



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
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www.miamidade.gov/building/

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 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 over 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. 16-0419.03 and consists of pages 1 through 51.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 21-0426.04
Expiration Date: 07/12/26
Approval Date: 07/15/21
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ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Modified Bitumen
Material: SBS
Deck Type: Concrete
Maximum Design Pressure -262.5 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 Composite Ply HT	36" x 72'	ASTM D 4601 Type II	Type II asphalt impregnated glass felt for use in conventional and modified bitumen built up roofing.
BURmastic Glass Ply	36" x 72'	ASTM D 4601 Type II, Proprietary	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 Standard Cold Adhesive	5 and 55 gallons	Proprietary	Cold applied ply sheet and membrane adhesive.
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.



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THERMastic 80	60 lb. Containers	Proprietary	All purpose roofing cement.
THERMglass Type IV	36" x 180'	ASTM D 2178 IV	Type IV asphalt impregnated glass felt.
THERMglass Premium VI	36" x 180'	ASTM D 2178 VI	Type VI asphalt impregnated glass felt.
TREMprime WB primer	5 gallons	Proprietary	Water based roofing primer.
Tremco Low Rise Foam Insulation Adhesive	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.
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.
POWERply Endure BIO Adhesive	Part A – 5 gallons Part B – 1 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
ACFoam-III	Various	TAS 110	Polyisocyanurate foam insulation	Atlas Roofing Corporation
ENRGY 3	Various	TAS 110	Polyisocyanurate foam insulation	Johns Manville Corp.
ENRGY 3 Plus	Various	TAS 110	Polyisocyanurate foam insulation	Johns Manville Corp.
ISO 95+ GL	Various	TAS 110	Polyisocyanurate foam insulation	Firestone Building Products Company
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
H-Shield	Various	TAS 110	Polyisocyanurate foam insulation	Hunter Panels, LLC
EnergyGuard Polyiso Insulation	Various	TAS 110	Polyisocyanurate foam insulation	GAF
Structodek High Density Fiberboard Roof Insulation	Various	TAS 110	Wood fiber insulation board	Blue Ridge Fiberboard, Inc.
SECUROCK Gypsum-Fiber Roof Board	Various	TAS 110	Rigid, gypsum based board	United States Gypsum Corp.
MONOBOARD	Various	TAS 110	Mineral fiber insulation	ROXUL, Inc. dba ROCKWOOL
MONOBOARD PLUS	Various	TAS 110	Mineral fiber insulation	ROXUL, Inc. dba ROCKWOOL
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.	#14 Roofgrip	Insulation and membrane fastener.	Various	OMG, Inc.
2.	Dekfast DF-#14-PH3, Dekfast DF-#15-PH3	Insulation and membrane fastener.	Various	SFS Group USA, Inc.
3.	Dekfast PLT-P-R-3	Polypropylene round stress plate.	3" round	SFS Group USA, Inc.
4.	Dekfast PLT-H-2-7/8	Polypropylene round stress plate.	3' round	SFS Group USA, Inc.
5.	#15 Roofgrip	Insulation and membrane fastener.	Various	OMG, Inc.
6.	Flat Bottom Metal Plate	Galvalume stress plate.	3" square	OMG, Inc.
7.	CD-10	Insulation fastener.	Various	OMG, Inc.
8.	Fluted Nail	Insulation fastener.	Various	OMG, Inc.
9.	3 in. Ribbed Galvalume Plate	Galvalume round stress plate.	3" round	OMG, Inc.
10.	3 in. Ribbed Galvalume Plate (Flat)	Galvalume round stress plate.	3" round	OMG, Inc.
11.	OMG 2-3/8" Barbed XHD Plate	Galvanized steel stress plate.	2-3/8" round	OMG, Inc.
12.	OMG Eyehook Accuseam Plate	Galvalume round stress plate.	2-3/8" round	OMG, Inc.
13.	AccuTrac Plate	Galvalume square stress plate.	3" square	OMG, Inc.
14.	AccuTrac Flat Bottom	Aluminized square stress plate.	3" square	OMG, Inc.
15.	Recessed Metal Plate	Galvalume stress plate.	3" square	OMG, Inc.
16.	OMG 3" Galvalume Steel Plate	Galvalume stress plate.	3" diameter	OMG, Inc.
17.	3 in. Round Metal Plate	Galvalume AZ50 steel plate.	3" diameter	OMG, 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>
18.	OMG Plastic Plate	Polypropylene stress plate.	3.25" diameter	OMG, Inc.
19.	Trufast #14 HD Fastener, Trufast #15 EHD Fastener	Insulation fastener for wood, steel and concrete decks.	Various	Altenloh, Brinck & Co. U.S., Inc.
20.	Trufast 3" Metal Insulation Plate	Galvalume AZ50 steel plate.	3" diameter	Altenloh, Brinck & Co. U.S., Inc.
21.	Dekfast PLT-R-2-4B	2" round galvalume AZ50 steel plate.	2" diameter	SFS Group USA, Inc.
22.	ASAP RoofGrip Pre- Assembled System	Pre-assembled Roofgrip #12, #14, #15, OMG Heavy Duty and XHD fasteners with approved plates.	Various	OMG, Inc.
23.	Tremco #14 HD Fastener, Tremco #15 EHD Fastener	Insulation fastener for wood, steel and concrete decks.	Various	Tremco, Inc.
24.	Tremco 3" Metal Insulation Plate	Galvalume AZ50 steel plate.	3" diameter	Tremco, Inc.
25.	OMG Heavy Duty	Insulation fastener for wood, steel and concrete decks.	Various	OMG, Inc.
26.	Trufast Deep Well Coiled Batten Bar	Insulation batten bar.	1" x 100' coil	Altenloh, Brinck & Co. U.S., Inc.
27.	Tremco Coil MB-R	Insulation batten bar.	1" x 100' coil	Tremco, Inc.
28.	Millennium One Step Foamable Adhesive	Polyurethane two component high rise insulation adhesive.	1.5 liters	H.B. Fuller Company
29.	Millennium PG-1 Low Viscosity Insulation Adhesive	Polyurethane two component low rise insulation adhesive.	1.5 liters	H.B. Fuller Company
30.	OMG OlyBond Adhesive	A two-component, cold- applied adhesive.	Various	OMG, Inc.
31.	OMG OlyBond 500	A two-component, cold- applied adhesive.	Various	OMG, Inc.

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, 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, Inc.	Flood coat of BURmastic Adhesive (aka POWERply Standard Cold Adhesive) or Premium III, 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, 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, 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, Inc.	TremLastic S adhesive with an application rate of 4.0-5.0 gal./sq.
6.	Tremco, Inc.	Alumanation 301 with an application rate of 2.0-2.5 gal./sq.
7.	Tremco, 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	0V7A4.AM	FM 4450	06/10/92
	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
	3005298	FM 4470	05/10/02
	3018436	FM 4470	02/09/04
	3018437	FM 4470	02/09/04
	3012588	FM 4470	12/28/04
	3015502	FM 4470	12/30/04
	3026215	FM 4470	05/19/06
	3030777	FM 4470	10/16/07
	3033461	FM 4470	09/16/08
	3034975	FM 4470	11/20/08
	3037525	FM 4470	09/25/09
	3039057	FM 4470	04/21/11
	3041535	FM 4470	06/08/11
	3042374	FM 4470	08/11/11
	3043423	FM 4470	12/14/11
	3045534	FM 4470	04/04/12
	3042560	FM 4470	04/23/12
	3040922	FM 4470	06/13/12
	3045650	FM 4470	09/27/12
	3055491	FM 4470	12/05/16
PRI Asphalt Technologies, Inc.	TRE-15-02-01	Physical Properties	05/25/99
	JMC-074-02-01	ASTM D4897	04/17/12
	TRE-055-02-01	ASTM D6509	05/29/12
	TRE-057-02-01	ASTM D4601	07/24/12
	TRE-058-02-01	ASTM D4601	07/24/12
	TRE-060-02-01	ASTM D5726	07/24/12
	JMC-093-02-01	ASTM D4601	08/02/12
	TRE-063-02-01	ASTM D6163	10/04/12
	TRE-064-02-01	ASTM D6163	10/04/12
	TRE-066-02-01	ASTM D6162	10/04/12
	TRE-061-02-01	ASTM D6163	10/04/12
	TRE-073-02-01	ASTM D312	12/04/12
	TRE-074-02-01	ASTM D312	12/04/12
	TRE-106-02-01	ASTM D2178	12/18/12
	TRE-107-02-01	ASTM D2178	12/18/12
	JMC-053-02-01	ASTM D6222	05/01/13
	JMC-234-02-03	ASTM D6163	04/29/15
	000-12	TAS 114	09/09/00
Underwriters Laboratories, Inc.	TGFU.R6692	Fire Classification Compliance	02/07/18

MIAMI-DADE COUNTY
APPROVED

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EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Report</u>	<u>Test Name</u>	<u>Date</u>
Momentum Technologies, Inc.	DX12K5A	ASTM D 6163	11/07/05
	CX13K5A	ASTM D 6162	
	DX11K5A	ASTM D 6164	
	ACRC 07-015	TAS 114 (D)	04/17/07
Trinity ERD	SC6775.12.14	FM 4474 / TAS 114	12/31/14
	SC6775.01.15	FM 4474 / TAS 114	01/02/15
	SC9625.11.15-2-R1	FM 4474 / TAS 114	11/17/15
	TRM-SC9680.03.16-R1	ASTM D6164	03/29/16
	TRM-SC9680.05.16	ASTM D4601	05/03/16
	11090.07.16-1	FM 4474/TAS 114	07/18/16
	11090.10.16-1	FM 4474/TAS 114	10/20/16
	12935.10.16	FM 4474 / TAS 114	10/20/16
	12530.10.16-2	FM 4474 / TAS 114	10/20/16
	TRM-SC6910.12.16	Various Standards	12/22/16
	TRM-CTL15770.09.17-2	FM 4474 / TAS 114	09/20/17
NEMO ETC, LLC	TRM-SC13455.11.17-1-R2	Various Standards	01/15/18
	TRM-SC13455.11.17-2-R2	Various Standards	01/15/18

APPROVED ASSEMBLIES:

Membrane Type:	SBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type A(1):	One or more layers of insulation adhered with approved adhesive onto concrete deck
All General and System Limitations apply.	

Vapor Barrier: (Optional)	POWERply Standard Smooth HW, torched applied to concrete deck primed with TREMprime WB primer at 200-400 ft ² /gal. Or BURmastic Composite Ply HT adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.
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One or more layers of any of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, ACFoam-III, Trisotech G, ENRGY 3, RESISTA Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: All insulations 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.

Base Sheet:	BURmastic Composite Ply HT adhered with BURmastic Adhesive SF at a rate of 2.0 gal./sq.
Ply Sheet:	BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive, BURmastic Adhesive or BURmastic Adhesive SF at a rate of 2.0 gal./sq.
Cap Sheet:	POWERply Standard FR adhered with POWERply Standard Cold Adhesive, BURmastic Adhesive or BURmastic Adhesive SF 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:	-180 psf (See General Limitation #9.)



Membrane Type: SBS

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

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

All General and System Limitations apply.

Primer: Concrete deck shall be primed with TREMprime WB primer at 200-400 ft²/gal.
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/ft²</u>
ACFoam-II, Trisotech G, ENRGY 3 Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: All insulations shall be adhered with FAS-N-FREE in continuous ¾" – 1" wide ribbons, 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: BURmastic Composite Ply HT adhered with BURmastic Adhesive SF at a rate of 2.0 gal./sq.

Ply Sheet: BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive, BURmastic Adhesive or BURmastic Adhesive SF at a rate of 2.0 gal./sq.

Cap Sheet: POWERply Standard FR adhered with POWERply Standard Cold Adhesive, BURmastic Adhesive or BURmastic Adhesive SF 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: -180.0 psf (See General Limitation #9.)



Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(3): One or more layers of insulation adhered with approved adhesive onto concrete deck
All General and System Limitations apply.

Vapor Barrier: POWERply Standard Smooth HW, torched applied to concrete deck primed with
(Optional) TREMprime WB primer at 200-400 ft²/gal.
 Or
 BURmastic Composite Ply HT adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.

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/ft²</u>
ACFoam-II, ACFoam-III, Trisotech G, ENRGY 3, RESISTA Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	N/A	N/A

Note: All insulations 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.

Base Sheet: BURmastic Composite Ply HT adhered with BURmastic Adhesive SF at a rate of 2.0 gal./sq.

Ply Sheet: BURmastic Composite Ply HT adhered with POWERply Standard Cold Adhesive, BURmastic Adhesive or BURmastic Adhesive SF at a rate of 2.0 gal./sq.

Cap Sheet: POWERply Standard FR adhered with POWERply Standard Cold Adhesive, BURmastic Adhesive or BURmastic Adhesive SF at a rate of 2.0 gal./sq.

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

Maximum Design Pressure: -180.0 psf (See General Limitation #9.)



Membrane Type: SBS

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(4): One or more layers of insulation adhered with approved adhesive onto primed concrete deck

All General and System Limitations apply.

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

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/ft²</u>
ACFoam-II, Trisotech G, ACFoam-III, ENRGY 3, EnergyGuard Polyiso Insulation, H-Shield, ISO 95+ GL, Multi-Max FA-3, RESISTA, UltraMax Minimum 1" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 5/8" thick	N/A	N/A

Note: All insulations 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 3/4" – 1" wide ribbons, 12" o.c. 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 gal./sq.
 Or
 POWERply Heavy Duty Base adhered with POWERply Endure BIO Adhesive at a rate of 2 gal./sq.

Ply 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 gal./sq.
(Optional) 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
 POWERply Heavy Duty Base Sheet adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2 gal./sq., or adhered with approved mopping of asphalt applied with the EVT range at an application rate of 20-40 lbs./sq.



Cap Sheet:

POWERply Standard FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2 gal./sq., or adhered with approved mopping of asphalt applied with the EVT range at an application rate of 20-40 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:**

-195.0 psf (See General Limitation #9.)



Membrane Type: SBS

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(5): One or more layers of insulation adhered with approved adhesive onto primed concrete deck

All General and System Limitations apply.

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

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/ft²</u>
ACFoam-II, Trisotech G, ACFoam-III, ENRGY 3, EnergyGuard Polyiso Insulation, H-Shield, ISO 95+ GL, Multi-Max FA-3, RESISTA, UltraMax Minimum 1" thick	N/A	N/A

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 5/8" thick	N/A	N/A

Note: All insulations 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 3/4" – 1" wide ribbons, 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with THERMastic 80 at a rate of 25-30 lbs./sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with THERMastic 80 at a rate of 25-30 lbs./sq.

Ply Sheet: BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with THERMastic 80 at a rate of 25-30 lbs./sq.
(Optional) Or
 POWERply Heavy Duty Base Sheet adhered with THERMastic 80 at a rate of 25-30 lbs./sq.



Cap Sheet:	POWERply Standard FR adhered with THERMastic 80 at a rate of 25-30 lbs./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:	-195.0 psf (See General Limitation #9.)



Membrane Type: SBS

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(6): One or more layers of insulation adhered with approved adhesive onto primed concrete deck

All General and System Limitations apply.

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

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/ft²</u>
ACFoam-II, Trisotech G, ACFoam-III, ENRGY 3, EnergyGuard Polyiso Insulation, H-Shield, ISO 95+ GL, Multi-Max FA-3, RESISTA, UltraMax Minimum 1" thick	N/A	N/A

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum 5/8" thick	N/A	N/A

Note: All insulations 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 3/4" – 1" wide ribbons, 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

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

Ply Sheet: POWERply Standard Smooth HW, torch-applied.
(Optional)

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

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

Maximum Design Pressure: -195.0 psf (See General Limitation #9.)



Membrane Type: SBS, APP
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type A(7): One or more layers of insulation adhered with approved adhesive onto primed concrete deck
All General and System Limitations apply.

Vapor Barrier: POWERply Standard Smooth HW, torched applied to concrete deck primed with TREMprime
(Optional) WB primer at 200-400 ft²/gal.

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/ft²</u>
ACFoam-II, ACFoam-III, Trisotech G, ENRGY 3, RESISTA Minimum 1.5" thick	N/A	N/A

Note: Base insulation layer 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.

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: Top insulation layer shall be adhered with FAS-N-FREE in ribbons at a rate of 1.5 – 2.0 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: BURmastic Composite Ply HT adhered with BURmastic Adhesive SF at a rate of 1.5 – 2.0 gal./sq.

Ply Sheet: BURmastic Composite Ply HT adhered with BURmastic Adhesive SF at a rate of 1.5 – 2.0 gal./sq.

Cap Sheet: POWERply Standard FR adhered with BURmastic Adhesive SF at a rate of 1.5 – 2.0 gal./sq.

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

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



Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type B(1): Base layer of insulation mechanically fastened, top insulation layer adhered with approved adhesive. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 2.0" thick	1, 16	1:1.6 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: Top layer of 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" wide ribbons, 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or
 THERMglass Type IV or THERMglass Premium VI adhered with THERMastic 80 at a rate of 25-30 lbs/sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with THERMastic 80 at a rate of 25-30 lbs/sq.

Ply Sheet: None

Cap Sheet: POWERply Standard FR adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or



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POWERply Standard FR adhered with THERMastic 80 at a rate of 25-30 lbs/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 psf (See General Limitation #7.)



Membrane Type: SBS

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(2): Base layer of insulation mechanically fastened, top insulation layer adhered with approved adhesive. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 2.0" thick	1, 16	1:1.6 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Stuctodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with FAS-N-FEE in continuous ¾" wide ribbons, 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:

BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with Hot asphalt at a rate of 20-40 lbs/sq.

Or

THERMglass Type IV or THERMglass Premium VI adhered with THERMastic 80 at a rate of 25-30 lbs/sq.

Or

POWERply Heavy Duty Base Sheet adhered with Hot asphalt at a rate of 20-40 lbs/sq.

Or

POWERply Heavy Duty Base Sheet adhered with THERMastic 80 at a rate of 25-30 lbs/sq.

Ply Sheet: None

Cap Sheet:

POWERply Standard FR adhered with Hot asphalt at a rate of 20-40 lbs/sq.

Or

POWERply Standard FR adhered with THERMastic 80 at a rate of 25-30 lbs/sq.



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**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 psf (See General Limitation #7.)



Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type B(3): Base layer of insulation mechanically fastened, additional insulation layer(s) and top insulation layer adhered with approved adhesive. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 2.0" thick	19, 20, 23, 24	1:2 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Additional Insulation Layer(s):</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, Trisotech G Minimum 1.0" thick	N/A	N/A

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation, DensDeck Prime, DEXcell FA Glass Mat Roof Board, SECUROCK Gypsum-Fiber Roof Board, SECUROCK Cement Roof Board Minimum ½" thick	N/A	N/A

Note: Top insulation layer 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" wide ribbons, 6" o.c. and 12" o.c. for additional insulation layer(s). Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: BURmastic Glass Ply or BURmastic Composite Ply HT adhered with BURmastic Adhesive SF at a rate of 2.0 gal./sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with BURmastic Adhesive SF at a rate of 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: POWERply Standard 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:** -60 psf (See General Limitation #7.)



Membrane Type: SBS

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(4): Base layer of insulation mechanically fastened, additional insulation layer(s) and top insulation layer adhered with approved adhesive. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 2.0" thick	19, 20, 23, 24	1:2 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Additional Insulation layer(s)</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, Trisotech G Minimum 1.0" thick	N/A	N/A

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: Top insulation layer 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" wide ribbons, 6" o.c. and 12" o.c. for additional insulation layer(s). Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with Hot asphalt at a rate of 20-40 lbs/sq.

Or

THERMglass Type IV or THERMglass Premium VI adhered with THERMastic 80 at a rate of 25-30 lbs/sq.

Or

POWERply Heavy Duty Base Sheet adhered with Hot asphalt at a rate of 20-40 lbs/sq.

Or

POWERply Heavy Duty Base Sheet adhered with THERMastic 80 at a rate of 25-30 lbs/sq.



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Ply Sheet:	None
Cap Sheet:	POWERply Standard 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:	-60.0 psf (See General Limitation #7.)



Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type B(5): Base layer of insulation mechanically fastened, top insulation layer adhered with approved adhesive. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 2.0" thick	19 (#14), 20, 23 (#14), 24	1:2 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
Structodek High Density Fiberboard Roof Insulation Minimum ½" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with Hot asphalt at a rate of 20-40 lbs/sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or
 BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with THERMastic 80 at 25-30 lbs/sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with Hot asphalt at 20-40 lbs/sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with THERMastic 80 at a rate of 25-30 lbs/sq.

**Ply Sheet:
(Optional)** BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or
 BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with THERMastic 80 at 25-30 lbs/sq.
 Or



POWERply Heavy Duty Base Sheet adhered with Hot asphalt at 20-40 lbs/sq.

Or

POWERply Heavy Duty Base Sheet adhered with THERMastic 80 at a rate of 25-30 lbs/sq.

Cap Sheet:

POWERply Standard FR adhered with Hot asphalt at 20-40 lbs/sq.

Or

POWERply Standard FR adhered with THERMastic 80 at a rate of 25-30 lbs/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 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(6): Base layer of insulation mechanically fastened, top insulation layer adhered with approved adhesive. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 2.0" thick	1, 16	1:1.45 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with Hot Asphalt at a rate of 20-40 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: BURmastic Glass Ply or BURmastic Composite Ply HT adhered with Hot asphalt at a rate of 20-40 lbs./sq.
Or
POWERply Heavy Duty Base Sheet adhered with Hot asphalt at a rate of 20-40 lbs./sq.
Or
BURmastic Composite Ply HT adhered with BURmastic Adhesive SF at a rate of 2.0 gal./sq.
Or
POWERply Heavy Duty Base Sheet adhered with BURmastic Adhesive SF at a rate of 2.0 gal./sq.

Ply Sheet: None

Cap Sheet: POWERply Standard FR adhered with Hot asphalt at a rate of 20-40 lbs./sq.

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

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



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Pressure:



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Membrane Type: SBS

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(7): Base layer of insulation mechanically fastened, top insulation layer adhered with approved adhesive. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 2.0" thick	1, 16	1:1.45 ft ²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime Minimum ¼" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with Hot Asphalt at a rate of 20-40 lbs./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: BURmastic Glass Ply or BURmastic Composite Ply HT adhered with Hot asphalt at a rate of 20-40 lbs./sq.

Or

BURmastic Glass Ply or BURmastic Composite Ply HT adhered with THERMastic 80 at 25-30 lbs/sq.

Or

POWERply Heavy Duty Base Sheet adhered with Hot asphalt at a rate of 20-40 lbs./sq.

Or

POWERply Heavy Duty Base Sheet adhered with THERMastic 80 at a rate of 25-30 lbs/sq.

Ply Sheet: None

Cap Sheet: POWERply Standard FR adhered with Hot asphalt at a rate of 20-40 lbs./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.)



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Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(1): All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

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/ft²</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/ft²</u>
DensDeck Prime Minimum ½" thick	1, 16	1:1.6 ft ²

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 BURmastic Adhesive SF at a rate of 2.0 gal/sq.
Or
POWERply Heavy Duty Base Sheet adhered with BURmastic Adhesive SF at a rate of 2.0 gal/sq.

Ply Sheet: None

Cap Sheet: POWERply Standard FR adhered with POWERply Standard Cold Adhesive or BURmastic Adhesive at a rate of 1.5-2.0 gal/sq.
Or
POWERply Standard FR adhered with BURmastic Adhesive SF 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 psf (See General Limitation #7.)





Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(2): All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

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/ft²</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/ft²</u>
DensDeck Prime Minimum ½" thick	1, 16	1:1.6 ft ²

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 Glass Ply or BURmastic Composite Ply HT adhered with THERMastic 80 at 25-30 lbs/sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with Hot asphalt at a rate of 20-40 lbs./sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with THERMastic 80 at a rate of 25-30 lbs/sq.

Ply Sheet: None

Cap Sheet: POWERply Standard FR adhered with Hot asphalt at a rate of 20-40 lbs./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 psf (See General Limitation #7.)



Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(3): All layers of insulation simultaneously mechanically fastened

All General and System Limitations apply.

One or more layers of the following insulations.

<u>Base Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
ACFoam-II, Trisotech G Minimum 1.5" thick	N/A	N/A
Note: Both layers of insulation shall be simultaneously mechanically fastened: see top layer below for fasteners and density.		
<u>Top Insulation Layer</u>	<u>Insulation Fasteners (Table 3)</u>	<u>Fastener Density/ft²</u>
MONOBOARD PLUS Minimum 1.0" thick	16, 18, 23, 24	1:1.5 ft ² (12" o.c. through bars spaced 18" o.c.)

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: 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 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(4): All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G, ENRGY 3, Ultra-Max Minimum 1.5" thick	N/A	N/A

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	19 (#14), 20, 23 (#14), 24	1:1.33 ft ²

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: THERMglass Type IV or THERMglass Premium VI adhered with Hot asphalt at a rate of 20-40 lbs/sq.
Or
THERMglass Type IV or THERMglass Premium VI adhered with THERMastic 80 at a rate of 20-40 lbs/sq.

Ply Sheet: THERMglass Type IV or THERMglas Premium VI adhered with Hot asphalt at a rate of 20-40 lbs/sq.
Or
THERMglass Type IV or THERMglass Premium VI adhered with THERMastic 80 at a rate of 20-40 lbs/sq.

Cap Sheet: POWERply Standard FR adhered with Hot asphalt at a rate of 20-40 lbs/sq.
Or
POWERply Standard FR adhered with THERMastic 80 at a rate of 20-40 lbs/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: -112.5 psf (See General Limitation #7.)



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Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(5): All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

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> (Table 3)	<u>Fastener Density/ft²</u>
ACFoam-II, Trisotech G, ENRYG 3, Ultra-Max Minimum 1.5" thick	N/A	N/A

<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> (Table 3)	<u>Fastener Density/ft²</u>
DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	19 (#14), 20, 23 (#14), 24	1:1 ft ²

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: THERMglass Type IV or THERMglass Premium VI adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or
 THERMglass Type IV or THERMglass Premium VI adhered with THERMastic 80 at a rate of 20-40 lbs/sq.

Ply Sheet: THERMglass Type IV or THERMglas Premium VI adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or
 THERMglass Type IV or THERMglass Premium VI adhered with THERMastic 80 at a rate of 20-40 lbs/sq.

Cap Sheet: POWERply Standard FR adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or
 POWERply Standard FR adhered with THERMastic 80 at a rate of 20-40 lbs/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: -157.5 psf (See General Limitation #7.)



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Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(6): All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G, ENRGY 3, Ultra-Max Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	19 (#14), 20, 23 (#14), 24	1:1.33 ft ²

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 Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with Hot asphalt at a rate of 20-40 lbs./sq.
 Or
 BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with THERMastic 80 at a rate of 20-40 lbs./sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with Hot asphalt at a rate of 20-40 lbs./sq.
 Or
 POWERply Heavy Duty Base Sheet with THERMastic 80 at a rate of 20-40 lbs./sq.

Ply Sheet: THERMglass Type IV or THERMglas Premium VI adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or
 THERMglass Type IV or THERMglass Premium VI adhered with THERMastic 80 at a rate of 20-40 lbs/sq.

Cap Sheet: POWERply Standard FR adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or



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POWERply Standard FR adhered with THERMastic 80 at a rate of 20-40 lbs/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:**

-157.5 psf (See General Limitation #7.)



Membrane Type: SBS
Deck Type 3I: Concrete, Insulated
Deck Description: 2500 psi structural concrete or concrete plank
System Type C(7): All layers of insulation simultaneously attached. Membranes subsequently adhered to insulation.

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/ft²</u>
ACFoam-II, Trisotech G, ENRGY 3, Ultra-Max Minimum 1.5" thick	N/A	N/A
<u>Top Insulation Layer</u>	<u>Insulation Fasteners</u> <u>(Table 3)</u>	<u>Fastener Density/ft²</u>
SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick	19 (#14), 20, 23 (#14), 24	1:1 ft ²

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 Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with Hot asphalt at a rate of 20-40 lbs./sq.
 Or
 BURmastic Glass Ply, THERMglass Type IV, THERMglass Premium VI or BURmastic Composite Ply HT adhered with THERMastic 80 at a rate of 20-40 lbs./sq.
 Or
 POWERply Heavy Duty Base Sheet adhered with Hot asphalt at a rate of 20-40 lbs./sq.
 Or
 POWERply Heavy Duty Base Sheet with THERMastic 80 at a rate of 20-40 lbs./sq.

Ply Sheet: THERMglass Type IV or THERMglas Premium VI adhered with Hot asphalt at a rate of 20-40 lbs/sq.
 Or
 THERMglass Type IV or THERMglass Premium VI adhered with THERMastic 80 at a rate of 20-40 lbs/sq.



Cap Sheet: POWERply Standard FR adhered with Hot asphalt at a rate of 20-40 lbs/sq.
Or
POWERply Standard FR adhered with THERMastic 80 at a rate of 20-40 lbs/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:** -172.5 psf (See General Limitation #7.)



Membrane Type:	SBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(1):	All layers of insulation and base sheet simultaneously attached. Membranes subsequently adhered to base sheet.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet:	POWERply Heavy Duty Base Sheet, mechanically attached as detailed below:
Fastening:	Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Tremco #14 HD Fasteners, Tremco #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates or Tremco 2.4" Barbed Seam Plates at 12" o.c. at the 4" side lap. Side laps are sealed with POWERply Endure BIO Adhesive at 60 lineal feet per gallon.
Ply Sheet: (Optional)	BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq. Or POWERply Heavy Duty Base adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.
Cap Sheet:	POWERply Standard 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:	-90 psf (See General Limitation #7.)



Membrane Type:	SBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(2):	All layers of insulation and base sheet simultaneously attached. Membranes subsequently adhered to base sheet.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet:	POWERply Heavy Duty Base Sheet, mechanically attached as detailed below:
Fastening:	Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Tremco #14 HD Fasteners, Tremco #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates or Tremco 2.4" Barbed Seam Plates at 12" o.c. at the 4" side lap. Side laps are sealed with POWERply Endure BIO Adhesive at 60 lineal feet per gallon.
Ply Sheet: (Optional)	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 a rate of 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 a rate of 25-30 lbs./sq.
Cap Sheet:	POWERply Standard 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 a rate of 25-30 lbs./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:**

-90 psf (See General Limitation #7.)



Membrane Type:	SBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(3):	All layers of insulation and base sheet simultaneously attached. Membranes subsequently adhered to base sheet.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet:	POWERply Heavy Duty Base Sheet, mechanically attached as detailed below:
Fastening:	Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Tremco #14 HD Fasteners, Tremco #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates or Tremco 2.4" Barbed Seam Plates at 12" o.c. at the 4" side lap. Side laps are sealed with POWERply Endure BIO Adhesive at 60 lineal feet per gallon.
Ply Sheet: (Optional)	POWERply Standard Smooth HW, torch-applied.
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:	-90 psf (See General Limitation #7.)



Membrane Type:	SBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(4):	All layers of insulation and base sheet simultaneously attached. Membranes subsequently adhered to base sheet.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet:	POWERply Heavy Duty Base Sheet, mechanically attached as detailed below:
Fastening:	Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Tremco #14 HD Fasteners, Tremco #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates or Tremco 2.4" Barbed Seam Plates at 6" o.c. at the 4" side lap. Side laps are sealed with POWERply Endure BIO Adhesive at 60 lineal feet per gallon.
Ply Sheet: (Optional)	BURmastic Glass Ply or BURmastic Composite Ply HT adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq. Or POWERply Standard FR adhered with POWERply Endure BIO Adhesive at a rate of 2.0 gal./sq.
Cap Sheet:	POWERply Standard FR adhered with 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:	-157.5 psf (See General Limitation #7.)



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Membrane Type:	SBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(5):	All layers of insulation and base sheet simultaneously attached. Membranes subsequently adhered to base sheet.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet:	POWERply Heavy Duty Base Sheet, mechanically attached as detailed below:
Fastening:	Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Tremco #14 HD Fasteners, Tremco #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates or Tremco 2.4" Barbed Seam Plates at 6" o.c. at the 4" side lap. Side laps are sealed with POWERply Endure BIO Adhesive at 60 lineal feet per gallon.
Ply Sheet: (Optional)	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 a rate of 25-30 lbs./sq. Or POWERply Standard 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 a rate of 25-30 lbs./sq.
Cap Sheet:	POWERply Standard 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 a rate of 25-30 lbs./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:	-157.5 psf (See General Limitation #7.)



Membrane Type:	SBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(6):	All layers of insulation and base sheet simultaneously attached. Membranes subsequently adhered to base sheet.

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/ft²</u>
ACFoam-II, Trisotech G Minimum 1.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet:	POWERply Heavy Duty Base Sheet, mechanically attached as detailed below:
Fastening:	Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Tremco #14 HD Fasteners, Tremco #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates or Tremco 2.4" Barbed Seam Plates at 6" o.c. at the 4" side lap. Side laps are sealed with POWERply Endure BIO Adhesive at 60 lineal feet per gallon.
Ply Sheet: (Optional)	POWERply Standard Smooth HW, torch-applied.
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:	-157.5 psf (See General Limitation #7.)



Membrane Type:	SBS
Deck Type 3I:	Concrete, Insulated
Deck Description:	2500 psi structural concrete or concrete plank
System Type D(7):	All layers of insulation and base sheet simultaneously attached. Membranes subsequently adhered to base sheet.

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/ft²</u>
H-Shield Minimum 2.0" thick	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Base Sheet:	POWERply Heavy Duty Base Sheet, mechanically attached as detailed below:
Fastening:	Trufast #14 HD Fasteners, Trufast #15 EHD Fasteners or Tremco #14 HD Fasteners, Tremco #15 EHD Fasteners with Trufast 2.4" Barbed Metal Seam Plates or Tremco 2.4" Barbed Seam Plates at 6" o.c. at the 5" side lap and 6" 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)	POWERply Heavy Duty Base Sheet adhered with POWERply Endure BIO Adhesive at a rate of 2 gal./sq. Or POWERply Standard Smooth HW, torch-applied.
Cap Sheet:	POWERply Standard FR adhered with POWERply Endure BIO Adhesive at a rate of 2 gal./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:	-217.5 psf (See General Limitation #7.)



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 Engineer, Architect, or Registered Roof Consultant.

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 Professional Engineer, Registered 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.)**
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