

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 South Florida Building Code, 1994 Edition for Miami-Dade County or Florida Building Code.

DESCRIPTION: US Intec Conventional Built-Up Roofing Systems Over Lightweight Concrete Decks

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 consists of pages 1 through 15.
The submitted documentation was reviewed by Frank Zuloaga, RRC



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ROOFING SYSTEM APPROVAL

<u>Category:</u> Roofing

Sub-Category: Built-Up Roofing

Material: Fiberglass

Deck Type: Lightweight Concrete

Maximum Design Pressure -75 psf

Fire Classification: See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT: TABLE 1

		Test	Product
Product	<u>Dimensions*</u>	Specification	Description
WorkHorse Ultra Base	67 lb. roll	ASTM D 4601	Type II asphalt impregnated and coated glass
Sheet			fiber base sheet.
Brai SP-4 Supreme APP	88 lb. roll	ASTM D 6222	Smooth surface, polyester reinforced, APP
Smooth			modified asphalt membrane.
Brai GSSP-4 Supreme APP	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, APP
Smooth			modified asphalt membrane.
Brai GSSP-4 FR Supreme	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, fire
APP Smooth			resistant, APP modified asphalt membrane.
WorkHorse APP 160	88 lb. roll	ASTM D 6222	Smooth surface, polyester reinforced, APP
Smooth			modified asphalt membrane.
WorkHorse APP 160	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, APP
Granule			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
D : 0	00.11	. CFD . C . C . C . C . C . C . C . C . C .	modified asphalt membrane.
Brai Supreme APP Smooth	88 lb. roll	ASTM D 6222	Smooth surface, polyester reinforced, APP
D : G	10511 11	4 CFD 4 D 4222	modified asphalt membrane.
Brai Supreme APP Granule	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, APP
D : G	10511 11	4 CFD 4 D 4222	modified asphalt membrane.
Brai Supreme APP Granule	105 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, fire
FR	00.11	4 CFD 4 D 4222	resistant, APP modified asphalt membrane.
Brai Supreme Plus APP	90 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, fire
Granule FR	07.11 11	A CITINA D. (222	resistant, APP modified asphalt membrane.
Intec WorkHorse 160 SBS	97 lb. roll	ASTM D 6222	Granule surface, polyester reinforced, SBS
Granule	07.1111	A CTM D COO	modified asphalt membrane.
Brai Supreme SBS Base	87 lb. roll	ASTM D 6222	Smooth surface SBS modified asphalt membrane,
Dani Caranana Eliminatan	70.11,11	A CTM D 4007	polyester reinforcement.
Brai Supreme Eliminator	72 lb. roll	ASTM D 4897	Fiber glass base sheet impregnated and coated on
Nailable Base Sheet	67 lb	Type II	both sides.
Brai Supreme Eliminator	67 lb. roll	ASTM D 4601	Type I asphalt impregnated and coated glass fiber
Perforated Venting Base Sheet		Type I	base sheet with kraft paper backing.
	90 lb. roll	A STM D 6162	Eibaralass base sheet conted with SDS modified
Brai Supreme SBS Glass Base	90 IU. IUII	ASTM D 6163	Fiberglass base sheet coated with SBS modified
Brai Flex ModBase Plus	90 lb. roll	Type I Grade S	asphalt.
	90 ID. FOII	ASTM D 6222	Smooth surface, fiber glass mat and scrim
Supreme Modified HS			reinforced, SBS modified asphalt membrane.



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		Test	Product
Product	Dimensions*	Specification	Description
Brai Sumpreme Ply 4	38 lb. roll	ASTM D 2178	Type IV asphalt impregnated glass felt.
Diar Sampieme Tij	30 10. 1011	Type IV	Type IV aspirant impregnated glass feet.
Brai Sumpreme Ply 4	38 lb. roll	ASTM D 2178 Type VI	Type VI asphalt impregnated glass felt.
Brai Sumpreme Cap Sheet	72 lb. roll	ASTM D 3909	Asphalt impregnated and coated felt surfaced with mineral granules.
Intec WorkHorse Ultra Cap 730 Premier	72 lb. roll	ASTM D 3909	Asphalt impregnated and coated felt surfaced with mineral granules.
Brai Flex Smooth Supreme SBS Poly	88 lb. roll	ASTM D 5147	Smooth surface, polyester reinforced, SBS modified asphalt membrane.
Brai Flex 190 Supreme SBS Poly Granule	97 lb. roll	ASTM D 5147	Granule surface, polyester reinforced, SBS modified asphalt membrane.
Brai Flex 190 FR Supreme SBS Poly Granule	105 lb. roll	ASTM D 5147	Granule surface, polyester reinforced, fire resistant, SBS modified asphalt membrane.
Brai Flex 250 FR Supreme	105 lb. roll	ASTM D 5147	Granule surface, polyester reinforced, fire
Plus SBS Poly Granule Brai Flex FR 4.5 Supreme	105 lb. roll	ASTM D 5147	resistant, SBS modified asphalt membrane. Granule surface, fiberglass reinforced, fire
SBS Glass Granule	69 lb. roll	A CTM D 6164	retardant, SBS modified asphalt membrane.
Brai Supreme SBS Dual FR	09 10. 1011		Granule surface, polyester/fiberglass reinforced, fire resistant, SBS modified asphalt membrane.
Intec Flex Dual FR	69 lb. roll	• I	Granule surface, polyester/fiberglass reinforced,
Three Frex Buai FR	09 10. 1011		fire resistant, SBS modified asphalt membrane.
Intec Flex G4 (Smooth)	90 lb. roll	ASTM D 5147	<u> </u>
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	3' x 3'	Proprietary	Granule surface, SBS modified asphalt membrane walkboard.
Board Flex Asphalt	various	ASTM D 312	SEBS modified mopping asphalt.
Flex Asphalt Plus	various	ASTM D 312	SEBS modified mopping asphalt.
Flex Asphalt Lite	various	ASTM D 312	SEBS modified mopping asphalt.
Brai Supreme/Permaglas	various	ASTM D 312	Mopping Asphalt
Roofing Asphalt			
Matrix SBS Adhesive	various	proprietary	Asphalt based, SBS modified cold adhesive.
Matrix SBS Plus	various	proprietary	Asphalt based, SBS modified cold adhesive.
Matrix SBS Plus Trowel Grade	various	proprietary	SBS modified roof cement.
Fireshield	6 gal. drum	proprietary	A liquid, temporary fire retardant treatment for brush, roll or spray application.
Gravel Guard MB	various	proprietary	Metal edge gravel guard with perforated flange.
MDrain	various	proprietary	Spun aluminum or copper roof drain.
Brai Supreme Mini APP	various	proprietary	Pre-cut widths of polyester reinforced, APP
Smooth MPan	various	proprietary	modified membrane for flashing and repairs. A prefabricated pitch pan and modified bitumen flashing assembly.
MScupper	various	proprietary	Prefabricated scupper.
Preflashed Lead Jack	various	proprietary	Preflashed vent pipe waterproofing assembly.
Standard, Adjustable, One Way MVent	various	proprietary	Prefabricated stack cover for use in soil pipe waterproofing.
Intec Tape	roll	proprietary	Unreinforced APP asphalt used as sealer or filler.



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		Test	Product
Product	Dimensions*	Specification	Description
USIso Roof Insulation	various	PA 110	Polyisocyanurate foam insulation.
USIso Tapered Roof	various	PA 110	Tapered polyisocyanurate insulation.
Insulation			
USIso/Perlite Composite	various	PA 110	Polyisocyanurate foam /perlite composite
			insulation board.
BMCA Permalite	min. 34" thick	PA 110	Perlite and tapered perlite insulation
BMCA Recover	min. 1/2" thick	PA 110	Perlite recover board

TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS: TABLE 2

		Test	Product	
Product	Dimensions	Specification	Description	Manufacturer
Pyrox	min. 4' x 4'	PA 110	Polyisocyanurate foam	Apache Products Co.
			insulation	(with current NOA)
White Line	min. 4' x 4'	PA 110	Polyisocyanurate foam	Apache Products Co.
			insulation	(with current NOA)
ACFoam II	min. 4' x 4'	PA 110	Polyisocyanurate foam	Atlas Energy Products
		T. 110	insulation	(with current NOA)
E'NRG'Y-2	min. 4' x 4'	PA 110	Polyisocyanurate foam	Johns Manville
36.1236	. 43 43	D. 110	insulation	(with current NOA)
Multi-Max	min. 4' x 4'	PA 110	Polyisocyanurate foam	Rmax, Inc.
Multi-Max FA	•		insulation	(with current NOA)
Type X Gypsum	various		Fire resistant rated gypsum.	Generic
DensDeck	min. ¼" thick		Fire resistant company	(with current NOA)
DensDeck	min. ¼ thick		Fire resistant gypsum.	Georgia Pacific (with current NOA)
Olympic CR Base	various	PA 114	Fastener assembly for Base	Olympic
Felt Fastener	various	FA 114	Sheet fastening only	(with current NOA)
FM-30, FM-45, FM-		PA 114	Base ply fastening systems for	ES Products, Inc.
60, FM-90 Fasteners		PA 114	lightweight concrete decks.	(with current NOA)
00, FWI-90 Fastellers			ngntweight concrete decks.	(with current NOA)
Asphalt	various	ASTM D 312	Type III or IV Hot asphalt	Generic
			bitumen adhesive	(with current NOA)
Asphalt Primer	various	ASTM D 41	Asphalt Primer	Generic
				(with current NOA)
Acrylic Roof Coating	various	PA 121	Acrylic roof coating	Gibson Homans
				(with current NOA)
Aluminum Roof	various	PA 121	Aluminum roof coating	Gibson Homans
Coating				(with current NOA)
Alum-A-Gard	various	PA 121	Aluminum roof coating.	ALCO (Nat'l Varnish)
				(with current NOA)
Karnak 97	various	PA 121	Roof coating	Karnak
				(with current NOA)
Endure	various	PA 121	Asphalt emulsion	Monsey Products
D G 1 11 1		D. 101		(with current NOA)
Pro-Grade Aluminum	various	PA 121	Aluminum roof coating	Monsey Products
TT	·	D. 101	*	(with current NOA)
Thermo Super Prep II	various	PA 121	Liquid acrylic coating.	Thermo Materials Corp.
The war Colon Ch. 1.1.1		DA 101	Timeld complice continue	(with current NOA)
Thermo Solar Shield	various	PA 121	Liquid acrylic coating.	Thermo Materials Corp.
				(with current NOA)



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		Test	Product	
Product	Dimensions	Specification	Description	<u>Manufacturer</u>
TRS Top Coat	various	PA 121	Liquid acrylic coating.	Thermo Materials Corp.
				(with current NOA)

EVIDENCE SUBMITTED:

Test Agency/Identifier	<u>Name</u>	Report	<u>Date</u>
Factory Mutual Research	J.I. 3X0A9.AM	FMRC 4470	04/12/94
Corporation	_		
Factory Mutual Research	Letter	Approval Extension	04/13/94
Corporation			
Factory Mutual Research	J.I. 1B7A6.AM	FMRC 4470	05/27/97
Corporation			
Factory Mutual Research	J.I. 3B0A0.AM	FMRC 4470/4454	04/30/97
Corporation			
Factory Mutual Research	J.I. 0D3A3.AM	FMRC 4470/4454	04/04/97
Corporation			
Underwriters Laboratories,	1997 UL Guide	Fire Classification	01/01/97
Inc.		Compliance	
Underwriters Laboratories,	96NK11547	UL 790	05/28/96
Inc.	96NK26146		11/04/96
Warnock Hersey - ITS	484-733400	Physical Properties	07/26/94
Exterior Research &	#3955.05.97-1	Wind Uplift	05/22/97
Design, LLC.		PA 114, Appendix J	



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TYPICAL PROPERTIES:

DYNAMIC PULL-THROUGH PERFORMANCE

Stress	Base	Dynamic Pull-Through
Plate	Sheet	Value (lbf.)
Intec Drill-Tec	Supreme Eliminator Nailable Venting	67
	WorkHorse Ultra Base	76
	Brai Supreme SBS Glass Base	119
	Brai Supreme SBS Glass Base HS	140
	Brai Supreme SBS Base	126
	Brai Supreme APP Smooth	165
SFS Stadler Insul-Fixx S	Supreme Eliminator Nailable Venting	69
	WorkHorse Ultra Base	73
	Brai Supreme SBS Glass Base	109
	Brai Supreme SBS Glass Base HS	185
	Brai Supreme SBS Base	118
	Brai Supreme APP Smooth	173
SFS Stadler Isofast IF/IG	Supreme Eliminator Nailable Venting	105
	WorkHorse Ultra Base	88
	Brai Supreme SBS Glass Base	120
	Brai Supreme SBS Glass Base HS	188
	Brai Supreme SBS Base	218
	Brai Supreme APP Smooth	199
Olympic Standard Metal	Supreme Eliminator Nailable Venting	59
	WorkHorse Ultra Base	74
	Brai Supreme SBS Glass Base	148
	Brai Supreme SBS Glass Base HS	180
	Brai Supreme SBS Base	105
	Brai Supreme APP Smooth	170
ITW Buildex Premium Metal	Supreme Eliminator Nailable Venting	54
	WorkHorse Ultra Base	92
	Brai Supreme SBS Glass Base	124
	Brai Supreme SBS Glass Base HS	204
	Brai Supreme SBS Base	124
	Brai Supreme APP Smooth	158
CF Dekfast Hex Plate	Supreme Eliminator Nailable Venting	54
	WorkHorse Ultra Base	92
	Brai Supreme SBS Glass Base	124
	Brai Supreme SBS Glass Base HS	222
	Brai Supreme SBS Base	112
	Brai Supreme APP Smooth	187
	Dia supreme in Dinoun	107

1Dynamic Pull-Through Values determined in compliance with Miami-Dade County Roofing Protocol PA 117(B) using listed base sheet followed by one ply of type IV ply sheet applied in hot asphalt.

2A 2 to 1 margin of safety has been applied to actual test results resulting in the above noted design values.



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APPROVED ASSEMBLIES

Deck Type 4I: Lightweight Concrete, Insulated, New Construction

Deck Description: Miami Dade Approved Cellular Lightweight Concrete

System Type A: Anchor sheet mechanically fastened, one or more layer of insulation adhered with

approved asphalt.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners	Fastener Density/ft ²
USIso, E'NRG'Y-2, ACFoam II, Multi-Max, Multi-Max FA		
Minimum 1.5" thick	N/A	N/A
USIso/Perlite Composite		
Minimum 1.5" thick	N/A	N/A
Base or Top Insulation Layer	Insulation Fasteners	Fastener Density/ft ²
USIso/Perlite Composite		·
Minimum 1.5" thick	N/A	N/A
BMCA Permalite		
Minimum ³ / ₄ " thick	N/A	N/A
BMCA Permalite Recover		
Minimum ½" 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 ft². 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.

Anchor Sheet: WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Base,

or or Supreme Eliminator Nailable Venting fastened to the deck as described

below:

Fastening: Fasten anchor sheet with ES Products FM-90 fasteners, FM-60 fasteners with FM-

30 disks or Olympic CR Base Felt Fasteners at a 4" side lap 7" o.c. and two rows staggered in the center of the sheet 7" o.c. (meets -45 psf - See General Limitation

#/.)

(minimum 300 psi cellular lightweight concrete): Fasten anchor sheet with Olympic CR Base Felt Fasteners at a 4" side lap 10" o.c. and three rows staggered in the center of the sheet 10" o.c. (meets -60 psf - See General Limitation #7.) (Optional) WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass Base or Brai Supreme SBS Base adhered to the insulated substrate with

a full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.



Base Sheet:

NOA No.: 01-0816.22 Expiration Date: 09/04/03 Approval Date: 01/17/02 Page 7 of 15 Ply Sheet: Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a full

mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Cap Sheet: (Optional) One ply of Brai Supreme Cap Sheet, Intec WorkHorse Ultra Cap 730

Premier, Brai Supreme SBS Poly Granule, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR or Intec G4 Cap adhered in full mopping of approved asphalt applied at a rate of 20-

35 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install one of the following:

1. Karnak 97, Grundy AL MB, Henry's 520 Aluminum, Henry's No. 229 Asphalt Emulsion, Henry's No. 523 Fibered Aluminum, GEO Industries No. 929 Aluminum Emulsion, GEO Industries No. 923 Fibered Aluminum, Monsey Endure Aluminum Roof Coating, Monsey Weather Check, Monsey Pro-Grade Aluminum Roof Coating at 1.5 gal./sq..

2. Flood coat of hot asphalt with an application rate of 60 lbs./sq. ± 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq., respectively.

Maximum Design

Pressure: See fastening requirements above



NOA No.: 01-0816.22 Expiration Date: 09/04/03 Approval Date: 01/17/02 Page 8 of 15 **Deck Type 4I:** Lightweight Concrete, Insulated, New Construction

Deck Description: Celcore Cellular Lightweight Concrete

System Type A(2): Anchor sheet mechanically fastened, one or more layer of insulation adhered with

approved asphalt.

All General and System limitations apply.

Deck: 18-22 ga steel Type B deck shall be secured 6" o.c. to structural supports spaced a

maximum of 5 ft on centers with 5/8" puddle welds. Rigid insulation panels shall be placed in a minimum ½" slurry-coat of insulating concrete and allowed to cure overnight. The following day the rigid insulation shall be covered with a minimum 2" topcoat cast of Celcore. After an additional cure time of 24 hours Celcore PVA

Curing Compound was roller applied at a rate of 300 sq. ft/gal.

One or more layers of any of the following insulations:

Base Insulation Layer	Insulation Fasteners	Fastener Density/ft ²
USIso, Isotherm RA, Isotherm RN		
Minimum 1.5" thick	N/A	N/A
USIso/Perlite Composite		
Minimum 1.5" thick	N/A	N/A
Base or Top Insulation Layer	Insulation Fasteners	Fastener Density/ft ²
USIso/Perlite Composite		_
Minimum 1.5" thick	N/A	N/A
BMCA Permalite		
Minimum ¾" thick	N/A	N/A
BMCA Permalite Recover		
Minimum ½'' 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 ft². 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 a ply of Supreme Eliminator Perforated Venting or a layer of BMCA Permalite or wood fiber overlay board on all isocyanurate applications.

Anchor Sheet: 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 or Supreme Eliminator Nailable Venting fastened to the deck as

described below:

Fastening: Fasten anchor sheet with Olympic CR Base Felt Fasteners and Discs at a 3" side

lap 7" o.c. and two rows staggered in the center of the sheet 7" o.c.



NOA No.: 01-0816.22 Expiration Date: 09/04/03 Approval Date: 01/17/02 Page 9 of 15 Base Sheet: WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Glass

Base or Brai Supreme SBS Base adhered to the insulated substrate with a full

mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Ply Sheet: (Optional) Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a

full mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Cap Sheet: (Optional) One ply of Brai Supreme Cap Sheet, Intec WorkHorse Ultra Cap 730

Premier, Brai Supreme SBS Poly Granule, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR or Intec G4 Cap adhered in full mopping of approved asphalt applied at a rate of 20-

35 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install one of the following:

 Karnak 97, Grundy AL MB, Henry's 520 Aluminum, Henry's No. 229 Asphalt Emulsion, Henry's No. 523 Fibered Aluminum, GEO Industries No. 929 Aluminum Emulsion, GEO Industries No. 923 Fibered Aluminum, Monsey Endure Aluminum Roof Coating, Monsey Weather Check, Monsey Pro-Grade Aluminum Roof Coating at 1.5 gal./sq..

2. Flood coat of hot asphalt with an application rate of 60 lbs./sq. \pm 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq.,

graver of stag with an application rate of 400 lbs./sq. & 500 lbs

respectively.

Maximum Design

Pressure: -75 psf (See General Limitation #7)



NOA No.: 01-0816.22 Expiration Date: 09/04/03 Approval Date: 01/17/02 Page 10 of 15 **Deck Type 4:** Lightweight Concrete, Insulated, New Construction

Deck Description: Miami Dade Approved Cellular Lightweight Concrete

System Type E: Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Base,

or or Supreme Eliminator Nailable Venting fastened to the deck as described

below:

Fastening: Fasten anchor sheet with ES Products FM-90 fasteners, FM-60 fasteners with FM-

30 disks or Olympic CR Base Felt Fasteners at a 4" side lap 7" o.c. and two rows staggered in the center of the sheet 7" o.c. (meets -45 psf - See General Limitation

#7.)

(minimum 300 psi cellular lightweight concrete): Fasten anchor sheet with Olympic CR Base Felt Fasteners at a 4" side lap 10" o.c. and three rows staggered in the center of the sheet 10" o.c. (meets -60 psf - See General Limitation #7.)

Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a full

mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Cap Sheet: (Optional) One ply of Brai Supreme Cap Sheet, Intec WorkHorse Ultra Cap 730

Premier, Brai Supreme SBS Poly Granule, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR or Intec G4 Cap adhered in full mopping of approved asphalt applied at a rate of 20-

35 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install one of the following:

 Karnak 97, Grundy AL MB, Henry's 520 Aluminum, Henry's No. 229 Asphalt Emulsion, Henry's No. 523 Fibered Aluminum, GEO Industries No. 929 Aluminum Emulsion, GEO Industries No. 923 Fibered Aluminum, Monsey Endure Aluminum Roof Coating, Monsey Weather Check, Monsey Pro-Grade

Aluminum Roof Coating at 1.5 gal./sq..

2. Flood coat of hot asphalt with an application rate of 60 lbs./sq. \pm 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq.,

respectively.

Maximum Design

Ply Sheet:

Pressure: See fastening requirements above



NOA No.: 01-0816.22 Expiration Date: 09/04/03 Approval Date: 01/17/02 Page 11 of 15 **Deck Type 4:** Lightweight Concrete, Non-Insulated, New Construction

Deck Description: Elastizell Cellular Lightweight Concrete

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

All General and System limitations apply.

Deck: Min. 22 ga., type B steel decking over 1/4" thick steel supports spaced max. 5 ft. o.c.

attached 6" o.c. using min. 5/8" diameter puddle welds or Traxx/5 fasteners. Deck side laps are attached 18" o.c. using Traxx/1 fasteners. Steel deck is covered with a Elastizell cellular lightweight concrete pour consisting of a 1/8" slurry coat, min.

1" thick Holey Board and a min. 2" thick top coat.

Base Sheet: WorkHorse Ultra Base, Brai Supreme SBS Glass Base, Brai Supreme SBS Base,

or or Supreme Eliminator Nailable Venting fastened to the deck as described

below:

Fastening: Fasten base sheet thru lightweight concrete to the steel sheet with Drill-Tec

Fasteners and Metal Plates at a 4" side lap 12" o.c. and two rows staggered in the

center of the sheet 12" o.c.

Ply Sheet: Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a full

mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Cap Sheet: (Optional) One ply of Brai Supreme Cap Sheet, Intec WorkHorse Ultra Cap 730

Premier, Brai Supreme SBS Poly Granule, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR or Intec G4 Cap adhered in full mopping of approved asphalt applied at a rate of 20-

35 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install one of the following:

1. Matrix Weather Coat Emulsion with an application rate of 3 gal./sq. or Matrix Fibered Aluminum Roof Coating with an application rate of 1.5 gal./sq..

2. Flood coat of hot asphalt with an application rate of 60 lbs./sq. \pm 20%; plus

gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq.,

respectively.

Maximum Design

Pressure: -75 psf (See General Limitation #7)



NOA No.: 01-0816.22 Expiration Date: 09/04/03 Approval Date: 01/17/02 Page 12 of 15 **Deck Type 4:** Lightweight Concrete, Insulated, New Construction

Deck Description: Celcore Cellular Lightweight Concrete

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

All General and System limitations apply.

Deck: 18-22 ga steel Type B deck shall be secured 6" o.c. to structural supports spaced a

maximum of 5 ft on centers with 5/8" puddle welds. Rigid insulation panels shall be placed in a minimum ½" slurry-coat of insulating concrete and allowed to cure overnight. The following day the rigid insulation shall be covered with a minimum 2" topcoat cast of Celcore. After an additional cure time of 24 hours Celcore PVA

Curing Compound was roller applied at a rate of 300 sq. ft/gal.

Base Sheet: 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 or Supreme Eliminator Nailable Venting fastened to the deck as

described below:

Fastening: Fasten anchor sheet with Olympic CR Base Felt Fasteners and Discs at a 3" side

lap 7" o.c. and two rows staggered in the center of the sheet 7" o.c.

Ply Sheet: Two or more plies of Brai Supreme Ply 4 or Brai Supreme Ply 6 with a full

mopping of approved asphalt applied at a rate of 20-35 lbs./sq.

Cap Sheet: (Optional) One ply of Brai Supreme Cap Sheet, Intec WorkHorse Ultra Cap 730

Premier, Brai Supreme SBS Poly Granule, Brai Supreme SBS Poly Granule FR, Brai Supreme Plus SBS Poly Granule FR, Brai Supreme SBS Glass Granule FR or Intec G4 Cap adhered in full mopping of approved asphalt applied at a rate of 20-

35 lbs./sq.

Surfacing: (Required if no cap sheet is used) Install one of the following:

 Karnak 97, Grundy AL MB, Henry's 520 Aluminum, Henry's No. 229 Asphalt Emulsion, Henry's No. 523 Fibered Aluminum, GEO Industries No. 929 Aluminum Emulsion, GEO Industries No. 923 Fibered Aluminum, Monsey Endure Aluminum Roof Coating, Monsey Weather Check, Monsey Pro-Grade Aluminum Roof Coating at 1.5 gal./sq..

2. Flood coat of hot asphalt with an application rate of 60 lbs./sq. \pm 20%; plus gravel or slag with an application rate of 400 lbs./sq. & 300 lbs./sq.,

respectively.

Maximum Design

Pressure: -75 psf (See General Limitation #7)



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LIGHTWEIGHT INSULATING CONCRETE SYSTEM LIMITATIONS:

- If mechanical attachment to the structural deck through the lightweight insulating concrete is
 proposed, a field withdrawal resistance testing shall be performed to determine 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.
- 2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
- 3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.



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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.)

END OF THIS ACCEPTANCE



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