various	TAS 110	Water resistant gypsum board	Georgia-Pacific Gypsum, LLC
DEXcell FA Glass Mat Roof Board	Various	TAS 110	Heavy duty coated glass mat	National Gypsum Company
SECUROCK Gypsum-Fiber Roof Board	Various	TAS 110	Rigid, gypsum based board	United States Gypsum Corp.
SECUROCK Cement Roof Board	Various	TAS 110	Gypsum board	United States Gypsum Corp.
STURDY-DEK Asphaltic Coverboard	Various	TAS 110	Semi-rigid asphaltic board	Blue Ridge Fiberboard, Inc.
Trisotech G	Various	TAS 110	Polyisocyanurate foam insulation	Tremco, Inc.

**APPROVED FASTENERS / ADHESIVES:**

**TABLE 3**

<u>Fastener Number</u>	<u>Product Name</u>	<u>Product Description</u>	<u>Dimensions</u>	<u>Manufacturer (With Current NOA)</u>
1.	Trufast FM-90 Base Sheet Fastener	Base ply fastening systems for lightweight concrete decks.	2.7” head 1.7” long	Altenloh, Brinck & Co. U.S., Inc.
2.	CR Base Sheet Fastener (1.7”)	Base ply fastening systems for lightweight concrete decks.	1.125” head 1.7” long	OMG, Inc.
3.	Trufast VERSA-FAST Fastener	Base ply fastening systems for lightweight concrete decks.	Various	Altenloh, Brinck & Co. U.S., Inc.
4.	Trufast VERSA-FAST Metal Plate	Base ply fastening systems for lightweight concrete decks.	3” diameter	Altenloh, Brinck & Co. U.S., Inc.
5.	Tremco FM-90 Base Sheet Fastener	Base ply fastening systems for lightweight concrete decks.	2.7” head 1.7” long	Tremco CPG Inc.
6.	Millennium PG-1 Low Viscosity Insulation Adhesive	Polyurethane two component low rise insulation adhesive.	1.5 liters	H.B. Fuller Company



**APPROVED SURFACING / COATING OPTIONS:**

**TABLE 4**

**Chosen components must be applied according to manufacturer’s application instructions. Any coating, listed below, used as a surfacing, must be listed within a current NOA.**

<u>System Number</u>	<u>Manufacturer</u>	<u>Application</u>
1.	Tremco CPG Inc.	Flood coat of THERMastic 80 adhesive or hot roofing asphalt and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq., respectively.
2.	Tremco CPG Inc.	Flood coat of BURmastic Adhesive (aka POWERply Standard Cold Adhesive) or Premium IV and gravel/slag with an application rate of 4.0-5.0 gal./sq., 48-72 lbs./sq., & 400 lbs./sq., respectively.
3.	Tremco CPG Inc.	Flood coat of Rock-It Adhesive and gravel/slag with an application rate of 5.0 gal./sq. & 200 lbs./sq., respectively.
4.	Tremco CPG Inc.	Flood coat of Rock-It Adhesive WB and gravel/slag with an application rate of 5.0 gal./sq. & 200 lbs./sq., respectively.
5.	Tremco CPG Inc.	TremLastic S adhesive with an application rate of 4.0-5.0 gal./sq.
6.	Tremco CPG Inc.	Alumanation 301 with an application rate of 2.0-2.5 gal./sq.
7.	Tremco CPG Inc.	ICE Coating with an application rate of 4.0-5.0 gal./sq.



**EVIDENCE SUBMITTED:**

<u>Test Agency/Identifier</u>	<u>Report</u>	<u>Test Name</u>	<u>Date</u>
Factory Mutual Research Corporation	1994 FM	Current Insulation Fastening Requirements	01/01/94
	2Y9A5.AM	FM 4470	11/13/95
	2D1A8.AM	FM 4470	07/27/00
	0D0A9.AM	FM 4470	08/01/00
	2B8A4.AM	FM 4470	07/02/97
	2D0A0.AM	FM 4454	09/28/98
	3015502	FM 4470	12/30/04
	3042560	FM 4470	04/23/12
PRI Asphalt Technologies, Inc.	TRE-061-02-01	ASTM D6163	10/04/12
	TRE-106-02-01	ASTM D2178	12/18/12
	881T0008	ASTM D312	06/06/22
Underwriters Laboratories, Inc.	TGFU.R6692	Fire Classification Compliance	02/07/18
Momentum Technologies, Inc.	DX12K5A	ASTM D 6163	11/07/05
	CX13K5A	ASTM D 6162	11/07/05
	DX11K5A	ASTM D 6164	11/07/05
Trinity ERD	SC6775.01.15	FM 4474 / TAS 114	01/02/15
	TRM-SC6910.12.16	Various Standards	12/22/16
	O8050.04.08-R2	TAS 117	02/21/12
NEMO ETC, LLC	TRM-SC13940.01.18-1B	FM 4470 / TAS 114	01/12/18
	TRM-SC13455.11.17-1-R2	Various Standards	01/15/18
	TRM-SC13455.11.17-2-R2	Various Standard	01/15/18
	4-TRM-18-006.08.18-1	FM 4474 / TAS 114	08/02/18
	4-TRM-18-006.08.18-2	FM 4474 / UL 1897 / TAS 114	08/02/18
	4-TRM-18-006.08.18-3	FM 4474 / UL 1897 / TAS 114	08/02/18
	4a-TRM-19-LSWUS-02.A	FM 4474 / UL 1897 / TAS 114	03/18/19
	4i-TRM-19-SSCRT-03.A	TAS 117 (B) / ASTM D 1876	08/16/19
	4q-TRM-19-SSMBB-01.B	ASTM D 6162	10/24/19
	4q-TRM-19-SSMBB-01.C	ASTM D 6162	10/24/19
	4q-TRM-19-SSMBB-01.D	ASTM D 6162	10/24/19
	4q-TRM-19-SSMBB-01.E	ASTM D 6163	10/24/19
	4q-TRM-19-SSMBB-01.F	ASTM D 6163	10/24/19
	4q-TRM-19-SSMBB-01.G	ASTM D 6164	10/24/19
	4q-TRM-19-SSMBB-01.H	ASTM D 6164	10/24/19
	4q-TRM-19-SSMBB-01.A	ASTM D 6162	02/07/20
	4q-TRM-21-SSMBB-02.A.R1	ASTM D 4601 / ASTM D 5147	12/16/21

**DECK STRESS ANALYSIS CALCULATIONS/REPORTS:**

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies</u>	<u>Date</u>
Robert Nieminen, P.E.	Signed/Sealed Calculations	E(1), E(4)	01/12/18



**DECK STRESS ANALYSIS CALCULATIONS/REPORTS:**

<u>Engineer/Agency</u>	<u>Identifier</u>	<u>Assemblies</u>	<u>Date</u>
FM Approval Deck Limitations	N/A	C(1), C(2), C(3), C(4), E(4) A(1), A(2) E(2), E(3)	See Test Reports 08/31/23 01/01/13



**APPROVED ASSEMBLIES:**

**Membrane Type:** SBS

**Deck Type 4I:** Lightweight Concrete, Insulated

**Deck Description:** Min. 370 psi Elastizell Lightweight Insulating Concrete cast over steel

**System Type A(1):** One or more layers of insulation adhered with approved adhesive onto roof deck

**Deck:** Min. 22 ga., Type BV, Grade 40 steel decking over ¼” thick steel supports spaced max. 6 ft. o.c. attached 6” o.c. using min. ½” diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 12” 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.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**All General and System Limitations apply.**

**Anchor Sheet:** BURmastic Composite Ply HT fastened with Trufast Twin Loc-Nail (min. 1.7” embed) spaced 7” o.c. at 4” laps and 7” o.c. at two equally spaced staggered center rows.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
EnergyGuard Polyiso Insulation Minimum 1.0” thick	N/A	N/A

**Note:** Base insulation shall be adhered with Tremco Low Rise Foam Insulation Adhesive, Tremco Low Rise Foam Insulation Adhesive (BG), Tremco LR Adhesive, Tremco LR Adhesive (BG), Millennium One Step Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive in continuous ¾” – 1” wide ribbons, 10.5” o.c. (ribbons shall be over anchor sheet fastener rows). Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A
SECUROCK Cement Roof Board Minimum ½” thick	N/A	N/A

**Note:** Top insulation shall be adhered with Tremco Low Rise Foam Insulation Adhesive\*, Tremco Low Rise Foam Insulation Adhesive (BG), Tremco LR Adhesive, Tremco LR Adhesive (BG), Millennium One Step Foamable Adhesive\* or Millennium PG-1 Low Viscosity Insulation Adhesive in continuous ¾” – 1” wide ribbons, 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

*\*Not with DensDeck Prime*

**Base Sheet:** BURmastic Composite Ply HT adhered with POWERply Endure BIO Adhesive or POWERply Endure BIO Adhesive TF\* at a rate of 2.0 gal./sq.





*\*Only with SECUROCK Cement Roof Board.*

**Ply Sheet:  
(Optional)**

BURmastic Composite Ply HT adhered with BURmastic Adhesive MC at a rate of 2.0 gal./sq.

**Cap Sheet:**

POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

**Surfacing:  
(Optional)**

Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design  
Pressure:**

-45.0 psf (See General Limitation #7.)



**Membrane Type:** SBS

**Deck Type 4I:** Lightweight Concrete, Insulated

**Deck Description:** Min. 430 psi Elastizell Lightweight Insulating Concrete cast over steel

**System Type A(2):** One or more layers of insulation adhered with approved adhesive onto roof deck

**Deck:** Min. 22 ga., Type BV, Grade 80 steel decking over ¼” thick steel supports spaced max. 6 ft. o.c. attached 6” o.c. using min. ½” diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 12” 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.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**All General and System Limitations apply.**

**Anchor Sheet:** BURmastic Composite Ply HT fastened with Trufast Twin Loc-Nail (min. 1.7” embed) spaced 7” o.c. at 4” laps and 7” o.c. at three equally spaced staggered center rows.

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener Density/ft<sup>2</sup></u>
EnergyGuard Polyiso Insulation Minimum 1.0” thick	N/A	N/A

**Note:** Base insulation shall be adhered with Tremco Low Rise Foam Insulation Adhesive, Tremco Low Rise Foam Insulation Adhesive (BG), Tremco LR Adhesive, Tremco LR Adhesive (BG), Millennium One Step Foamable Adhesive or Millennium PG-1 Low Viscosity Insulation Adhesive in continuous ¾” – 1” wide ribbons, 8” o.c. (ribbons shall be over anchor sheet fastener rows). Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener Density/ft<sup>2</sup></u>
DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board Minimum ¼” thick	N/A	N/A
SECUROCK Cement Roof Board Minimum ½” thick	N/A	N/A

**Note:** Top insulation shall be adhered with Tremco Low Rise Foam Insulation Adhesive\*, Tremco Low Rise Foam Insulation Adhesive (BG), Tremco LR Adhesive, Tremco LR Adhesive (BG), Millennium One Step Foamable Adhesive\* or Millennium PG-1 Low Viscosity Insulation Adhesive in continuous ¾” – 1” wide ribbons, 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

*\*Not with DensDeck Prime*

**Base Sheet:** BURmastic Composite Ply HT adhered with POWERply Endure BIO Adhesive or POWERply Endure BIO Adhesive TF\* at a rate of 2.0 gal./sq.

*\*Only with SECUROCK Cement Roof Board.*



**Ply Sheet:  
(Optional)**

BURmastic Composite Ply HT adhered with BURmastic Adhesive MC at a rate of 2.0 gal./sq.

**Cap Sheet:**

POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

**Surfacing:  
(Optional)**

Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design  
Pressure:**

-60.0 psf (See General Limitation #7.)



**Membrane Type:** SBS

**Deck Type 4I:** Lightweight Concrete, Insulated

**Deck Description:** Min. 350 psi Generic Cellular Lightweight Insulating Concrete cast over steel. Lightweight Concrete should record a Minimum Characteristic Resistance Force (MCRF) of 262lbf when tested with Trufast Versa Fasteners and Plates in accordance with TAS 105.

**System Type C(1):** All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

**Deck:** Min. 22 ga., Type BV, Grade 40 steel decking over ¼” thick steel supports spaced max. 6 ft. o.c. attached 6” o.c. using min. ½” diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 18” o.c. using Traxx/1 fasteners. Steel deck is covered with a pre-existent, min. 2” thick cellular lightweight concrete.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>MONOBOARD</b> Minimum 1.0” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>SECUROCK Gypsum-Fiber Roof Board</b> Minimum ½” thick	3, 4	1:2.7 ft <sup>2</sup>

**Note:** All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** POWERply Standard Smooth HW, torch-applied.

**Ply Sheet:** None.

**Cap Sheet:** POWERply Standard FR HW, torch-applied.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design Pressure:** -45.0 psf (See General Limitation #7.)



**Membrane Type:** SBS

**Deck Type 4I:** Lightweight Concrete, Insulated

**Deck Description:** Min. 350 psi Generic Cellular Lightweight Insulating Concrete cast over steel. Lightweight Concrete should record a Minimum Characteristic Resistance Force (MCRF) of 262lbf when tested with Trufast Versa Fasteners and Plates in accordance with TAS 105.

**System Type C(2):** All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

**Deck:** Min. 22 ga., Type BV, Grade 40 steel decking over ¼” thick steel supports spaced max. 6 ft. o.c. attached 6” o.c. using min. ½” diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 18” o.c. using Traxx/1 fasteners. Steel deck is covered with a pre-existent, min. 2” thick cellular lightweight concrete.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>MONOBOARD</b> Minimum 1.0” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
<b>SECUROCK Gypsum-Fiber Roof Board</b> Minimum ½” thick	3, 4	1:1.8 ft <sup>2</sup>

**Note:** All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** POWERply Standard Smooth HW, torch-applied.

**Ply Sheet:** None

**Cap Sheet:** POWERply Standard FR HW, torch-applied.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design Pressure:** -60.0 psf (See General Limitation #7.)



**Membrane Type:** SBS

**Deck Type 4I:** Lightweight Concrete, Insulated

**Deck Description:** Min. 350 psi Generic Cellular Lightweight Insulating Concrete cast over steel. Lightweight Concrete should record a Minimum Characteristic Resistance Force (MCRF) of 262lbf when tested with Trufast Versa Fasteners and Plates in accordance with TAS 105.

**System Type C(3):** All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

**Deck:** Min. 22 ga., Type BV, Grade 40 steel decking over ¼” thick steel supports spaced max. 6 ft. o.c. attached 6” o.c. using min. ½” diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 18” o.c. using Traxx/1 fasteners. Steel deck is covered with a pre-existent, min. 2” thick cellular lightweight concrete.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
ACFoam-II, Trisotech G Minimum 1.5” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
STURDY-DEK Asphaltic Coverboard Minimum 1/8” thick	3, 4	1:1.33 ft <sup>2</sup>

**Note:** All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** BURmastic Composite Ply HT adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal/sq.  
Or  
POWERply Heavy Duty Base Sheet adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

**Ply Sheet:  
(Optional)** BURmastic Composite Ply HT adhered with BURmastic Adhesive MC at a rate of 2.0 gal./sq.  
Or  
POWERply Heavy Duty Base Sheet adhered with POWERply Endure BIO Adhesive at a rate of 2.5-3.0 gal./sq.



**Cap Sheet:** POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design  
Pressure:** -67.5 psf (See General Limitation #7.)



**Membrane Type:** SBS

**Deck Type 4I:** Lightweight Concrete, Insulated

**Deck Description:** Min. 350 psi Generic Cellular Lightweight Insulating Concrete cast over steel. Lightweight Concrete should record a Minimum Characteristic Resistance Force (MCRF) of 262lbf when tested with Trufast Versa Fasteners and Plates in accordance with TAS 105.

**System Type C(4):** All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

**Deck:** Min. 22 ga., Type BV, Grade 40 steel decking over ¼” thick steel supports spaced max. 6 ft. o.c. attached 6” o.c. using min. ½” diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 18” o.c. using Traxx/1 fasteners. Steel deck is covered with a pre-existent, min. 2” thick cellular lightweight concrete.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
MONOBOARD Minimum 1.0” thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft<sup>2</sup></u>
SECUROCK Gypsum-Fiber Roof Board Minimum ½” thick	3, 4	1:1.33 ft <sup>2</sup>

**Note:** All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** POWERply Standard Smooth HW, torch-applied.

**Ply Sheet:** None

**Cap Sheet:** POWERply Standard FR HW, torch-applied.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design Pressure:** -97.5 psf (See General Limitation #7.)





**Membrane Type:** SBS

**Deck Type 4:** Lightweight Concrete, Non-Insulated

**Deck Description:** Celcore Lightweight Concrete

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

**Deck:** Min. 350 psi Celcore MF with Celcore HS Rheology Modifying Admixture; min. 1” EPS board; placed in 1/8” to 1/4” slurry, followed by min. 2” topcoat cast over min. 22 ga. Type BV, Grade 40 steel deck treated with Celcore S-1 secured with 5/8” diameter puddle welds to structural supports spaced a max. of 6 ft. o.c. with Tek/5 screws spaced 6” o.c. Side laps attached with Tek/1 screws spaced 18” o.c.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**All General and System Limitations apply.**

**Base Sheet:** POWERply Heavy Duty Base Sheet mechanically fastened with Trufast VERSA-FAST Fasteners (2.25” long) and Trufast VERSA-FAST Metal Plates; 4 screws per plate; spaced 12” o.c. in the center of the min. 5” side laps. Side laps are sealed with POWERply Endure BIO Adhesive at 60 lineal feet per gallon.

**Ply Sheet:** None

**Cap Sheet:** BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-20 gal./sq., or adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

Or

POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-20 gal./sq., or adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

Or

POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with approved mopping of asphalt applied with the EVT range at an application rate of 20-40 lbs./sq., or adhered with THERMastic 80 at 25-30 lbs./sq.

Or

POWERply Standard FR HW, torch-applied.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



**Membrane Type:** SBS  
**Deck Type 4:** Lightweight Concrete, Non-Insulated  
**Deck Description:** Min. 300 psi Celcore Lightweight Insulating Concrete cast over steel  
**System Type E(2):** Base sheet mechanically attached to roof deck. Membranes subsequently adhered.

**All General and System Limitations apply.**

**Deck:** Min. 22 ga., Type B steel decking over ¼” thick steel supports spaced max. 6 ft. o.c. attached 6” o.c. using min. ½” diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 30” 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.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**Base Sheet:** One ply of BURmastic Composite Ply HT mechanically to deck fastened as described below

**Fasteners:** CR Base Sheet Fasteners (1.7”) at 7” o.c. at the sidelap which shall be 3” and two staggered rows 7” o.c. in the field.

**Ply Sheet** One or more plies of BURmastic Composite Ply HT or BURmastic Glass Ply or POWERply Heavy Duty Base Sheet adhered with POWERply Standard Cold Adhesive at a rate of 1.5-2.0 gal./sq.

Or

Two or more plies of THERMglass Type IV or THERMglassPremium VI sheet adhered with THERMastic 80 or Premium IV asphalt.

**Cap Sheet:** POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered to with THERMastic 80 or Premium IV asphalt.

Or

POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



**Membrane Type:** SBS  
**Deck Type 4:** Lightweight Concrete, Non-Insulated  
**Deck Description:** Min. 300 psi Celcore Lightweight Insulating Concrete cast over steel  
**System Type E(3):** Base sheet mechanically attached to roof deck. Membranes subsequently adhered.

**All General and System Limitations apply.**

**Deck:** Min. 22 ga., Type B steel decking over ¼” thick steel supports spaced max. 6 ft. o.c. attached 6” o.c. using min. ½” diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 30” 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.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

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

**Fasteners:** CR Base Sheet Fasteners (1.7”) at 7” o.c. at the sidelap which shall be 3” and two staggered rows 7” o.c. in the field.

**Ply Sheet** One or more plies of BURmastic Composite Ply HT or BURmastic Glass Ply or POWERply Heavy Duty Base Sheet adhered with POWERply Standard Cold Adhesive at a rate of 1.5-2.0 gal./sq.

**Cap Sheet:** POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Surfacing: (Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



**Membrane Type:** SBS  
**Deck Type 4:** Lightweight Concrete, Non-Insulated  
**Deck Description:** Min. 350 psi Generic Cellular Lightweight Insulating Concrete cast over steel. Lightweight Concrete should record a Minimum Characteristic Resistance Force (MCRF) of 262lbf when tested with Trufast Versa Fasteners and Plates in accordance with TAS 105.  
**System Type E(4):** Base sheet mechanically attached to roof deck. Membranes subsequently adhered.

**All General and System Limitations apply.**

**Deck:** Min. 22 ga., Type BV, Grade 40 steel decking over ¼” thick steel supports spaced max. 6 ft. o.c. attached 6” o.c. using min. ½” diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 18” o.c. using Traxx/1 fasteners. Steel deck is covered with a pre-existent, min. 2” thick cellular lightweight concrete.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**Base Sheet:** One ply of POWERply Heavy Duty Base Sheet mechanically to deck fastened as described below.

**Fasteners:** Trufast VERSA-FAST Fasteners (2.25” long) and Trufast VERSA-FAST Metal Plates; 4 screws per plate; spaced 10” o.c. in the center of the min. 5” side laps. Side laps are sealed with POWERply Endure BIO Adhesive at 75 lineal feet per gallon.

**Ply Sheet: (Optional)** BURmastic Composite Ply HT adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

**Cap Sheet:** POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

**Surfacing: (Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

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



**Membrane Type:** SBS  
**Deck Type 4:** Lightweight Concrete, Non-Insulated  
**Deck Description:** Min. 350 psi Celcore MF with Celcore HS Rheology Modifying Admixture; min. 1" EPS board; placed in 1/8" to 1/4" slurry, followed by min. 2" topcoat cast over steel deck treated with Celcore S-1 Deck Preparation Slurry.  
**System Type E(5):** Base sheet mechanically fastened

- Deck:**
1. 22 ga., Type BV, Grade 50 steel deck attached to supports having a maximum span of 72" o.c.
  2. 22 ga., Type BV, Grade 40 steel deck attached to supports having a maximum span of 60" o.c.
  3. 20 ga., Type BV, Grade 40 steel deck attached to supports having a maximum span of 72" o.c.

All of the above steel deck options are attached to structural supports with ITW Buildex Tek/5 screws and 5/8" diameter puddle welds spaced 6" o.c. at each corrugation.

All of the above steel deck options; panel side laps are fastened 18" o.c. with ITW Buildex Tek/1 screws.

**This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.**

**All General and System Limitations apply.**

**Base Sheet:** POWERply Heavy Duty Base Sheet mechanically fastened with Trufast VERSA-FAST Fasteners (2.25" long) and Trufast VERSA-FAST Metal Plates; 4 screws per plate; spaced 10" o.c. at the min. 5" side lap and 10" o.c. at one spaced center row. Side laps are sealed with POWERply Endure BIO Adhesive at 60 lineal feet per gallon.

**Ply Sheet: (Optional)** BURmastic Composite Ply HT adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

Or

POWERply Heavy Duty Base Sheet adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

Or

BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with approved mopping of asphalt applied with the EVT range at an application rate of 20-40 lbs./sq., or adhered with THERMastic 80 at 25-30 lbs./sq.

Or

POWERply Heavy Duty Base Sheet adhered with approved mopping of asphalt applied with the EVT range at an application rate of 20-40 lbs./sq., or adhered with THERMastic 80 at 25-30 lbs./sq.

Or

POWERply Standard Smooth HW, torch-applied.

**Cap Sheet:** BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-20 gal./sq., or adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

Or



POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-20 gal./sq., or adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

Or

BURmastic Composite Ply HT adhered with approved mopping of asphalt applied with the EVT range at an application rate of 20-40 lbs./sq.

Or

POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with approved mopping of asphalt applied with the EVT range at an application rate of 20-40 lbs./sq., or adhered with THERMastic 80 at 25-30 lbs./sq.

Or

POWERply Standard FR HW, torch-applied.

**Surfacing:  
(Optional)**

Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design  
Pressure:**

-127.5 psf (See General Limitation #7.)



**Membrane Type:** SBS  
**Deck Type 4:** Lightweight Concrete, Non-Insulated  
**Deck Description:** Celcore Cellular Lightweight Insulating Concrete, Min. 393 psi cast over structural concrete deck.  
**System Type F(1):** Base sheet adhered to substrate  
**All General and System Limitations apply.**

**LWC Deck:** Min. 2” thick top coat, min. 393 psi, Celcore Cellular Lightweight Insulating Concrete cast over structural concrete deck.

**Base Sheet:** BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Heavy Duty Base Sheet, POWERply Endure 100 Smooth, POWERply Endure 200 Smooth, POWERply Endure 300 Smooth or POWERply Endure 320 Smooth adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Ply Sheet:  
(Optional)** BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Heavy Duty Base Sheet adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Cap Sheet:** BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design Pressure:** -102.5 psf (See General Limitation #9.)



**Membrane Type:** SBS  
**Deck Type 4:** Lightweight Concrete, Non-Insulated  
**Deck Description:** Celcore Cellular Lightweight Insulating Concrete, Min. 393 psi cast over Tectum Plank.  
**System Type F(2):** Base sheet adhered to substrate

**All General and System Limitations apply.**

**LWC Deck:** Min. 2" thick top coat, min 393 psi, Celcore Cellular Lightweight Insulating Concrete cast over Tectum Plank.

**Base Sheet:** BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Heavy Duty Base Sheet, POWERply Endure 100 Smooth, POWERply Endure 200 Smooth, POWERply Endure 300 Smooth or POWERply Endure 320 Smooth adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Ply Sheet:  
(Optional)** BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Heavy Duty Base Sheet adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Cap Sheet:** BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design  
Pressure:** -102.5 psf (See General Limitation #9.)





**Membrane Type:** SBS  
**Deck Type 4:** Lightweight Concrete, Non-Insulated  
**Deck Description:** Celcore Cellular Lightweight Insulating Concrete, Min. 275 psi cast over primed structural concrete.  
**System Type F(3):** Base sheet adhered to substrate  
**All General and System Limitations apply.**

**Vapor Barrier:** BURmastic Composite Ply HT adhered to substrate with BURmastic Adhesive SF at a rate of 2.0 gal./sq.

**LWC Deck:** Min. 2" thick top coat, min 275 psi, Celcore Cellular Lightweight Insulating Concrete cast over structural concrete primed with TREMprime WB primer.

**Base Sheet:** BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Heavy Duty Base Sheet, POWERply Endure 100 Smooth, POWERply Endure 200 Smooth, POWERply Endure 300 Smooth or POWERply Endure 320 Smooth adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Ply Sheet:  
(Optional)** BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Heavy Duty Base Sheet adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Cap Sheet:** BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design  
Pressure:** -102.5 psf (See General Limitation #9.)



**Membrane Type:** SBS  
**Deck Type 4:** Lightweight Concrete, Non-Insulated  
**Deck Description:** Celcore Cellular Lightweight Insulating Concrete, Min. 393 psi cast over Tectum Plank.  
**System Type F(4):** Base sheet adhered to substrate

**All General and System Limitations apply.**

**Vapor Barrier:** BURmastic Composite Ply HT adhered to substrate with Tremco LR Adhesive, Tremco LR Adhesive (BG), Tremco Low Rise Foam Insulation Adhesive (BG) or Millennium PG-1 Low Viscosity Insulation Adhesive with ribbons spaced 9-inch o.c.

**LWC Deck:** Min. 2" thick top coat, min 393 psi, Celcore Cellular Lightweight Insulating Concrete cast over Tectum Plank.

**Base Sheet:** BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Heavy Duty Base Sheet, POWERply Endure 100 Smooth, POWERply Endure 200 Smooth, POWERply Endure 300 Smooth or POWERply Endure 320 Smooth adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Ply Sheet:  
(Optional)** BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Heavy Duty Base Sheet adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Cap Sheet:** BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.  
Or  
POWERply Standard FR, POWERply Endure 100 FR, POWERply Endure 200 FR, POWERply Endure 300 FR or POWERply Endure 320 FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal./sq.

**Surfacing:  
(Optional)** Install one of the approved surfacing products listed in Table 4 to obtain desired coating or required fire classification.

**Maximum Design  
Pressure:** -102.5 psf (See General Limitation #9.)



### **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.)**
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**

