

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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786)315-2590 F (786) 31525-99

www.miamidade.gov/economy

Johns Manville Corporation 717 17th Street Denver, CO 80202

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: Johns Manville Modified Bitumen Roofing Systems over Lightweight Concrete Decks.

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

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

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

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

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

This NOA revises NOA No. 13-0129.16 and consists of pages 1 through 24. The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

Category: Roofing

Sub-Category: Modified Bitumen

Materials: SBS

Deck Type: Lightweight Concrete

Maximum Design Pressure: -290 psf.

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

		Test	Product
Product	Dimensions	Specification	Description
DynaBase	54'-10" x 36"	ASTM D6163	An SBS modified bitumen coated, fiber
		Type I Grade S	glass reinforced base sheet.
DynaBase PR	39-3/8" x 49'2"	ASTM D6164	A polyester mat reinforced, modified
		Type I Grade S	bitumen base or ply sheet
DynaWeld Base	39'-3/8" x 32'-10"	ASTM D6163	An SBS modified bitumen coated,
		Type I Grade S	fiberglass reinforced base sheet for heat welded applications.
DynaBase HW	39-3/8" x 49'2"	ASTM D6163,	An SBS modified bitumen coated,
		Type 1, Grade S	fiberglass reinforced base sheet for heat welded applications.
DynaFast 180 S	39-3/8" x 49'2"	ASTM D6164	A polyester reinforced, SBS modified
			bitumen Base/Ply sheet for use as a base or ply sheet only.
DynaFast 180 HW	39-3/8" x 49'2"	ASTM D6164	A polyester reinforced, SBS modified
			bitumen Base/Ply sheet for use as a base or
			ply sheet only with burn-off film.
DynaFast 250 HW	39-3/8" x 49'2"	ASTM D6164	A 250 gram polyester reinforced, SBS
			modified bitumen Base/Ply sheet for use as
D W 11.0	202 2/0n 202 10n	A CTD 4 D (1 (2)	a base or ply sheet only with burn-off film.
DynaWeld Cap	39'-3/8" x 32'-10"	ASTM D6163	A fire resistant, cool roof (CR), SBS
FR CR	roll weight: 120 lbs.	Type I Grade G	modified bitumen membrane surfaced
Drang Clas ED, CD	39-3/8" x 32'-10";	ASTM D6163	with granules for heat weld applications.
DynaGlas FR CR	roll weight: 101 lbs.	Type I Grade G	A fire resistant, cool roof (CR), SBS modified bitumen membrane surfaced
	Ton weight. Tot los.	Type I Grade G	with granules for application in hot
			asphalt.
DynaGlas	39-3/8" x 32'-10"	ASTM D6163	An SBS modified bitumen membrane
DynaGlas	37-3/8 X 32 -10	Type I Grade G	surfaced with granules for application in
		Type I Grade G	hot asphalt.
DynaWeld Cap FR	39'-3/8" x 32'-10"	ASTM D6163	A fire resistant SBS modified bitumen
Dyna wera cap i ic	37 370 K 32 TO	Type I Grade G	membrane surfaced with granules for heat
		Type I Glade G	weld applications.
DynaWeld Cap	39-3/8" x 32'-10"	ASTM D6164	A fire resistant, polyester reinforced, SBS
180 FR		Type I Grade G	modified bitumen sheet.
DynaWeld Cap 250	39-3/8" x 32'-10"	ASTM D6164	A 250 gram polyester mat reinforced,
FR	37 310 A 32 -10	Type II Grade G	granular-surfaced, modified bitumen cap
110		Type II Glade G	sheet for use in heat weld applications.
			show for about more applications.



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		Test	Product
Product	Dimensions	Specification	Description
DynaWeld Cap 250	39-3/8" x 32'-10"	ASTM D6164	A 250 gram polyester mat reinforced,
FR CR		Type II Grade G	white acrylic coated granular-surfaced,
			modified bitumen cap sheet for use in
			heat weld applications.
DynaWeld Cap 250	39-3/8" x 32'-10"	ASTM D6164	A 250 gram polyester mat reinforced,
		Type II Grade G	
			sheet for use in heat weld applications.
DynaWeld Cap 250 S	39-3/8" x 32'-10"	ASTM D6164	A 250 gram polyester mat reinforced,
		Type II Grade S	modified bitumen ply sheet for use in heat
			weld applications.
DynaGlas 30 FR	39-3/8" x 32'-10"	ASTM D6163	A fire resistant SBS modified bitumen
		Type I Grade G	membrane surfaced with granules for
D CI ED	20.2/02 22.102	A CEN 4 D (1/2	application in hot asphalt.
DynaGlas FR	39-3/8" x 32'-10"	ASTM D6163	A fire resistant SBS modified bitumen
		Type I Grade G	membrane surfaced with granules for
D	20.2/02 222.102	A CTM D (1/2	application in hot asphalt.
DynaKap FR T1	39-3/8" x 32'-10"	ASTM D6162	A fire resistant, fiberglass/ polyester reinforced SBS modified bitumen
		Type I Grade G	membrane surfaced with granules for
			application in hot asphalt.
DynaLastic 180	39-3/8" x 32'-10"	ASTM D6164	A polyester reinforced SBS modified
DynaLastic 100	3)-3/6 X 32 -10	Type I Grade G	bitumen membrane surfaced with
		Type I Grade G	granules for application in hot asphalt.
DynaLastic 180 FR	39-3/8" x 32'-10"	ASTM D6164	A 180 gram polyester mat reinforced,
Dynamasire 100 11t	59 576 N 52 10	Type I Grade G	granular-surfaced, modified bitumen cap
		Type I Simue S	sheet for use in fire-rated systems.
DynaLastic 180 S	37" x 36'-9"	ASTM D6164	A 180 gram polyester mat reinforced,
<i>y</i>		Type I	modified bitumen cap sheet for use in
		71	fire-rated systems.
DynaWeld 180 S	39-3/8" x 32'-10"	ASTM D6162	A 180 gram polyester mat reinforced,
		Type I	modified bitumen base or ply sheet
DynaPly T1	39-3/8" x 32'-10"	ASTM D6162	A polyester reinforced SBS modified
		Type II, Grade S	bitumen ply sheet for use in conventional
			and modified bitumen built-up roof
			systems.
DynaLastic 250 FR	39-3/8" x 32'-10"	ASTM D6164	A 250 gram polyester mat reinforced,
		Type II Grade G	granular-surfaced, modified bitumen cap
			sheet for use in fire-rated systems.
DynaLastic 250	39-3/8" x 32'-10"	ASTM D6164	A 250 gram polyester mat reinforced,
FR CR		Type II Grade G	•
			modified bitumen cap sheet for use in
DIti- 250 C	20.2/01 - 222.102	ACTIVED CLC4	fire-rated systems.
DynaLastic 250 S	39-3/8" x 32'-10"	ASTM D 6164	A 250 gram polyester reinforced, SBS
		Type II Grade S	modified bitumen Base/Ply sheet for use
			as a base or ply sheet only.



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		Test	Product
Product	Dimensions	Specification	Description
DynaMax FR	39-3/8" x 32'-10"	ASTM D6162	A fire resistant, fiberglass/ polyester
		Type III Grade G	reinforced SBS modified bitumen
			membrane surfaced with granules for
DymoMoy C	39-3/8" x 32'-10"	ASTM D6162	application in hot asphalt. Fiberglass/ polyester reinforced SBS
DynaMax S	39-3/8 X 32 -10		modified bitumen base or ply sheet
DynaBase XT	39-3/8" x 49'-2"	ASTM D6163	A heavyweight glass reinforced SBS
y		Type I Grade S	Base/Ply sheet.
DynaGlas FR XT	39-3/8" x 32'-10"	ASTM D6163	A heavyweight glass reinforced granular
		Type I Grade S	surfaced SBS Cap sheet.
Ventsulation Felt	36" x 36'	ASTM D4897	Heavy duty fiber glass base sheet
		Type II	impregnated and coated on both sides
			with asphalt with or without fine mineral stabilizer. Surfaced on the bottom side
			with coarse mineral granules embedded in
			asphaltic coating.
GlasBase Plus	36" x 108'	ASTM D4601	Type II asphalt impregnated and coated
			glass fiber base sheet for use in
			conventional and modified bitumen built-
D DI 40	269 1063	1 GTD 1 D 1 CO1	up roofing.
PermaPly 28	36" x 106'	ASTM D4601	Type II asphalt impregnated and coated
		Type II	glass fiber base sheet for use in conventional and modified bitumen built-
			up roofing.
FesCant Plus Cant	various	ASTM C728	Factory pre-fabricated cant strips and
Strips, and Taper Edge			taper edge, manufactured from expanded
1 7 1 6			perlite insulation.
MBR Flashing	N/A	Proprietary	A two component elastomeric, cold
Cement Base and			application adhesive, consisting of a
Activator			modified proprietary compound with an
MBR Bonding	N/A	proprietary	asphalt base. A two component urethane cold
Adhesive	IN/A	proprietary	application adhesive.
MBR Cold	5, 55, and 350 gal	ASTM D 3019,	One part, elastomeric cold application
Application Adhesive	5, 55, and 550 gai	Type III	adhesive
MBR RA Membrane	1.5L Cartridge	Proprietary	Two part, cold process membrane
Adhesive	1.3L Cartriage	rioprictary	adhesive
		ACTM DASOC	
Bestile Industrial Roof Cement	various	ASTM D4586, Type I	A trowel grade, cutback bitumen flashing grade cement mixture including inorganic
Cement		Type I	fibers and mineral stabilizers.
Flex-I-Drain	various	BOCA 76-61	Two piece flexible drain system
		SBCCI 89204	composed of a Noryl deck flange, a
		UBC 3236	flexible neoprene bellows and no hub
			connection. Available in various sizes
DC/DET D.4 D.		N T / A	and styles for most retro-fit applications.
PC/PET RetroDrain	various	N/A	Engineered resin copolymer fabricated
			drain for retrofit applications.



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		Test	Product
Product	Dimensions	Specification	Description
SuperDome RetroDrain	various	N/A	Cast aluminum, heavy-duty drain for retrofit applications.
USII RetroDrain	various	N/A	One piece, aluminum fabricated drain for retrofit applications.
FP-10 Vents	10" deck flange, base diameter of 4" and a height of 6"	N/A	One-way roof vent, designed for use in various roof systems, for the release of pressure created by gases or moisture vapor trapped within the roofing system.
Expand-O-Guard	various	N/A	Elastomeric expansion joint cover for vertical expansion and seismic joints. Manufactured from non-reinforced, form-supported elastomeric bellows with a bifurcated waterproof attachment to metal flanges.
Expand-O-Flash	various	N/A	Expansion joint covers manufactured from non-reinforced, form-supported elastomeric bellows with a bifurcated waterproof attachment to metal flanges.
Presto-Lok Fascia and Flashing System	various	TAS 114	A multi-piece fascia and flashing system for built-up and modified bitumen roofing systems manufactured from aluminum or steel.
DynaTred & DynaTred Plus Roof Walkway	various	N/A	Preformed, skid-resistant boards.

APPROVED INSULATIONS:

TABLE 2
Product Name Product Description

N/A N/A



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Manufacturer (With Current NOA)

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APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	UltraLok	Base sheet fastener with integrated Plate.	2.7" dia. Plate	Johns Manville
2.	Lightweight Concrete (LWC) CR Base Fastener	Galvanized double spreading leg fastener for securing base sheets to lightweight insulating concrete.	1.2" or 1.7" leg length; 2.7" dia. Plate	Johns Manville
5.	Metal Batten TL	Oval pre-punched metal batten bar.	1" x 100' coil	Johns Manville
3.	Twin Loc-Nail	Base sheet fastener with and without integrated Plate.	2.7" dia. Plate	Altenloh, Brink & Co. U.S., Inc.
7.	Straight Line Batten Bar	Oval pre-punched metal batten bar	1" x 100' coil	Altenloh, Brink & Co. U.S., Inc.
8.	UltraLok Tube	Base sheet fastener without integral plate.	Min. 1.8" length	Johns Manville
9.	High Load Fasteners	Insulation and membrane fastener for steel, wood or concrete.	#15 x 14" Max. Length #3 Phillips head	Johns Manville
10.	High Load Plate	Steel Seam plate with reinforcing ribs and eyehooks.	2-3/8" round	Johns Manville



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EVIDENCE SUBMITTED:

Test Agency/Identifier	<u>Name</u>	Report	Date
Underwriters Laboratories, Inc.	R10167	UL 790	05/27/13
Factory Mutual Research Corp.	3001482	FM 4470	08/11/98
	3001629	FM 4470	09/10/98
	0Z8A9.AM	FM 4470	09/10/98
	3D4A4.AM	FM 4470	09/28/98
	3009499	FM 4470	04/04/01
	107A4.AM	FM 4470	11/09/98
	3007148	FM 4450	04/19/00
	3006346	FM 4450	09/15/00
	3001457	FM 4470	03/04/02
	3012974	FM 4450	06/03/02
	3014090	FM 4470	09/05/02
	3011248	FM 4470	11/01/02
	3026130	FM 4470	04/26/09
Exterior Research & Design, LLC	#4361-2.04.97-1	TAS 114	04/28/97
	#4361-2.041	TAS 114	04/00/97
	#10390A-10.97-1	TAS 114	10/00/97
	#10390A-12.97-1	TAS 114	12/00/97
	#4251.08.96-1	TAS 114	01/20/99
	00257.03.05-1	ASTM D6162/D6163	03/17/05
		ASTM D6164/D6298	
Trinity ERD	02843.02.07	TAS 114	02/07/07
-	J7670.06.08	ASTM D3909	06/16/08
	J6990.12.07-R1	ASTM D6162/D6164	03/24/10
	J17040.11.09	ASTM D6164	11/16/09
	J13700.05.10-1-R1	ASTM D5147/D6163	01/25/11
	J13700.05.10-2	ASTM D5147/D6164	05/11/10
	10391.01.03	TAS 114	01/29/03
	J5260.03.07	TAS 114 (J)	06/06/07
	J45020.07.13	TAS 114	07/12/13
	J34190.03.11	TAS 114 (J)	04/04/11
Independent Roof Testing &	IRT99001	TAS 114	01/20/99
Consultants of South Florida	IRT99002	TAS 114	01/20/99
	IRT99003	TAS 114	01/20/99
	IRT99005	TAS 114	01/20/99
	IRT99013	TAS 114	01/20/99
Atlantic & Caribbean Roof	ACRC 03012	TAS 114	12/04/03
Consulting, LLC	ACRC 03015		09/30/03
	ACRC 07-014		04/18/07
IRT-ARCON Inc.	02-011	TAS 114	02/06/02



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EVIDENCE SUBMITTED: (CONT.)

Test Agency/Identifier	<u>Name</u>	Report	Date
PRI Construction Materials	JMC-066-02-01	ASTM D6163	06/04/12
Technologies, LLC	JMC-065-02-01	ASTM D6163	05/29/12
	JMC-070-02-01	ASTM D2178 Type IV	04/17/12
	JMC-071-02-01	ASTM D2178 Type VI	04/17/12
	JMC-072-02-01	ASTM D4601 Type II	06/14/12
	JMC-074-02-01	ASTM D4897 Type II	04/17/12
	JMC-075-02-04.2	ASTM D5147/D6164 Type II	12/27/13
	JMC-078-02-01	ASTM D5147/D6298	07/17/12
	JMC-081-02-01.02	TAS 117 B & C	06/11/12
	JMC-091-02-01	ASTM D4601 Type I	06/04/12
	JMC-093-02-01	ASTM D4601 Type II	08/02/12
	JMC-105-02-01	ASTM D5147/D6162	05/22/13
		Type III, Grade G	
	JMC-106-02-01	ASTM D 6164	04/15/13
	JMC-107-02-01 Rev 4	ASTM D 903	11/01/13
		ASTM D 1876	
		ASTM D 5147	
		TAS 117(B)	
		TAS 117(A)	
		TAS 114(C)	
	JMC-108-02-01	FM 4474 (D)/TAS 114 (J)	04/16/13
	JMC-109-02-01 Rev 2	FM 4474 (D)/TAS 114 (J)	11/11/13
	JMC-113-02-01	ASTM D 6164	04/19/13
	JMC-131-02-01	FM 4474 (B)/TAS 114 (D)	04/17/13
	JMC-132-02-01	FM 4474 (B)/TAS 114 (D)	04/17/13
	JMC-132-02-02	FM 4474 (B)/TAS 114 (D)	07/01/13
	JMC-141-02-01	FM 4474 (D)/TAS 114 (J)	04/18/13
	JMC-171-02-01	ASTM D6163	01/10/14
	JMC-171-02-02	ASTM D6163	01/10/14
	JMC-171-02-10	ASTM D6162	01/10/14
	JMC-171-02-03	ASTM D6164	01/10/14
	JMC-222-02-01	FM 4474 (B)/TAS 114 (J)	03/12/15
	JMC-222-02-02	FM 4474 (B)/TAS 114 (J)	04/22/15
	JMC-222-02-04	FM 4474 (B)/TAS 114 (J)	08/14/15



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APPROVED ASSEMBLIES

Membrane Type: SBS

Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore Lightweight Concrete

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

Deck: Min. 271 psi Celcore MF; Min. 1/8" slurry coat; Min. 1" EPS board; Min. 2" top

coating with PVA curing compound cast over Cementitious Wood Fiber, Structural concrete or Min. 22 ga Type B steel deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft o.c. with Tek/5 Screws spaced 6 in.

o.c. Side laps attached with Tek/1 screws spaced 12 in. o.c.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier: (For structural concrete; Optional) DynaBase HW torch applied to structural

concrete deck prepared with ASTM D41 primer.

Base Sheet: One ply of DynaWeld Base fastened to the deck as described below:

Fastening: Fasten base sheet with JM LWC CR Base Fastener at the minimum 4" side lap 7"

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

Ply Sheet: (Optional) One or more plies of DynaBase HW, DynaWeld 180 S, DynaWeld

Base, DynaFast 180 HW, DynaWeld Cap 250 S or DynaFast 250 HW heat welded.

Membrane: One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap 180 FR,

DynaWeld Cap 250, DynaWeld Cap 250 FR or DynaWeld Cap 250 FR CR heat

welded.

Maximum Design

Pressure: -45 psf. (See General Limitation #7)



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore Lightweight Concrete

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

Deck: Min. 324 psi Celcore MF; Min. 1/8" slurry coat; Min. 1" EPS board; Min. 2" top

coating with PVA curing compound cast over Cementitious Wood Fiber, Structural concrete or Min. 22 ga Type B steel deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft o.c. with Tek/5 Screws spaced 6 in.

o.c. Side laps attached with Tek/1 screws spaced 12 in. o.c.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier: (For structural concrete; Optional) DynaBase HW torch applied to structural

concrete deck prepared with ASTM D41 primer.

Base Sheet: One ply of DynaWeld Base fastened to the deck as described below:

Fastening: Fasten base sheet with JM LWC CR Base Fasteners at the minimum 4" side lap 7"

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

Ply Sheet: (Optional) One or more plies of DynaBase HW, DynaWeld 180 S, DynaWeld

Base, DynaFast 180 HW, DynaWeld Cap 250 S or DynaFast 250 HW heat welded.

Membrane: One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap 180 FR,

DynaWeld Cap 250, DynaWeld Cap 250 FR or DynaWeld Cap 250 FR CR heat

welded.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore Lightweight Concrete

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

Deck: Min. 498 psi Celcore MF with Celcore HS Rheology Modifying Admixture; Min.

1/8" slurry coat; Min. 1" EPS board; Min. 2" top coating with PVA curing compound cast over Cementitious Wood Fiber, Structural concrete or Min. 22 ga

Type B steel deck shall be secured 6" o.c. to structural supports spaced a

maximum of 5 ft o.c. with 5/8" puddle welds spaced 6 in. o.c. Side laps attached

with $\frac{1}{4}$ " – 14 x 7/8" HWH SD screws with $\frac{1}{2}$ " washer spaced 15 in. o.c.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier: (For structural concrete; Optional) DynaBase HW torch applied to structural

concrete deck prepared with ASTM D41 primer.

Base Sheet: One ply of DynaFast 180 HW, DynaFast 180 S, or DynaFast 250 HW

mechanically fastened with UltraLok Tube or Twin-Loc Nail and Metal Batten TL or Straight Line Batten Bar spaced 6" o.c. in the center of the minimum 4" torch

welded side laps.

Ply Sheet: (Optional) One or more plies of DynaFast 180 HW, DynaWeld Cap 250 S or

DynaFast 250 heat welded while maintaining minimum 4" side laps and 6" end

laps.

Membrane: One or more plies of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap

180 FR, DynaWeld Cap 250, Dynaweld Cap 250 FR or DynaWeld Cap 250 FR

CR heat welded while maintaining 4" side laps and 6" end laps.

Maximum Design

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



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore Lightweight Concrete

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

Deck: Min. 498 psi Celcore MF with Celcore HS Rheology Modifying Admixture; Min.

1/8" slurry coat; Min. 1" EPS board; Min. 2" top coating with PVA curing compound cast over Cementitious Wood Fiber, Structural concrete or Min. 22 ga

Type B steel deck shall be secured 6" o.c. to structural supports spaced a

maximum of 5 ft o.c. with 5/8" puddle welds spaced 6 in. o.c. Side laps attached

with $\frac{1}{4}$ " – 14 x 7/8" HWH SD screws with $\frac{1}{2}$ " washer spaced 15 in. o.c.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier: (For structural concrete; Optional) DynaBase HW torch applied to structural

concrete deck prepared with ASTM D41 primer.

Base Sheet: One ply of DynaFast 180 S mechanically fastened with UltraLok Tube or Twin-

Loc Nail and Metal Batten TL or Staight Line Batten Bar spaced 6" o.c. in the

center of the minimum 4" torch welded side laps.

Ply Sheet: (Optional) One or more plies of DynaFast 180 S, DynaPly T1 or DynaLastic 250 S

adhered in MBR Cold Application Adhesive at a rate of 1.5-2 gal./sq. or approved

asphalt with the EVT range at a rate of 20-40 lbs./sq

Membrane: One or more plies of DynaGlas FR, DynaLastic 180, DynaLastic 180 FR,

DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR or DynaLastic 250 FR CR adhered in MBR Cold Application Adhesive at a rate of 1.5-2 gal./sq. or approved asphalt with the EVT range at a rate of 20-40 lbs./sq

while maintaining 4" side laps and 6" end laps.

Maximum Design

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



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore Lightweight Concrete

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

Deck: Min. 352 psi Celcore MF with Celcore HS Rheology Modifying Admixture; Min.

1/8" slurry coat; Min. 1" EPS board; Min. 2" top coating with PVA curing compound cast over Cementitious Wood Fiber, Structural concrete or Min. 22 ga

Type B steel deck shall be secured 6" o.c. to structural supports spaced a

maximum of 5 ft o.c. with Tek/5 screws spaced 6 in. o.c. Side laps attached with

Tek/1 screws spaced 20 in. o.c.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Vapor Barrier: (For structural concrete; Optional) DynaBase HW torch applied to structural

concrete deck prepared with ASTM D41 primer.

Base Sheet: One ply of PermaPly 28 mechanically fastened with JM LWC CR Base Fastener

spaced 6" o.c. in the center of the minimum 4" side laps and 6" in three staggered

rows in the center of the sheet.

Ply Sheet: One ply of DynaBase, DynaBase PR, DynaPly T1, DynaBase XT, DynaMax S,

DynaFast 180 S, DynaLastic 180 S or DynaLastic 250 S fully adhered in MBR Cold Application Adhesive at an application rate of 1.5-2.0~gal/sq. or approved

asphalt with the EVT range at a rate of 20-40 lbs./sq.

Membrane: One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas

FR, DynaLastic 180, DynLastic 180 FR, DynaLastic 180 FR CR, DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR or DynaLastic 250 FR CR fully adhered in MBR Cold Application Adhesive at an application rate of 1.5 – 2.0 gal/sq. or approved asphalt with the EVT range at a rate of 20-40 lbs./sq

while maintaining 4" side laps and 6" end laps.

Maximum Design

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



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Min. 442 psi Generic Cellular Lightweight Concrete.*Lightweight should record a

Minimum Characteristic Resistance Force (MCRF) of 133 lbf when tested with

JM LWC CR Base Fasteners in accordance with TAS 105.

System Type E(6): Base sheet mechanically fastened.

Deck: Min. 1" EPS board; placed in minimum ½" slurry, followed by minimum 2"

topcoat cast over Min. 22 ga Type B steel deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft o.c. with Tek/5 screws spaced 6 in.

o.c. Side laps attached with Tek/1 screws spaced 20 in. o.c.

All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

Base Sheet: One ply of PermaPly 28 mechanically fastened with JM LWC CR Base Fastener

spaced 9" o.c. in the center of the minimum 4" side laps and 9" in three staggered

rows in the center of the sheet.

Ply Sheet: One ply of DynaBase, DynaBase PR, DynaPly T1, DynaBase XT, DynaMax S,

DynaFast 180 S, DynaLastic 180 S or DynaLastic 250 S fully adhered in MBR Cold Application Adhesive at an application rate of 1.5 – 2.0 gal/sq. or approved

asphalt with the EVT range at a rate of 20-40 lbs./sq.

Membrane: One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas

FR, DynaLastic 180, DynLastic 180 FR, DynaLastic 180 FR CR, DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR or DynaLastic 250 FR CR fully adhered in MBR Cold Application Adhesive at an application rate of 1.5 – 2.0 gal/sq. or approved asphalt with the EVT range at a rate of 20-40 lbs./sq

while maintaining 4" side laps and 6" end laps.

Maximum Design

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



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore Lightweight Concrete

System Type E(7): Base sheet mechanically fastened.

Deck: Minimum 414 psi Celcore MF with Celcore HS Rheology Modifying Admixture

> with minimum 1/4" slurry coat; minimum 1" EPS board; minimum 2" top coat with PVA curing compound cast over Cementitious Wood Fiber, Structual Concrete or Minimum 22 ga. Type B steel deck treated with Celcore S-1 secured with 5/8" diameter puddle welds at each flute with structural supports spaced a maximum 5 ft o.c. Side laps attached with $\frac{1}{4}$ " – 14 x 7/8" HWH screws spaced

12" o.c.

All General and System limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.

(For structural concrete; Optional) DynaBase HW torch applied to structural Vapor Barrier:

concrete deck prepared with ASTM D41 primer.

Base Sheet: (Option 1): One ply of DynaFast 180 HW or DynaFast 250 HW installed with

Trufast Straight Line Batten Bar and 1.8" Twin Loc-Nails fastened 6" o.c. within

the torch adhered 4" side laps.

(Option 2): One ply of DynaFast 180 S Trufast Straight Line Batten Bar and 1.8"

Twin Loc-Nails fastened 6" o.c. within the torch adhered 4" side laps.

Ply Sheet Optional: (Option 1) One or more plies of DynaFast 180 HW, DynaFast 250 HW, or

DynaWeld 250 S torch adhered.

(Option 2 – only over DynaFast 180 S) DynaFast 180 S, DynaPly T1, DynaLastic 180 S, or DynaLastic 250 S, fully adhered in JM MBR Cold Application Adhesive

applied at a rate of 50 - 70 ft² / gal.

Membrane: (Option 1) DynaWeld Cap, DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld

Cap 180 FR, DynaWeld Cap 180 FR CR, DynaWeld Cap 250, DynaWeld Cap 250

FR, DynaWeld Cap 250 FR CR torch adhered with 3-inch side laps.

(Option 2 – only over Base Sheet Option 2 or Ply Sheet Option 2) DynaGlas 30 FR, DynaGlas, DynaGlas FR, DynaGlas FR CR, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR fully adhered in JM MBR Cold Application Adhesive applied

at a rate of 50 - 70 ft² / gal. with 3-inch side laps.

Maximum Design

Pressure: -52.5 psf (See General Limitation #7.)



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore Lightweight Concrete

System Type E(8): Base sheet mechanically fastened.

Deck: Minimum 347 psi Celcore MF with Celcore HS Rheology Modifying Admixture

with minimum 1/4" slurry coat; minimum 1" EPS board; minimum 2" top coat with PVA curing compound cast over Cementitious Wood Fiber, Structual Concrete or Minimum 22 ga., Type B, steel deck treated with Celcore S-1 secured

with 5/8" diameter puddle welds at each flute with structural supports spaced a maximum 5 ft o.c. side laps attached with $\frac{1}{4}$ " – 14 x $\frac{7}{8}$ " HWH screws spaced

12" o.c.

All General and System limitations apply.

Vapor Barrier: (For structual concrete; Optional) DynaBase HW torch applied to structural

concrete deck prepared with ASTM D41 primer.

Base Sheet: (Option 1) One ply of GlasBase Plus or Ventsulation Felt with 4" laps installed

with 1.7" LWC CR Base Sheet Fasteners fastened 12" o.c. in the 4" lap and 12"

o.c. in three, equally spaced staggered rows in the field of the roll.

(Option 2) One ply of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S, or DynaLastic 250 S with 4" laps installed with 1.7" LWC CR Base Sheet Fasteners fastened 12" o.c. in the 4" lap

and 12" o.c. in three, equally spaced staggered rows in the field of the roll.

Ply Sheet: One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast

180 HW, DynaWeld 250 S, or DynaFast 250 HW with 4" laps torch adhered.

Membrane: DynaWeld Cap, DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap 180

FR, DynaWeld Cap 180 FR CR, DynaWeld Cap 250, DynaWeld Cap 250 FR, or

DynaWeld Cap 250 FR CR with 4" side laps torch adhered.

Maximum Design

Pressure: -45 psf. (See General Limitation #7.)



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Elastizell Lightweight Concrete **System Type E(9):** Base sheet mechanically fastened.

Deck: Min. 403 psi Elastizell cellular lightweight concrete. Min. 1/8" slurry coat; Min.

1" EPS board; Min. 2" top coat, cast over Min. 22 ga Type B steel deck secured with 5/8" diameter puddle welds at each flute with structural supports spaced a maximum 5 ft o.c. Side laps attached with $\frac{1}{4}$ " – $14 \times 7/8$ " HWH screws spaced

12" o.c.

All General and System Limitations apply.

Base Sheet: One ply of DynaFast 180 HW, DynaFast 180 S, or DynaFast 250 HW

mechanically fastened with High Load Fasteners and High Load Plates spaced 12"

o.c. in the center of the minimum 5" heat welded side laps.

Ply Sheet Optional: (Option 1- only over DynaFast 180 S) One or more plies of DynaFast 180 S,

DynaPly T1, or DynaLastic 250 S adhered in JM MBR Cold Application Adhesive

applied at a rate of $50 - 70 \, f^{12} / \text{gal}$.

(Option 2 - only over DynaBase) DynaFast 180 HW, DynaWeld 250 S, or

DynaFast 180 HW torch adhered.

Membrane: (Option 1 – not over DynaFast 180 HW or 250 HW) One or more plies of

DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR, DynaLastic180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR, DynaLastic FR CR with 4" side laps adhered in JM MBR Cold Application Adhesive applied at a rate of 50 – 70 ft²/ gal. (Option 2 - not over DynaFast 180 HW or 250 HW) One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR, DynaLastic FR CR with 4" side laps adhered

in ASTM D 312, Type IV asphalt applied at a rate of 20 – 40 lbs/sq. (Option 3) DynaWeld Cap, DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap 180 FR, DynaWeld Cap 250,

DynaWeld Cap 250 FR, or DynaWeld Cap FR CR with 4" side laps torch adhered.

Maximum Design

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



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Deck Type 7: Lightweight Concrete, Non-insulated

Deck Description: Elastizell Lightweight Concrete **System Type E(10):** Base sheet mechanically fastened.

Deck: Min. 398 psi Elastizell cellular lightweight concrete. Min. 1/4" slurry coat; Min.

1" EPS board; Min. 2" top coat, cast over Structural concrete or Min. 22 ga Type B steel deck secured with 5/8" diameter puddle welds at each flute with structural supports spaced a maximum 5 ft o.c. Side laps attached with $\frac{1}{4}$ " – $14 \times 7/8$ " HWH

screws spaced 12" o.c.

All General and System limitations apply.

Base Sheet: One ply of PermaPly 28, GlasBase Plus, DynaBase, or Ventsulation Felt

mechanically fastened with 1.7" LWC CR Base Sheet Fasteners spaced 7" o.c. in the 4" lap and 7" o.c. in the center in two (2) equally spaced staggered rows in the

field of the roll.

Ply Sheet Optional: (Option 1- only over DynaBase) One or more plies of DynaBase, DynaBase PR,

DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S, or DynaLasic 250 S adhered in JM MBR Cold Application Adhesive applied at a rate

of 50 - 70 ft2 / gal.

(Option 2 – only over DynaBase) One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S, or DynaLasic 250 S adhered in JM MBR Bonding Adhesive applied at a rate of 50 –

70 ft2 / gal.

(Option 3) One or more plies of DynaWeld Base, DunaBase HW, DynaWeld 180 S, DynaFast 180 HW (cap must be torched), DynaWeld 250 S, or DynaFast 250

HW (cap must be torched).

Membrane: (Option 1) One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR,

DynaGlas FR, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR,

DynaLastic 250 FR CR with 4" side laps adhered in JM MBR Cold Application

Adhesive applied at a rate of 50 - 70 ft2/gal.

(Option 2) One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR, DynaLastic FR CR with 4" side laps adhered in JM MBR Bonding Adhesive

applied at a rate of 50 - 70 ft2 / gal.

(Option 3) One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR,

DynaLastic FR CR with 4" side laps adhered in ASTM D 312, Type IV asphalt

applied at a rate of 2-40 lbs/sq.

(Option 4) One or more plies of DynaWeld Cap, DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap 180 FR, DynaWeld Cap 180 FR CR, DynaWeld Cap

250, DynaWeld Cap 250 FR, or DynaWeld Cap FR CR torch adhered.

Maximum Design

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



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Celcore Lightweight Concrete

System Type E(11): Base sheet mechanically fastened.

Deck: Min. 414 psi cellular lightweight Celcore MF with Celcore HS Rheology

Modifying Admixture . Min. 1/4" slurry coat; Min. 1" EPS board; Min. 2" top coat, cast cast over Cementitious Wood Fiber, Structual Concrete or Minimum 22 ga., Type B, steel deck treated with Celcore S-1 secured with 5/8" diameter puddle welds at each flute with structural supports spaced a maximum 5 ft o.c.

side laps attached with $\frac{1}{4}$ " – 14 x 7/8" HWH screws spaced 12" o.c.

All General and System limitations apply.

Vapor Barrier: (For structural concrete; Optional) DynaBase HW torch applied to structural

concrete deck prepared with ASTM D41 primer.

Base Sheet: One ply of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast

180 S, DynaPly T1, DynaMax S, or DynaLastic 250 S mechanically fastened with 1.7" LWC CR Base Sheet Fastener spaced 12" o.c. in the 4" lap and 12" o.c. in the

field of the roll in two (2) equally spaced staggered rows in the field.

Ply Sheet: One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast

180 HW, DynaWeld 250 S, or DynaFast 250 HW torch adhered with 4" side laps.

Membrane: One or more plies of DynaWeld Cap, DynaWeld Cap FR, DynaWeld Cap FR CR,

DynaWeld Cap 180 FR, DynaWeld Cap 180 FR CR, DynaWeld Cap 250,

DynaWeld Cap 250 FR, or DynaWeld Cap FR CR torch adhered with 4" side laps.

Maximum Design

Pressure: -52.5 psf. (See General Limitation #7)



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Deck Type 4: Lightweight Concrete, Non-insulated

Deck Description: Min. 200 psi Lightweight Concrete

System Type E(12): Base sheet mechanically fastened.

Deck: Minimum 200 psi lightweight insulating concrete with minimum 1/8" slurry coat;

minimum 1" EPS board; minimum 2" top coat minimum 22 ga. Type B steel deck treated with 5/8" diameter puddle welds at each flute with structural supports spaced a maximum 5 ft o.c. Side laps attached with $\frac{1}{4}$ " – $14 \times 7/8$ " HWH screws spaced 12" o.c. The LWIC should record a Minimum Characteristic Resistance Force (MCRF) of 169 lbf when tested with 1.7" LWC CR Base Sheet Fastener in

accordance with TAS 105.

All General and System limitations apply.

Vapor Barrier: (For structural concrete; Optional) DynaBase HW torch applied to structural

concrete deck prepared with ASTM D41 primer.

Base Sheet: (Option 1): One ply of DynaFast 180 HW or DynaFast 250 HW installed with

High Load fasteners and High Load Plates fastened 6" o.c. within the torch

adhered 4" side laps.

(Option 2): One ply of High Load fasteners and High Load Plates fastened 6" o.c.

within the torch adhered 4" side laps.

Ply Sheet Optional: (Option 1) One or more plies of DynaFast 180 HW, DynaFast 250 HW, or

DynaWeld 250 S torch adhered.

(Option 2 – only over DynaFast 180 S) DynaFast 180 S, DynaPly T1, DynaLastic 180 S, or DynaLastic 250 S, fully adhered in JM MBR Cold Application Adhesive

applied at a rate of 50 - 70 ft² / gal.

Membrane: (Option 1) DynaWeld Cap, DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld

Cap 180 FR, DynaWeld Cap 180 FR CR, DynaWeld Cap 250, DynaWeld Cap 250

FR, DynaWeld Cap 250 FR CR torch adhered with 3-inch side laps.

(Option 2 – only over Base Sheet Option 2 or Ply Sheet Option 2) DynaGlas 30 FR, DynaGlas, DynaGlas FR, DynaGlas FR CR, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaGlas FR XT, DynaKap FR T1, DynaMax FR, DynaLastic 250 FR fully adhered in JM MBR Cold Application Adhesive applied

at a rate of 50 - 70 ft² / gal. with 3-inch side laps.

Maximum Design

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



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Deck Type 4: Lightweight Concrete

Deck Description: Celcore Lightweight Concrete

System Type F(1): Base sheet adhered in approved adhesive.

Deck : Min. 498 psi Celcore MF with Celcore HS Rheology Modifying Admixture; Min.

1/8" slurry coat; Min. 1" EPS board; Min. 2" top coating with PVA curing

compound cast over Cementitious Wood Fiber

All General and System limitations apply.

Base Sheet: One ply of DynaBase adhered to the substrate with JM MBR RA Membrane

Adhesive n 1 in. wide ribbons spaced 12 in. o.c.

Ply Sheet: (Optional) One or more plies of DynaBase, DynaBase PR, DynaBase XT,

DynaMax S, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, or Dynalastic 250 S fully adhered to the base sheet with MBR Cold Application Adhesive at an

application rate of 1.5 - 2.0 gal/sq.,

Or,

One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaMax S, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, or Dynalastic 250 S fully adhered to the base sheet with approved mopping asphalt at an application rate of

20-40 lbs./sq.

Or.

One or more plies of DynaWeld 180 S, DynaWeld Base, DynaBase HW, DynaFast

180 HW, DynaWeld Cap 250 S or DynaFast 250 HW heat welded.

Membrane: One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR DynaGlas FR,

DynaLastic 180, DynaLastic 180 FR, DynaLastic 250 FR, DynaLastic 250 FR CR or DynaMax FR fully adhered to the base sheet with MBR Cold Application

Adhesive fully adhered at an application rate of 1.5 - 2.0 gal/sq.

Or,

One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR DynaGlas FR, DynaLastic 180, DynaLastic 180 FR, DynaLastic 250 FR, DynaLastic 250 FR CR or DynaMax FR fully adhered to the base sheet with approved mopping asphalt at

an application rate of 20-40 lbs./sq.

Or,

One or more plies of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap 180 FR, DynaWeld Cap 250, DynaWeld Cap 250 FR or DynaWeld Cap 250 FR

CR heat welded.

Maximum Design

Pressure: -117.5 psf. (See General Limitation #9)



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Deck Type 4: Lightweight Concrete

Deck Description: Celcore Lightweight Concrete

System Type F(2): Base sheet adhered in approved adhesive.

Deck: Min. 498 psi Celcore MF with Celcore HS Rheology Modifying Admixture; Min.

1/8" slurry coat; Min. 1" EPS board; Min. 2" top coating with PVA curing

compound cast over Structural Concrete

All General and System limitations apply.

Base Sheet: One ply of DynaBase adhered to the substrate with JM MBR RA Membrane

Adhesive in 1 in. wide ribbons spaced 6 in. o.c.

Ply Sheet: (Optional) One or more plies of DynaBase, DynaBase PR, DynaBase XT,

DynaMax S, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, or Dynalastic 250 S fully adhered to the base sheet with MBR Cold Application Adhesive at an

application rate of 1.5 - 2.0 gal/sq.,

Or,

One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaMax S, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, or Dynalastic 250 S fully adhered to the base sheet with approved mopping asphalt at an application rate of

20-40 lbs./sq.

Or,

One or more plies of DynaWeld 180 S, DynaWeld Base, DynaBase HW, DynaFast 180 HW, DynaWeld Cap 250 S or DynaFast 250 HW heat welded.

Membrane: One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR DynaGlas FR,

DynaLastic 180, DynaLastic 180 FR, DynaLastic 250 FR, DynaLastic 250 FR CR or DynaMax FR fully adhered to the base sheet with MBR Cold Application

Adhesive fully adhered at an application rate of 1.5 - 2.0 gal/sq.

Or

One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR DynaGlas FR, DynaLastic 180, DynaLastic 180 FR, DynaLastic 250 FR, DynaLastic 250 FR CR or DynaMax FR fully adhered to the base sheet with approved mopping asphalt at

an application rate of 20-40 lbs./sq.

Or,

One or more plies of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap 180 FR, DynaWeld Cap 250, DynaWeld Cap 250 FR or DynaWeld Cap 250 FR

CR heat welded.

Maximum Design

Pressure: -290 psf. (See General Limitation #9)



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Deck Type 4: Lightweight Concrete

Deck Description: Celcore Lightweight Concrete

System Type F(3): Base sheet adhered in approved adhesive.

Deck: Min. 498 psi Celcore MF with Celcore HS Rheology Modifying Admixture; Min.

1/8" slurry coat; Min. 1" EPS board; Min. 2" top coating with PVA curing

compound cast over Structural Concrete

All General and System limitations apply.

Vapor Barrier: One ply of DynaBase HW heat welded to primed concrete.

Base Sheet: One ply of DynaBase adhered to the substrate with JM MBR RA Membrane

Adhesive in 1 in. wide ribbons spaced 6 in. o.c.

Ply Sheet: (Optional) One or more plies of DynaBase, DynaBase PR, DynaBase XT,

DynaMax S, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, or Dynalastic 250 S fully adhered to the base sheet with MBR Cold Application Adhesive at an

application rate of 1.5 - 2.0 gal/sq.,

Or,

One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaMax S, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, or Dynalastic 250 S fully adhered to the base sheet with approved mopping asphalt at an application rate of

20-40 lbs./sq.

Or,

One or more plies of DynaWeld 180 S, DynaWeld Base, DynaBase HW, DynaFast 180 HW, DynaWeld Cap 250 S or DynaFast 250 HW heat welded.

Membrane: One or more plies of DynaGlas 30 FR, DynaGlas FR CR DynaGlas FR,

DynaLastic 180, DynaLastic 180 FR, DynaLastic 250 FR, DynaLastic 250 FR CR

or DynaMax FR fully adhered to the base sheet with MBR Cold Application

Adhesive fully adhered at an application rate of 1.5 - 2.0 gal/sq.

Or

One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR DynaGlas FR, DynaLastic 180, DynaLastic 180 FR, DynaLastic 250 FR, DynaLastic 250 FR CR or DynaMax FR fully adhered to the base sheet with approved mopping asphalt at

an application rate of 20-40 lbs./sq.

Or

One or more plies of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap 180 FR, DynaWeld Cap 250, DynaWeld Cap 250 FR or DynaWeld Cap 250 FR

CR heat welded.

Maximum Design

Pressure: -257.5 psf. (See General Limitation #9)



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LIGHTWEIGHT INSULATING CONCRETE 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.
- 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.

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 Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform 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

MIAMI-DADE COUNTY
APPROVED

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