



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

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

**NOTICE OF ACCEPTANCE (NOA)**

**U.S. Intec, Inc.  
1361 Alps Road  
Wayne, N.J. 07470**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee 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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: US Intec Modified Bitumen Roofing Systems Over Poured Gypsum Decks**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA # 02-1028.03 and consists of pages 1 through 27.  
The submitted documentation was reviewed by Frank Zuloaga, RRC



**NOA No.: 03-0507.01  
Expiration Date: 08/01/08  
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## ROOFING SYSTEM APPROVAL

Category: Roofing  
Sub-Category: Modified Bitumen  
  
Material: APP/SBS  
Deck Type: Gypsum  
Maximum Design Pressure -75 psf  
Fire Classification: See General Limitation #1

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

TABLE 1

<u>Product</u>	<u>Dimensions*</u>	<u>Test Specification</u>	<u>Product Description</u>
WorkHorse™ Ultra Base Sheet	67 lb. roll	ASTM D 4601	Type II asphalt impregnated and coated glass fiber base sheet.
Brai® Supreme™ APP Smooth (SP-4)	88 lb. roll	ASTM D 6222	Smooth surface, polyester reinforced, APP modified asphalt membrane.
Brai Supreme APP Granule (GBSP-4)	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, APP modified asphalt membrane.
Brai Supreme APP Granule FR (GBSP-4FR)	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, fire resistant, APP modified asphalt membrane.
Brai Supreme Plus APP Granule FR	90 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, fire resistant, APP modified asphalt membrane.
WorkHorse™ APP 160 Smooth	88 lb. roll	ASTM D 6222	Smooth surface, polyester reinforced, APP modified asphalt membrane.
WorkHorse APP 160 Granule	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, APP modified asphalt membrane.
WorkHorse APP Smooth	88 lb. roll	ASTM D 6222	Smooth surface, polyester reinforced, APP modified asphalt membrane.
WorkHorse APP Granule	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, APP modified asphalt membrane.
Brai Supreme APP Poly Smooth	88 lb. roll	ASTM D 6222	Smooth surface, polyester reinforced, APP modified asphalt membrane.
Brai Supreme APP Poly Granule	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, APP modified asphalt membrane.
Brai Supreme APP Poly Granule FR	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, fire resistant, APP modified asphalt membrane.
WorkHorse SBS 160 Granule	97 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, SBS modified asphalt membrane.
Supreme™ Eliminator™ Nailable Base Sheet	72 lb. roll	ASTM D 4897 Type II	Fiber glass base sheet impregnated and coated on both sides.
Supreme Eliminator Perforated Venting Base Sheet	67 lb. roll	ASTM D 4601 Type I	Type I asphalt impregnated and coated glass fiber base sheet with kraft paper backing.



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<u>Product</u>	<u>Dimensions*</u>	<u>Test Specification</u>	<u>Product Description</u>
Brai Supreme SBS Glass Base	90 lb. roll	ASTM D 6163 Type I Grade S	Fiberglass base sheet coated with SBS modified asphalt.
Brai Flex ModBase Supreme Plus HS	90 lb. roll	ASTM D 6163	Smooth surface, fiber glass mat and scrim reinforced, SBS modified asphalt membrane.
Brai Supreme Ply 4	38 lb. roll	ASTM D 2178 Type IV	Type IV asphalt impregnated glass felt.
Brai Supreme Ply 6	38 lb. roll	ASTM D 2178 Type VI	Type VI asphalt impregnated glass felt.
WorkHorse Ultra Cap Sheet	72 lb. roll	ASTM D 3909	Asphalt impregnated and coated felt surfaced with mineral granules.
WorkHorse Ultra Cap 730 Premier	72 lb. roll	ASTM D 3909	Asphalt impregnated and coated felt surfaced with mineral granules.
Brai Supreme SBS Poly Smooth (Flex Smooth)	88 lb. roll	ASTM D 6164	Smooth surface, polyester reinforced, SBS modified asphalt membrane.
Brai Supreme SBS Poly Granule (Flex 190)	97 lb. roll	ASTM D 6164	Granule surface, polyester reinforced, SBS modified asphalt membrane.
Brai Supreme SBS Poly Granule FR (Flex 190 FR)	105 lb. roll	ASTM D 6164	Granule surface, polyester reinforced, fire resistant, SBS modified asphalt membrane.
Brai Supreme Plus SBS Poly Granule FR (Flex 250 FR)	105 lb. roll	ASTM D 6164	Granule surface, polyester reinforced, fire resistant, SBS modified asphalt membrane.
Brai Supreme SBS Glass Granule FR (Brai FR 4.5)	105 lb. roll	ASTM D 6163	Granule surface, fiberglass reinforced, fire retardant, SBS modified asphalt membrane.
Brai Supreme SBS Dual FR (Intec Flex Dual FR)	69 lb. roll	ASTM D 6164 Type II Grade G	Granule surface, polyester/fiberglass reinforced, fire resistant, SBS modified asphalt membrane.
Intec Flex G4 (Smooth)	90 lb. roll	ASTM D 6163	Smooth surface, fiberglass reinforced, SBS modified asphalt membrane.
Brai Supreme Flex Aluminum		ASTM D 5147	Aluminum surface, reinforced membrane for flashing use only.
Brai Supreme APP Walk Board	3' x 3'	Proprietary	Granule surface, APP modified asphalt membrane walkboard.
Brai Supreme SBS Walk Board	3' x 3'	Proprietary	Granule surface, SBS modified asphalt membrane walkboard.
Flex Asphalt. Asphalt Plus, Asphalt Lite	various	ASTM D 312	SEBS modified mopping asphalt.
Brai Supreme/Permaglas Roofing Asphalt	various	ASTM D 312	Mopping Asphalt
Fireshield	6 gal. drum	proprietary	A liquid, temporary fire retardant treatment for brush, roll or spray application.
M-Weld® Gravel Guard MB	various	proprietary	Metal edge gravel guard with perforated flange.
M-Weld® MDrain	various	proprietary	Spun aluminum or copper roof drain.
M-Weld® MPan	various	proprietary	A prefabricated pitch pan and modified bitumen flashing assembly.
M-Weld® MScupper	various	proprietary	Prefabricated scupper.
M-Weld® Preflashed Lead Jack	various	proprietary	Preflashed vent pipe waterproofing assembly.



<u>Product</u>	<u>Dimensions*</u>	<u>Test Specification</u>	<u>Product Description</u>
M-Weld® Standard, Adjustable, One Way MVent Intec Tape	various roll	proprietary proprietary	Prefabricated stack cover for use in soil pipe waterproofing. Unreinforced APP asphalt used as sealer or filler.
Matrix 101 System Pro SBS Adhesive	various	ASTM D3019	Cold Applied Modified SEBS Asphalt Adhesive
Matrix 102 Select SBS Adhesive	various	ASTM D3019	Cold Applied Modified SEBS Asphalt Adhesive.
Matrix 103 Cold Adhesive	various	ASTM D3019	Cold Applied Asphalt Adhesive.
Matrix 201 System Pro SBS Flashing	various	ASTM D3019	Cold Applied Modified SEBS Asphalt Adhesive – Flashing Grade.
Matrix 202 Select SBS Flashing	various	ASTM D4586	Cold Applied Modified SEBS Asphalt Adhesive – Flashing Grade.
Matrix 203 Standard Plastic Cement	various	ASTM D4586	Standard Plastic Asphalt Roofing Cement
Matrix 204 Standard Wet/Dry Cement	various	proprietary	Asphalt Based Roof Cement
Matrix 205 System Pro	various	ASTM D3409	SBS Modified Roof Cement
Matrix™ 301 System Pro Fibered Aluminum Roof Coating	various	ASTM D2824, Type I	Fibered. Aluminum pigmented, asphalt roof coating
Matrix™ 302 System Pro Non-Fibered Aluminum Roof Coating	various	ASTM D2824, Type I	Non-fibered. Aluminum pigmented, asphalt roof coating
Matrix 303 Select Fibered Aluminum	various	ASTM D2824, Type III	Fibered aluminum coating.
Matrix 304 Select Non-Fibered	various	ASTM D2824, Type I	Non-fibered. Aluminum pigmented, asphalt roof coating.
Matrix™ Fibered 305 Emulsion	various	ASTM 1227	Asphalt based clay emulsion roof coating.
Matrix™ 307 Primer	various	ASTM D 41	Asphalt based primer.
Matrix™ 322 White Elastomeric Roof Coating	various	ASTM D 2824, Type I	Styrene, acrylic based roof coating.
Matrix 602 SB Coating)	various		Surface coating for smooth surfaced and mineral surfaced roofs.
Matrix 715 MB Coating	various		Surface coating for smooth surfaced and mineral surfaced roofs.

### APPROVED INSULATIONS:

TABLE 2

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
BMCA EnergyGuard High Density Wood Fiberboard	High density wood fiberboard insulation.	BMCA
BMCA EnergyGuard Recover Board	Perlite recover board	BMCA



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**APPROVED INSULATIONS:**

**TABLE 2**

<b>Product Name</b>	<b>Product Description</b>	<b>Manufacturer (With Current NOA)</b>
BMCA EnergyGuard Permalite	Perlite board	BMCA
BMCA EnergyGuard (USIso) Iso	Polyisocyanurate foam insulation	BMCA
BMCA EnergyGuard (USIso/Perlite) Composite	Polyisocyanurate/wood fiberboard composite	BMCA
PYROX	Polyisocyanurate foam insulation	Apache Products Co.
White Line	Polyisocyanurate foam insulation	Apache Products Co.
ACFoam II	Polyisocyanurate foam insulation	Atlas Energy Products
Wood Fiber	Wood fiber insulation board	Generic
High Density Wood Fiberboard	Wood fiber insulation board	Generic
Pelite/Urethane Composite	Perlite / urethane composite board insulation	Generic
Perlite Insulation	Perlite insulation board	Generic
Type X Gypsum	Fire resistant rated gypsum.	Generic
Dens Deck	Water resistant gypsum board	G-P Gypsum Corp.
E'NRG'Y-2	Polyisocyanurate foam insulation	Johns Manville
Multi-Max & FA	Polyisocyanurate roof insulation	RMax, Inc.

**APPROVED FASTENERS:**

**TABLE 3**

<b>Fastener Number</b>	<b>Product Name</b>	<b>Product Description</b>	<b>Dimensions</b>	<b>Manufacturer (With Current NOA)</b>
1.	Lite Deck Fastener	Insulation fastener for CWF and Gypsum decks.		US Intec, Inc.
2.	Lite Deck Metal	Round galvalume stress plates.	3"	US Intec, Inc.
3.	Twin Loc-Nail	Base sheet fastener with intergrated Plate.	1.8" long w/ 2.7" dia. plate	ES Products, Inc.
4.	Powerlite	Insulation fastener for CWF and Gypsum decks.		Powers Fasteners, Inc.
5.	Powerlite Plates	3" round galvalume AZ55 steel plate	3" round	Powers Fasteners, Inc.
6.	Powerlite Lap Plates	2" round galvalume AZ55 steel plate	2" round	Powers Fasteners, Inc.

**EVIDENCE SUBMITTED:**



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<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corp.	J.I. 3X0A9.AM	FMRC 4470	04/12/94
Factory Mutual Research Corp.	Letter	Approval Extension	04/13/94
Factory Mutual Research Corp.	J.I. 1B7A6.AM	FMRC 4470	05/27/97
Factory Mutual Research Corp.	J.I. 3B0A0.AM	FMRC 4470/4454	04/30/97
Factory Mutual Research Corp.	J.I. 0D3A3.AM	FMRC 4470/4454	04/04/97
Factory Mutual Research Corp.	3012280	FMRC 4470	09/16/02
Underwriters Laboratories, Inc.	1997 UL Guide	Fire Classification Compliance	01/01/97
Underwriters Laboratories, Inc.	96NK26146	UL 790	11/04/96
Underwriters Laboratories, Inc.	96NK11547	UL 790	05/28/96
Exterior Research & Design, LLC.	#3951.08.96-1	Wind Uplift	08/26/96
IRT-ARCON, Inc.	02-011	PA 114, Appendix C TAS 114	02/07/02



**APPROVED ASSEMBLIES**

**Membrane Type:** APP  
**Deck Type 6I:** Poured Gypsum, Insulated  
**Deck Description:** Poured Gypsum Concrete  
**System Type A:** Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, BMCA EnergyGuard Iso Minimum 1.5" thick	N/A	N/A
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	N/A	N/A
Base or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	N/A	N/A
BMCA Permalite, BMCA EnergyGuard Permalite Minimum 3/4" thick	N/A	N/A

**Note:** All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. US INTEC requires either a ply of Supreme Eliminator Perforated Venting laid dry or a layer of BMCA Permalite or wood fiber overlay board on all isocyanurate applications.

**Anchor Sheet:** WorkHorse Ultra Base Sheet mechanically fastened to the deck as described in fastening #1 below. WorkHorse Ultra Base, Brai Supreme Cap Sheet (inverted) or Supreme Eliminator Nailable Venting to the as described in fastening #2 or #3 below:

**Fastening:**

**Fastening #1:** Fasten anchor sheet with Powerlite 3" Insulation Plates and Powerlite fasteners or Drill-Tec Lite Deck at a 4" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.

**Fastening #2:** Fasten anchor sheet with ES Products FM-60, Nail-Tite Type A or Type R fasteners and FM-30 discs or FM-90 fasteners at a 2" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.

**Fastening #3:** Fasten anchor sheet with ES Products FM-60, Nail-Tite Type A or Nail-Tite Type R fasteners and FM-30 discs or FM-90 fasteners at a 4" side lap 7 1/2" o.c. and one row in the center of the sheet 7 1/2" o.c.



Base Sheet: (Optional if ply sheet is used) WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Ply Sheet: (Optional) One (base sheet required), two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of Brai Supreme APP Smooth or Workhorse APP Smooth torch applied in accordance with manufacture's application instructions to a mopped base sheet.

Membrane: Brai Supreme APP Smooth, Workhorse APP Smooth, Brai Supreme APP GranuleFR, Brai Supreme Plus APP Granule FR, Brai Supreme APP Granule or Workhorse APP Granule torch applied in accordance with manufacture's application instruction to substrate.

Surfacing: (Optional) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq. (Brai Supreme APP Smooth or WorkHorse APP Smooth)
3. Matrix 715 MB Coating applied at rate of 1-1.5 gal./sq.

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



**Membrane Type:** SBS  
**Deck Type 6I:** Poured Gypsum, Insulated  
**Deck Description:** Poured Gypsum Concrete  
**System Type A:** Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

**All General and System limitations apply.**

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, BMCA EnergyGuard Iso Minimum 1.5" thick	N/A	N/A
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	N/A	N/A
Base or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	N/A	N/A
BMCA Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick	N/A	N/A

**Note:** All insulation shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down. US INTEC requires either a ply of Supreme Eliminator Perforated Venting laid dry or a layer of BMCA Permalite or wood fiber overlay board on all isocyanurate applications.

**Anchor Sheet:** WorkHorse Ultra Base mechanically fastened to the deck as described in fastening #1 below. WorkHorse Ultra Base, Brai Supreme Cap Sheet (inverted) or Supreme Eliminator Nailabel Venting mechanically fastened to the deck as described in fastening #2 or #3 below:

**Fastening:**

**Fastening #1:** Fasten anchor sheet with Powerlite 3" Insulation Plates and Powerlite fasteners or Drill-Tec Lite Deck at a 4" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.

**Fastening #2:** Fasten anchor sheet with ES Products FM-60, Nail-Tite Type A or Type R fasteners and FM-30 discs or FM-90 fasteners at a 2" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.

**Fastening #3:** Fasten anchor sheet with ES Products FM-60, Nail-Tite Type A or Nail-Tite Type R fasteners and FM-30 discs or FM-90 fasteners at a 4" side lap 7½" o.c. and one row in the center of the sheet 7½" o.c.



**Base Sheet:** (Optional if ply sheet is used) One or more plies of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

**Ply Sheet:** (Optional) One (base sheet required), two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Or

Two or more plies of Brai Supreme Ply 4, Brai Supreme Ply 6, WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Poly Smooth adhered to the insulation or base sheet with Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.

**Membrane:** Intec Flex FR 3HS, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR, Brai Supreme SBS Dual FR, Brai Supreme SBS Poly Granule, Brai Supreme SBS Poly Smooth, Permaglas SBS, Permaglas SBS FR or Intec WorkHorse SBS Granule adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. or Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.

**Surfacing:** Surfacing: (Optional, required if Brai Supreme SBS Poly Smooth is top membrane) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq.
3. Matrix 715 MB Coating applied at a rate of 1-1.5 gal./sq.

**Maximum Design Pressure:**

-45 psf (See General Limitation #9.)



**Membrane Type:** APP

**Deck Type 6I:** Poured Gypsum, Insulated

**Deck Description:** Poured Gypsum Concrete

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso, ACFoam II, Multi-Max, Multi-Max FA, BMCA EnergyGuard Iso Minimum 1.3" thick	1 or 3	1:2 ft <sup>2</sup>
E'NRG'Y-2 Minimum 1.4" thick	1 or 3	1:2 ft <sup>2</sup>
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	1 or 3	1:2 ft <sup>2</sup>
BMCA Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick	1 or 3	1:2 ft <sup>2</sup>

**Note:** Base layers of insulation shall be mechanically attached using the fastener density listed. 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment. US INTEC requires either a ply of Supreme Eliminator Perforated Venting laid dry or a layer of BMCA Permalite or wood fiber overlay board on all isocyanurate applications.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	N/A	N/A
BMCA Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick	N/A	N/A
BMCA Permalite Recover, BMCA EnergyGuard Recover Minimum ½" thick	N/A	N/A

**Note:** Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.



Base Sheet: (Optional if ply sheet is used) WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Ply Sheet: (Optional) One (base sheet required), two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of Brai Supreme APP Smooth or Workhorse APP Smooth torch applied in accordance with manufacture's application instructions to a mopped base sheet.

Membrane: Brai Supreme APP Smooth, Workhorse APP Smooth, Brai Supreme APP Granule FR, Brai Supreme Plus APP Granule FR, Brai Supreme APP Granule or Workhorse APP Granule torch applied in accordance with manufacture's application instructions to substrate.

Surfacing: (Optional) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq. (Brai Supreme APP Smooth or WorkHorse APP Smooth)
3. Matrix 715 MB Coating applied at rate of 1-1.5 gal./sq.

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



**Membrane Type:** SBS

**Deck Type 6I:** Poured Gypsum, Insulated

**Deck Description:** Poured Gypsum Concrete

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso, AC Foam II, Multi-Max, Multi-Max FA, BMCA EnergyGuard Iso Minimum 1.3" thick	1 or 3	1:2 ft <sup>2</sup>
E'NRG'Y-2 Minimum 1.4" thick	1 or 3	1:2 ft <sup>2</sup>
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	1 or 3	1:2 ft <sup>2</sup>
BMCA Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick	1 or 3	1:2 ft <sup>2</sup>

**Note:** Base layers of insulation shall be mechanically attached using the fastener density listed. 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Protocol TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment. US INTEC requires either a ply of Supreme Eliminator Perforated Venting laid dry or a layer of BMCA EnergyGuard Permalite or wood fiber overlay board on all isocyanurate applications.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	N/A	N/A
BMCA Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick	N/A	N/A
BMCA Permalite Recover, BMCA EnergyGuard Recover Minimum ½" thick	N/A	N/A

**Note:** Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs/100 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.



**Base Sheet:** (Optional if ply sheet is used) One or more plies of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

**Ply Sheet:** (Optional) One (base sheet required), two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Or

Two or more plies of Brai Supreme Ply 4, Brai Supreme Ply 6, WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Poly Smooth adhered to the insulation or base sheet with Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.

**Membrane:** Intec Flex FR 3HS, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR, Brai Supreme SBS Dual FR, Brai Supreme SBS Poly Granule, Brai Supreme SBS Poly Smooth, Permaglas SBS, Permaglas SBS FR or Intec WorkHorse SBS Granule adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. or Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.

**Surfacing:** Surfacing: (Optional, required if Brai Supreme SBS Poly Smooth is top membrane) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq.
3. Matrix 715 MB Coating applied at a rate of 1-1.5 gal./sq.

**Maximum Design Pressure:**

-45 psf (See General Limitation #9.)



**Membran Type:** APP  
**Deck Type 6I:** Poured Gypsum, Insulated  
**Deck Description:** Poured Gypsum Concrete  
**System Type C:** All layers of insulation simultaneously attached.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, BMCA EnergyGuard Iso Minimum 1.5" thick	N/A	N/A
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	N/A	N/A

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.**

Base or Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick	1 or 3	2 ft <sup>2</sup>
BMCA Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick	1 or 3	2 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment. US INTEC requires either a ply of Supreme Eliminator Perforated Venting laid dry or a layer of BMCA Permalite or wood fiber overlay board on all isocyanurate applications.**

**Base Sheet:** (Optional if ply sheet is used) WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

**Ply Sheet:** (Optional) One (base sheet required), two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of Brai Supreme APP Smooth or Workhorse APP Smooth torch applied in accordance with manufacture's application instructions to a mopped base sheet.



Membrane: Brai Supreme APP Smooth, Workhorse APP Smooth, Brai Supreme APP Granule FR, Brai Supreme Plus APP Granule FR, Brai Supreme APP Granule or Workhorse APP Granule torch applied in accordance with manufacture's application instructions to substrate.

Surfacing: Surfacing: (Optional) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq. (Brai Supreme APP Smooth or WorkHorse APP Smooth)
3. Matrix 715 MB Coating applied at rate of 1-1.5 gal./sq.

Maximum Design Pressure:

-45 psf (See General Limitation #9.)



**Membrane Type:** SBS  
**Deck Type 6I:** Poured Gypsum, Insulated  
**Deck Description:** Poured Gypsum Concrete  
**System Type C:** All layers of insulation simultaneously attached.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA, BMCA EnergyGuard Iso Minimum 1.5" thick</b>	N/A	N/A
<b>USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick</b>	N/A	N/A

**Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density.**

<b>Base or Top Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick</b>	1 or 3	2 ft <sup>2</sup>
<b>BMCA Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick</b>	1 or 3	2 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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment. US INTEC requires either a ply of Supreme Eliminator Perforated Venting laid dry or a layer of BMCA EnergyGuard Permalite or wood fiber overlay board on all isocyanurate applications.**

**Base Sheet:** (Optional if ply sheet is used) WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulated substrate with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.



- Ply Sheet:** (Optional) One (base sheet required), two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.  
Or  
Two or more plies of Brai Supreme Ply 4, Brai Supreme Ply 6, WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Poly Smooth adhered to the insulation or base sheet with Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.
- Membrane:** Intec Flex FR 3HS, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR, Brai Supreme SBS Dual FR, Brai Supreme SBS Poly Granule, Brai Supreme SBS Poly Smooth, Permaglas SBS, Permaglas SBS FR or Intec WorkHorse SBS Granule adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. or Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.
- Surfacing:** Surfacing: (Optional, required if Brai Supreme SBS Poly Smooth is top membrane) Install one of the following:
1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
  2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq.
  3. Matrix 715 MB Coating applied at a rate of 1-1.5 gal./sq.
- Maximum Design Pressure:** -45 psf (See General Limitation #9.)



**Membrane Type:** APP  
**Deck Type 6I:** Poured Gypsum, Insulated  
**Deck Description:** Poured Gypsum Concrete  
**System Type D:** All layers of insulation and base sheet simultaneously fastened.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>USIso, ACFoam II, Multi-Max, Multi-Max FA, BMCA EnergyGuard Iso Minimum 1.3" thick</b>	N/A	N/A
<b>E'NRG'Y-2 Minimum 1.4" thick</b>	N/A	N/A
<b>USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick</b>	N/A	N/A
<b>BMCA Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick</b>	N/A	N/A

**Note:** All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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:** WorkHorse Ultra Base or Supreme Eliminator Nailable Venting mechanically fastened to the deck as described below:

**Fastening:** Fasten anchor sheet with Powerlite 3" Insulation Plates and Powerlite fasteners or Drill-Tec Lite Deck at a 4" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.

**Ply Sheet:** One or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of Brai Supreme APP Smooth or Workhorse APP Smooth torch applied in accordance with manufacture's application instructions.

**Membrane:** Brai Supreme APP Smooth, Workhorse APP Smooth, Brai Supreme APP Granule FR, Brai Supreme Plus APP Granule FR, Brai Supreme APP Granule or Workhorse APP Granule torch applied in accordance with manufacture's application instructions to substrate.



Surfacing:

(Optional) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq. (Brai Supreme APP Smooth or WorkHorse APP Smooth)
3. Matrix 715 MB Coating applied at rate of 1-1.5 gal./sq.

Maximum Design  
Pressure:

-45 psf (See General Limitation #9.)



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**Membrane Type:** SBS  
**Deck Type 6I:** Poured Gypsum, Insulated  
**Deck Description:** Poured Gypsum Concrete  
**System Type D:** All layers of insulation and base sheet simultaneously fastened.

**All General and System limitations apply.**

One or more layers of any of the following insulations:

<b>Base Insulation Layer</b>	<b>Insulation Fasteners (Table 3)</b>	<b>Fastener Density/ft<sup>2</sup></b>
<b>USIso, ACFoam II, Multi-Max, Multi-Max FA, BMCA EnergyGuard Minimum 1.3" thick</b>	N/A	N/A
<b>E'NRG'Y-2 Minimum 1.4" thick</b>	N/A	N/A
<b>USIso/Perlite Composite, BMCA EnergyGuard Composite Minimum 1.5" thick</b>	N/A	N/A
<b>BMCA Permalite, BMCA EnergyGuard Permalite Minimum ¾" thick</b>	N/A	N/A

**Note:** All layers of insulation and base sheet shall be simultaneously attached. See base sheet below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements. Insulation shall have preliminary attachment, prior to the installation of the roofing membrane. At an 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:** WorkHorse Ultra Base or Supreme Eliminator Nailabel Venting mechanically fastened to the deck as described below:

**Fastening:** Fasten anchor sheet with Powerlite 3" Insulation Plates and Powerlite fasteners or Drill-Tec Lite Deck at a 4" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.

**Ply Sheet:** (Optional) One (base sheet required), two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.  
 Or  
 Two or more plies of Brai Supreme Ply 4, Brai Supreme Ply 6, WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Poly Smooth adhered to the insulation or base sheet with Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.



**Membrane:** Intec Flex FR 3HS, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR, Brai Supreme SBS Dual FR, Brai Supreme SBS Poly Granule , Brai Supreme SBS Poly Smooth, Permaglas SBS, Permaglas SBS FR or Intec WorkHorse SBS Granule adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. or Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.

**Surfacing:** Surfacing: (Optional, required if Brai Supreme SBS Poly Smooth is top membrane) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq.
3. Matrix 715 MB Coating applied at a rate of 1-1.5 gal./sq.

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



**Membrane Type:** APP  
**Deck Type 6:** Poured Gypsum  
**Deck Description:** Poured Gypsum Concrete  
**System Type E:** Base sheet mechanically fastened.

**All General and System limitations apply.**

**Base Sheet:** WorkHorse Ultra Base mechanically fastened to the deck as described in fastening #1 below. WorkHorse Ultra Base, Brai Supreme Cap Sheet (inverted) or Supreme Eliminator Nailabel Venting mechanically fastened to the deck as described in fastening # 2 or #3 below:

**Fastening:** ***Fastening #1:*** Fasten anchor sheet with Powerlite 3" Insulation Plates and Powerlite fasteners or Drill-Tec Lite Deck at a 4" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.  
***Fastening #2:*** Fasten anchor sheet with ES Products FM-60, Nail-Tite Type A or Type R fasteners and FM-30 discs or FM-90 fasteners at a 2" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.  
***Fastening #3:*** Fasten anchor sheet with ES Products FM-60, Nail-Tite Type A or Nail-Tite Type R fasteners and FM-30 discs or FM-90 fasteners at a 4" side lap 7½" o.c. and one row in the center of the sheet 7½" o.c.

**Ply Sheet:** One or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of Brai Supreme APP Smooth or Workhorse APP Smooth torch applied in accordance with manufacture's application instructions.

**Membrane:** Brai Supreme APP Smooth, Workhorse APP Smooth, Brai Supreme APP GranuleFR, Brai Supreme Plus APP Granule FR, Brai Supreme APP Granule or Workhorse APP Granule torch applied in accordance with manufacture's application instructions to substrate.

**Surfacing:** (Optional) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq. (Brai Supreme APP Smooth or WorkHorse APP Smooth)
3. Matrix 715 MB Coating applied at rate of 1-1.5 gal./sq.

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



**Membrane Type:** SBS

**Deck Type 6:** Poured Gypsum

**Deck Description:** Poured Gypsum Concrete

**System Type E:** Base sheet mechanically fastened.

**Base Sheet:** WorkHorse Ultra Base mechanically fastened to the deck as described in fastening #1 below. WorkHorse Ultra Base, Brai Supreme Cap Sheet (inverted) or Supreme Eliminator Naillabel Venting mechanically fastened to the deck as described in fastening # 2 or #3 below:

**Fastening:** ***Fastening #1:*** Fasten anchor sheet with Powerlite 3” Insulation Plates and Powerlite fasteners or Drill-Tec Lite Deck at a 4" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.  
***Fastening #2:*** Fasten anchor sheet with ES Products FM-60, Nail-Tite Type A or Type R fasteners and FM-30 discs or FM-90 fasteners at a 2" side lap 9" o.c. and two rows staggered in the center of the sheet 18" o.c.  
***Fastening #3:*** Fasten anchor sheet with ES Products FM-60, Nail-Tite Type A or Nail-Tite Type R fasteners and FM-30 discs or FM-90 fasteners at a 4" side lap 7½" o.c. and one row in the center of the sheet 7½" o.c.

**Ply Sheet:** One or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.  
 Or  
 Two or more plies of Brai Supreme Ply 4, Brai Supreme Ply 6, WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Poly Smooth adhered to the insulation or base sheet with Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.

**Membrane:** Intec Flex FR 3HS, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR, Brai Supreme SBS Dual FR, Brai Supreme SBS Poly Granule, Permaglas SBS, Permaglas SBS FR or Intec WorkHorse SBS Granule adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. or Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.

**Surfacing:** Surfacing: (Optional, required if Brai Supreme SBS Poly Smooth is top membrane) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal. /sq.
3. Matrix 715 MB Coating applied at a rate of 1-1.5 gal./sq.

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



**Membrane Type:** APP  
**Deck Type 6:** Poured Gypsum, New Construction  
**Deck Description:** Poured Gypsum Concrete  
**System Type E(2):** Base sheet mechanically fastened.

**All General and System limitations apply.**

**Base Sheet:** WorkHorse Ultra Base or Supreme Eliminator Nailable Venting mechanically fastened to the deck as described below:

**Fastening:** Fasten base sheet with ES Products Twin Loc-Nail fasteners at a 3" side lap 9" o.c. and two rows in the center of the sheet 12" o.c.

**Ply Sheet:** One or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq., or one ply of Brai Supreme APP Smooth or Workhorse APP Smooth torch applied in accordance with manufacture's application instructions.

**Membrane:** Brai Supreme APP Poly Smooth, Brai Supreme APP Poly Granule, Brai Supreme APP Poly Granule FR or Brai Supreme Plus APP Granule FR torch applied in accordance with manufacture's application instructions to substrate.

**Surfacing:** (Optional) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal./sq. (Brai Supreme APP Smooth)
3. Matrix 715 MB Coating applied at rate of 1-1.5 gal./sq.

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



**Membrane Type:** SBS

**Deck Type 6:** Poured Gypsum

**Deck Description:** Poured Gypsum Concrete

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

**Base Sheet:** WorkHorse Ultra Base or Supreme Eliminator Nailable Venting mechanically fastened to the deck as described below:

**Fastening:** Fasten base sheet with ES Products Twin Loc-Nail fasteners at a 3" side lap 9" o.c. and two rows in the center of the sheet 12" o.c.

**Ply Sheet:** One or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 or one ply of WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Base, Brai Supreme SBS Poly Smooth or Intec Flex G4 Smooth adhered to the insulation or base sheet with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.  
Or  
One or more plies of Brai Supreme Ply 4, Brai Supreme Ply 6, WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Flex ModBase Plus Supreme HS, Brai Supreme SBS Poly Smooth adhered to the insulation or base sheet with Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.

**Membrane:** One or more plies of Brai Supreme SBS Poly Smooth, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Granule FR, Brai Supreme SBS Glass Granule FR or, Brai Supreme SBS Dual FR adhered with a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq. or Matrix 102 Select SBS Adhesive at an application rate of 1-2 gal./sq.

**Surfacing:** Surfacing: (Optional, required if Brai Supreme SBS Poly Smooth is top membrane) Install one of the following:

1. Gravel or slag applied at 400 lb./sq. and 300 lb./sq. respectively in a flood coat of approved asphalt at 60 lb./sq.
2. Matrix 301 System Pro Fibered Aluminum Roof Coating, at 1.5 gal./sq.
3. Matrix 715 MB Coating applied at a rate of 1-1.5 gal./sq.

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



## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each 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 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 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 9B-72 of the Florida Administrative Code.

**END OF THIS ACCEPTANCE**



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