

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

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www.miamidade.gov/economy

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

NOTICE OF ACCEPTANCE (NOA)
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 Concrete Decks.

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

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

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

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

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

This NOA renews and revises NOA No. 16-0413.22 and consists of pages 1 through 63. The submitted documentation was reviewed by Jorge L. Acebo.



Small

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ROOFING SYSTEM APPROVAL

Category: Roofing

Sub-Category: Modified Bitumen

Materials:SBSDeck Type:ConcreteMaximum Design Pressure:-536.5 psf.

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

Dec de 4	D'	Test	Dec decat Decade the
Product JM BaseGrip SD/SA	<u>Dimensions</u> 36" x 72'	Specification ASTM D4601	Product Description Glass reinforced, self-adhering SBS
JWI BaseGrip SD/SA	30 X /2	ASTM D4001	modified bitumen base sheet
D	20.2/02 40222	ASTM D 6163	
DynaBase	39-3/8" x 49'2"	ASTM D 0103	A glass reinforced SBS modified bitumen base sheet.
DynaBase HW	39-3/8" x 49'2"	ASTM D 6163	A glass reinforced SBS modified bitumen
Dyllabase II W	39-3/0 X 49 Z	ASTM D 0103	base sheet for heat welded applications.
DynaBase PR	39-3/8" x 49'2"	ASTM D6164	A polyester reinforced SBS modified
Dynabase FK	33-3/0 X 43 Z	A31W1 D0104	bitumen base sheet.
DynaBase XT	39-3/8" x 49'-2"	ASTM D 6163	A glass reinforced SBS modified bitumen
DyllaDasc A1	39-3/0 A 49 -2	A31W D 0103	base or inner ply sheet.
DynaClad	39-3/8" x 33'10"	ASTM D6298	A glass reinforced base sheet SBS modified
Dynaciaa	37 3/0 X 33 10	7151W1 D0270	bitumen membrane surfaced with foil.
DynaFast 180 HW	39-3/8" x 49'2"	ASTM D6164	A polyester reinforced SBS modified
Dynar ast 100 11	39 370 R 19 2	1151111 20101	bitumen base or inner ply sheet for use in
			heat weld applications.
DynaFast 180 S	39-3/8" x 49'2"	ASTM D6164	A polyester reinforced SBS modified
•			bitumen base or inner ply sheet.
DynaFast 250 HW	39-3/8" x 32'10"	ASTM D6164	A polyester reinforced SBS modified
·			bitumen base or inner ply sheet for use in
			heat weld applications.
DynaGlas	39-3/8" x 32'-10"	ASTM D6163	A glass reinforced SBS modified bitumen
·			membrane surfaced with granules.
DynaGlas 30 FR	39-3/8" x 32'-10"	ASTM D6163	A fire resistant, glass reinforced SBS
			modified bitumen membrane surfaced with
			granules.
DynaGlas FR	39-3/8" x 32'-10"	ASTM D6163	A fire resistant, glass reinforced SBS
			modified bitumen membrane surfaced with
			granules.
DynaGlas FR CR	39-3/8" x 32'-10";	ASTM D6163	A fire resistant, glass reinforced SBS
			modified bitumen membrane surfaced with
			granules and a reflective white coating for
D 01 FD 0D 0	20.2/04. 2211.04	. cm . c . c . c . c	use in heat weld applications.
DynaGlas FR CR G	39-3/8" x 32'10"	ASTM D 6163	A fire resistant, glass reinforced SBS
			modified bitumen membrane surfaced with
DemaClas ED VT	20.2/01/ 22: 10::	ACTM DC1C2	granules and cool roof coating.
DynaGlas FR XT	39-3/8" x 32'-10"	ASTM D6163	A fire resistant, glass reinforced SBS modified bitumen membrane surfaced with
			granules.



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Test				
Product	Dimensions	Specification	Product Description	
DynaGrip Base SD/SA	39-3/8" x 65'-7"	ASTM D4601	Glass reinforced, self-adhering SBS modified bitumen base sheet	
DynaKap FR T1	39-3/8" x 32'-10"	ASTM D6162	A fire resistant, composite reinforced SBS modified bitumen membrane surfaced with granules.	
DynaKap FR T1 CR G	39-3/8" x 32'10"	ASTM D6162	A fire resistant, composite reinforced SBS modified bitumen membrane surfaced with granules and cool roof coating.	
DynaKap FR T1 HW CR G	39-3/8" x 32'10"	ASTM D6162	A fire resistant, composite reinforced SBS modified bitumen membrane surfaced with granules with cool roof coating for use in heat weld applications.	
DynaLastic 180	39-3/8" x 32'-10"	ASTM D6164	A polyester reinforced SBS modified bitumen membrane surfaced with granules.	
DynaLastic 180 FR	39-3/8" x 32'-10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules.	
DynaLastic 180 FR CR	39-3/8" x 32'-10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules.	
DynaLastic 180 FR CR G	39-3/8" x 32'10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules and cool roof coating.	
DynaLastic 180 S	39-3/8" x 32'10"	ASTM D6164	A polyester reinforced SBS modified bitumen base or inner ply sheet.	
DynaLastic 250 FR	39-3/8" x 32'-10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules.	
DynaLastic 250 FR CR	39-3/8" x 32'-10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules and a reflective white coating.	
DynaLastic 250 FR CR G	39-3/8" x 32'10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules, cool roof coating and a reflective white coating.	
DynaLastic 250 S	39-3/8" x 32'-10"	ASTM D 6164	A polyester reinforced SBS modified bitumen base or inner ply sheet.	
DynaMax FR	39-3/8" x 32'-10"	ASTM D6162	A fire resistant, composite reinforced SBS modified bitumen membrane surfaced with granules.	
DynaMax FR Plus	39-3/8" x 32'-10"	ASTM D6162	A fire resistant, composite reinforced SBS modified bitumen membrane surfaced with granules.	
DynaMax FR HW	39-3/8" x 32'-10"	ASTM D6162	A fire resistant, composite reinforced SBS modified bitumen membrane surfaced with granules.	
DynaMax FR HW CR	39-3/8" x 32'-10"	ASTM D6162	A fire resistant, composite reinforced SBS modified bitumen membrane surfaced with granules.	



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		<u>Test</u>	
Product	Dimensions	Specification	Product Description
DynaMax FR CR	39-3/8" x 32'-10"	ASTM D6162	A fire resistant, composite reinforced SBS modified bitumen membrane surfaced with granules.
DynaMax S	39-3/8" x 32'-10"	ASTM D6162	A composite reinforced SBS modified bitumen base or inner ply sheet.
DynaPly T1	39-3/8" x 32'-10"	ASTM D6162	A composite reinforced SBS modified bitumen base or inner ply sheet.
DynaWeld 180 S	39-3/8" x 32'-10"	ASTM D6162	A polyester reinforced SBS modified bitumen base or inner ply sheet for use in heat weld applications.
DynaWeld 250 S	39-3/8" x 32'-10"	ASTM D6164	A polyester reinforced SBS modified bitumen base or inner ply sheet for use in heat weld applications.
DynaWeld Base	39'-3/8" x 32'-10"	ASTM D6163	A glass reinforced SBS modified bitumen base sheet for heat welded applications.
DynaWeld Cap 180 FR	39-3/8" x 32'-10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules for use in heat weld applications.
DynaWeld Cap 180 FR CR	39-3/8" x 32'-10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules for use in heat weld applications.
DynaWeld Cap 250	39-3/8" x 32'-10"	ASTM D6164	A polyester reinforced SBS modified bitumen membrane surfaced with granules for use in heat weld applications.
DynaWeld Cap 250 FR	39-3/8" x 32'-10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules for use in heat weld applications.
DynaWeld Cap 250 FR CR	39-3/8" x 32'-10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules and a reflective white coating for use in heat weld applications.
DynaWeld Cap 250 FR CR G	39-3/8" x 32'10"	ASTM D6164	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules, cool roof coating and a reflective white coating for use in heat weld applications.
DynaWeld Cap FR	39'-3/8" x 32'-10"	ASTM D6163	A fire resistant, glass reinforced SBS modified bitumen membrane surfaced with granules for use in heat weld applications.
DynaWeld Cap FR XT	39'-3/8" x 32'-10"	ASTM D6163	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules for use in heat weld applications.
DynaWeld Cap FR CR	39'-3/8" x 32'-10"	ASTM D6163	A fire resistant, polyester reinforced SBS modified bitumen membrane surfaced with granules and a reflective white coating for use in heat weld applications.



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Test				
Product	Dimensions	Specification	Product Description	
DynaWeld Cap FR	39-3/8" x 32'10"	ASTM D6163	A fire resistant, polyester reinforced SBS	
CR G			modified bitumen membrane surfaced with	
			granules, cool roof coating and a white	
			reflective coating for use in heat weld	
			applications.	
GlasBase Plus	36" x 108'	ASTM D4601	Type II asphalt impregnated and coated	
			glass fiber base sheet for use in conventional	
C1 II	262 261	A CTL 4 D 2000	and modified bitumen built-up roofing.	
GlasKap	36" x 36'	ASTM D3909	A mineral surfaced, asphalt coated,	
ClasVan Dlus	36" x 36'	ASTM D3909	fiberglass cap sheet. A mineral surfaced, asphalt coated,	
GlasKap Plus	30 X 30	ASTM D3909	fiberglass cap sheet.	
GlasPly IV	36" x 180'	ASTM D2178	Type IV asphalt impregnated glass felt for	
Glast ly I v	30 X 100	ASTWI D2176	use in conventional and modified bitumen	
			built-up roofing.	
GlasPly Premier	36" x 180'	ASTM D2178	Type VI asphalt impregnated glass felt for	
Glast ly Tremier	30 A 100	1101111 221 70	use in conventional and modified bitumen	
			built-up roofing.	
PermaPly 28	36" x 106'	ASTM D4601	Type II asphalt impregnated and coated	
•			glass fiber base sheet for use in conventional	
			and modified bitumen built-up roofing.	
Ventsulation Felt	36" x 36'	ASTM D4897	Heavy duty fiber glass base sheet	
			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	
E C (N) C		A CEN A CEO	asphaltic coating.	
FesCant Plus Cant	various	ASTM C728	Factory pre-fabricated cant strips and taper	
Strips, and Taper Edge			edge, manufactured from expanded perlite insulation.	
MBR Bonding	N/A	Proprietary	A two-component urethane cold application	
Adhesive	IV/A	Troprictary	adhesive.	
MBR Cold	5, 55, and 350 gal.	ASTM D3019	One-part, elastomeric cold application	
Application	o, oo, oo o 8	Type III	adhesive	
Adhesive		31		
Urethane Insulation	N/A	Proprietary	Urethane insulation adhesive.	
Adhesive				
JM Roofing System	Various	Proprietary	A two-component, cold-applied adhesive	
Urethane Adhesive				
JM Two Part	Various	Proprietary	A two-component, cold-applied adhesive	
Urethane Insulation				
Adhesive	37/4	D : .		
One-Step Foamable	N/A	Proprietary	A two-part urethane insulation adhesive	
Adhesive Bestile Industrial	vomi ova	A CTM D4506	A traveral anada authorit hituman flachina	
Roof Cement	various	ASTM D4586 Type I	A trowel grade, cutback bitumen flashing grade cement mixture including inorganic	
Roui Cement		1 ype 1	fibers and mineral stabilizers.	
USII RetroDrain	various	N/A	One piece, aluminum fabricated drain for	
			retrofit applications.	
			11	



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		<u>Test</u>	
Product	Dimensions	Specification	Product Description
Hercules RetroDrain	various	N/A	Cast aluminum, heavy-duty drain for retrofit applications.
DynaTred & DynaTred Plus Roof Walkway	various	N/A	Preformed, skid-resistant boards.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI	Polyisocyanurate Insulation.	Johns Manville
ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI	Isocyanurate Insulation with glass reinforced facers	Johns Manville
ENRGY 3 FR, ENRGY 3 FR 25 PSI	Isocyanurate Insulation with inorganic coated glass reinforced facers; bottom face is premium coated for combustible decks.	Johns Manville
Fesco Foam, DuraFoam	Polyisocyanurate Insulation with perlite facer	Johns Manville
Retro-Fit Board, DuraBoard, RetroPlus Roof Board	High-density perlite roof insulation.	Johns Manville
Fesco Board	Rigid perlite roof insulation board.	Johns Manville
JM SECUROCK Gypsum-Fiber Roof Board	Rigid, gypsum-based board stock	Johns Manville
Invinsa Roof Board	High density polyisocyanurate board	Johns Manville



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APPROVED FASTENERS:

Product

Fastener

TABLE 3

Product

Fastener	Product	Product		Manufacturer
Number	Name	Description	Dimensions	(With Current NOA)
1.	All Purpose Fastener	Insulation fastener for concrete decks.	#14 x 16" max. length; #3 Phillips head	Johns Manville
2.	Structural Concrete Deck Fastener	Insulation fastener for concrete decks.	Various	Johns Manville
3.	UltraFast 3" Round Metal Plate or UltraFast Square Metal Plate	Galvalume AZ55 steel plate	3" round 3" square	Johns Manville
4.	High Load Plates	Galvalume steel plate	2-3/8"	Johns Manville
	NCE SUBMITTED:			
Tes	st Agency/Identifier	<u>Name</u>	<u>Report</u>	<u>Date</u>
FM App	rovals	3001482	FM 4470	08/11/98
11		3001629	FM 4470	09/10/98
		0Z8A9.AM	FM 4470	09/10/98
		3D4A4.AM	FM 4470	09/28/98
		3007148	FM 4450	04/19/00
		3006346	FM 4450	09/15/00
		3001457	FM 4470	03/04/02
		3009499	FM 4470	04/04/01
		3011248	FM 4470	11/01/02
		3014090	FM 4470	09/05/02
		3012974	FM 4450	06/03/02
		3037222	FM 4470	10/02/09
		3026130	FM 4470	04/26/09
		3037540	FM 4470	10/20/10
		3012064	FM 4470	06/25/02
		3053754	FM 4470	03/04/15
		3040986	FM 4470	09/23/11
		3054150	FM 4470	05/13/15
		3036559	FM 4470	10/02/09
		3046174	FM 4470	04/03/13
		3004299	FM 4470	10/02/01
		3043824	FM 4470	06/04/12
		3023458	FM 4470	07/18/06
		3052113	FM 4470	08/29/14
		RR205623	FM 4470	07/08/16
UL LLC		R10167	UL 790	05/12/21
	Research & Design, LLC	02843.02.05-10-R1	TAS 114	02/07/07
Trinity		J7670.06.08	ASTM D3909	
<i>J</i> 1		JM-11190.03.16	TAS 114 (J)	03/11/16
		JM-SC11320.03.16	TAS 114 (D)	03/10/16
		J45020.07.13	TAS 114	07/12/13



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Manufacturer

75 / A / / T 1 / ' C'	NI	D 4	D 4
Test Agency/Identifier	<u>Name</u>	<u>Report</u>	<u>Date</u>
Independent Roof Testing &	IRT 99006	TAS 114	01/20/99
Consultants of South Florida	IRT 99008	TAS 114	01/20/99
	IRT 99009	TAS 114	02/10/99
Atlantic & Caribbean Roof	ACRC 06-003	TAS 114	03/27/06
Consulting, LLC	ACRC 06-009	TAS 114	06/28/06
PRI Construction Materials	JMC-065-02-01	ASTM D6163	05/29/12
Technologies, LLC	JMC-066-02-01	ASTM D6163	06/04/12
	JMC-069-02-01	ASTM D3909	06/04/12
	JMC-070-02-01	ASTM D2178	04/17/12
	JMC-071-02-01	ASTM D2178	04/17/12
	JMC-072-02-02.1	ASTM D4601	05/25/16
	JMC-074-02-01	ASTM D4897	04/17/12
	JMC-075-02-04.3	ASTM D6164	03/29/16
	JMC-078-02-01	ASTM D6298	07/17/12
	JMC-081-02-01.02	TAS 117 B & C	06/11/12
	JMC-091-02-01.1	ASTM D4601	05/26/16
	JMC-093-02-01	ASTM D4601	08/02/12
	JMC-105-02-02 Rev 1	ASTM D6162	05/22/13
	JMC-106-02-01	ASTM D6164	04/15/13
	JMC-107-02-01.7	ASTM D903/D1876/D5147	03/31/16
	D. (C. 100. 02. 01	TAS 114(C)/TAS 117 A & B	04/16/12
	JMC-108-02-01	TAS 114 (J)	04/16/13
	JMC-113-02-01	ASTM D6164	04/19/13
	JMC-114-02-01	TAS 114 (J)	08/20/13
	JMC-147-02-01	ASTM D4601	05/28/13
	JMC-168-02-01	TAS 114 (J) ASTM D6163	08/20/13 01/10/14
	JMC-171-02-01 JMC-171-02-02	ASTM D6163 ASTM D6163	01/10/14
	JMC-171-02-02 JMC-171-02-03	ASTM D6163 ASTM D6164	01/10/14
	JMC-171-02-03 JMC-171-02-04.1	ASTM D6164 ASTM D6163	05/26/16
	JMC-171-02-04.1 JMC-171-02-07.1	ASTM D6163 ASTM D6164	05/26/16
	JMC-171-02-07.1	ASTM D6164 ASTM D6162	01/10/14
	JMC-171-02-10 JMC-171-02-11	ASTM D6162 ASTM D6164	03/14/14
	JMC-227-02-01.3	ASTM D6164 ASTM D6162	06/29/16
	JMC-234-02-01.2	ASTM D6162 ASTM D6162	06/29/16
	JMC-234-02-02	ASTM D6162 ASTM D6163	04/29/15
	JMC-234-02-03.1	ASTM D6163	05/26/16
	JMC-234-02-04	ASTM D6163	03/23/16
	JMC-234-02-05	ASTM D6164	04/29/15
	JMC-234-02-06.1	ASTM D6164	05/26/16
	JMC-238-02-01.1	ASTM D6164 ASTM D6163	06/29/16
	JMC-238-02-03	ASTM D0103 ASTM D6164	12/01/15
	JMC-238-02-04	ASTM D6164	03/31/16
	JMC-243-02-01	ASTM D0102 ASTM D5147/D4798	02/29/16
	JMC-268-02-01	TAS 114 (J)	03/30/16
	JMC-272-02-01	TAS 114 (J)	04/07/16
	ADCO-001-02-01	Physical Properties	06/16/13
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APPROVED ASSEMBLIES

Membrane Type: SBS

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(1): One or more layers of insulation fully adhered with approved asphalt or adhesive.

All General and System limitations apply.

One or more layers of the following insulations:

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener Density/ft²

Fesco Foam

Minimum 1.5" thick N/A N/A

Note: All insulation shall be adhered to the anchor sheet or primed deck 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. Composite insulation panels may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet: (Optional) One ply of PermaPly 28, DynaBase, DynaBase PR, DynaBase XT,

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S or GlasBase Plus adhered to the insulated substrate in a full mopping of approved

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: One or more plies of GlasBase Plus, PermaPly 28, GlasPly Premier, GlasPly IV,

DynaLastic 180 S, DynaFast 180 S, DynaLastic 250 S, DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered to the base sheet with approved mopping of asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Or

One ply DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW,

DynaWeld 250 S or DynaFast 250 HW heat welded.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Or

One ply DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR,

DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or DynaMax FR HW CR heat welded. (See application instructions for approved

method of installation).

Or

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap or GlasKap Plus adhered in a full mopping of approved asphalt applied within the

EVT range and at a rate of 20-40 lbs./sq.



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Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.
 (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0

gal./sq./coat.

Maximum Design

Pressure: -167.5 psf. (See General Limitation #9).



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(2): Optional anchor sheet bonded in hot asphalt or heat welded; One or more layers of

insulation fully adhered with approved asphalt or adhesive.

All General and System limitations apply.

Anchor Sheet: (Optional) One or more plies of GlasBase Plus, DynaBase, DynaBase PR,

DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S, GlasPly Premier, PermaPly 28 or GlasPly IV adhered to the properly primed concrete deck with a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or with MBR Bonding Adhesive at an application rate of 1.5 gal./sq. or DynaWeld Base, heat welded.

One or more layers of the following insulations:

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 2 ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AG	25 PSI, R-Panel, R-Panel 25 P GF, ValuTherm AGF 25 PSI,	·
ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CC Minimum 1.5" thick	GF, Valu I nerm CGF 25 PSI N/A	N/A
Fesco Foam, DuraFoam Minimum 1.5" thick	N/A	N/A
Fesco Board, DuraBoard Minimum ¾" thick	N/A	N/A
Retro-Fit Board Minimum ½" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Tapered Fesco Board, DuraBoard Minimum 3/4" thick	N/A	N/A
Retro-Fit Board Minimum ½" thick	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet or primed deck 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.

Base Sheet: (Optional) One ply of PermaPly 28, DynaBase, DynaBase PR, DynaBase XT,

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S or GlasBase Plus adhered to the insulated substrate in a full mopping of approved

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.



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One or more plies of GlasBase Plus, PermaPly 28, GlasPly Premier, GlasPly IV, DynaLastic 180 S, DynaFast 180 S, DynaLastic 250 S, DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered to the base sheet with approved mopping of asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S or DynaFast 250 HW heat welded.

Membrane:

One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR, DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply DynaWeld Cap FR, DynaWeld Cap FR CR G, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaMax FR HW, or DynaMax FR HW CR heat welded. (See application instructions for approved method of installation).

Or

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap or GlasKap Plus adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing:

(Optional) Install one of the following:

- 1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.
- 2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0 gal./sq./coat.

Maximum Design

Pressure:

-150 psf. (See General Limitation #9)



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(3): All layer of insulation adhered to deck. Membrane is subsequently fully adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI,

ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI
Minimum 1.5 thick
N/A

Fesco Board, DuraBoard

Minimum ¾" thick N/A N/A

Note: All layers of insulation shall be adhered with MBR Bonding Adhesive at an application rate of 1.5 gal./ 100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: GlasBase Plus, PermaPly 28, DynaBase, DynaBase PR, DynaBase XT, DynaLastic

180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S, GlasPly Premier or GlasPly IV applied to the insulation in MBR Bonding Adhesive at an

application rate of 1.5 gal./sq.

Ply Sheet: (Optional) One or more plies of GlasPly Premier or GlasPly IV fiber glass felts

adhered in MBR Bonding Adhesive at an application rate of 1.5 gal./sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in MBR Bonding

Adhesive at an application rate of 1.5 gal./sq.

Surfacing: (Optional) Install one of the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.

2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0

gal./sq./coat.

Maximum Design -187.5 psf. (for Fesco Board or DuraBoard) (See General Limitation #9).

Pressure: -375 psf. (for ENRGY 3) (See General Limitation #9).



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N/A

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(4): All layer of insulation adhered to a primed deck. Membrane is subsequently fully

adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener Density/ft² (Table 3) Fesco Foam, DuraFoam N/A Minimum 1.5" thick N/A **Insulation Fasteners Top Insulation Layer** Fastener (Table 3) Density/ft²

Retro-Fit Board, DuraBoard Minimum ½" thick

N/A N/A

Note: All layers of insulation shall be adhered with approved 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. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: GlasBase Plus, PermaPly 28 DynaBase, DynaBase PR, DynaBase XT, DynaLastic

> 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S, GlasPly Premier or GlasPly IV applied to the insulation in a full mopping of approved

asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

(Optional) One or more plies of GlasPly Premier, PermaPly 28 or GlasPly IV fiber Ply Sheet:

glass felts adhered in a full mopping of approved asphalt applied within the EVT

range and at a rate of 20-40 lbs./sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

> DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR heat welded. (See application instructions for approved

method of installation).

Surfacing: (Optional) Install one of the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.

2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0

gal./sq./coat.

Maximum Design

Pressure: -130 psf. (See General Limitation #9).



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(5): All layer of insulation adhered to a primed or unprimed deck. Membrane is

subsequently fully adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI

Minimum 1.5 thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) The Density/ft²

Fesco Board, DuraBoard

Minimum ½" thick N/A N/A

Note: All layers of insulation shall be adhered to primed deck with approved 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. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: GlasBase Plus, PermaPly 28, DynaBase, DynaBase PR, DynaBase XT, DynaLastic

180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S, GlasPly Premier or GlasPly IV applied to the insulation in MBR Bonding Adhesive at an

application rate of 1.5 gal./sq.

Ply Sheet: (Optional) One or more plies of GlasPly Premier or GlasPly IV fiber glass felts

adhered in MBR Bonding Adhesive at an application rate of 1.5 gal./sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in MBR Bonding

Adhesive at an application rate of 1.5 gal./sq.

Surfacing: (Optional) Install one of the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.

2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0

gal./sq./coat.

Maximum Design

Pressure: -82.5 psf. (See General Limitation #9).



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(6): Insulation adhered to primed deck in approved asphalt or to unprimed deck in

insulation adhesive. Membrane is subsequently fully adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI

Minimum 2" thick

N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

SECUROCK Gypsum-Fiber Roof Board

Minimum ¹/₄" thick N/A N/A

Note: All layers of insulation shall be adhered to primed deck with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft² or with MBR Bonding Adhesive at an application rate of 1.5 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional) One ply of PermaPly 28, DynaBase, DynaBase PR, DynaBase XT,

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S or GlasBase Plus adhered to the insulated substrate in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or with MBR

Bonding Adhesive at an application rate of 1.5 gal./sq.

Ply Sheet: One or more plies of GlasBase Plus, PermaPly 28, GlasPly Premier, GlasPly IV,

DynaLastic 180 S, DynaFast 180 S, DynaLastic 250 S. DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered to the base sheet with approved mopping of asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or with MBR Bonding Adhesive at an application rate of 1.5 gal./sq. or one ply DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld

250 S or DynaFast 250 HW heat welded.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or

with MBR Bonding Adhesive at an application rate of 1.5 gal./sq.

Or

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap or, GlasKap Plus or GlasKap CR adhered in a full mopping of approved asphalt

applied within the EVT range and at a rate of 20-40 lbs./sq.



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N/A

Surfacing: (Optional) Install one of the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq. 2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0

gal./sq./coat.

Maximum Design

-495 psf. with hot-asphalt (except AGF) (See General Limitation #9)

Pressure: -397.5 psf. for AGF boards with asphalt (See General Limitation #9)

-367.5 psf. with MBR Bonding Adhesive (See General Limitation #9)



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(7): Insulation adhered to primed deck in approved asphalt or to unprimed deck in

insulation adhesive. Membrane is subsequently fully adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI

Minimum 2" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

SECUROCK Gypsum-Fiber Roof Board

Minimum ¼" thick N/A N/A

Note: All layers of insulation shall be adhered to primed deck with approved 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.

Base Sheet: One or more plies of or one ply DynaWeld Base, DynaBase HW, DynaWeld 180

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

Ply Sheet: None

Membrane: One ply DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G,

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

DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR heat welded.

Maximum Design -536.5 psf. (except AGF Insulation Boards) (See General Limitation #9)

Pressure: -397.5 psf. for AGF Insulation Boards (See General Limitation #9)



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(8): All layer of insulation adhered to deck. Membrane is subsequently fully adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI

Minimum 1.5 thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Fensity/ft²

DuraBoard

Minimum ½" thick N/A N/A

Note: All layers of insulation shall be adhered with MBR Bonding Adhesive in ¾" to 1" wide beads at maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: PermaPly 28, applied to the insulation in MBR Bonding Adhesive at an application

rate of 1.5 gal./sq.

Ply Sheet: One ply of GlasBase Plus, PermaPly 28, GlasPly Premier, GlasPly IV, DynaLastic

180 S, DynaFast 180 S, DynaLastic 250 S, DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered in MBR Bonding Adhesive at an application rate of 1.5 gal./sq. or one ply DynaWeld Base, DynaBase HW,

DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S or DynaFast 250 HW heat

welded.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR CR, or DynaMax FR adhered in MBR Bonding Adhesive at an

application rate of 1.5 gal./sq.

Or

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap or, GlasKap Plus adhered in a full mopping of approved asphalt applied within the

EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.

2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0

gal./sq./coat.

Maximum Design

Pressure: -134 psf. (See General Limitation #9).



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(9): Anchor sheet heat welded; One or more layers of insulation adhered with

insulation adhesive.

Anchor Sheet: DynaWeld Base, heat welded.

All General and System limitations apply.

One or more layers of the following insulations:

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI Minimum 1.5" thick

Note: All layers of insulation shall be adhered with MBR Bonding Adhesive in ¾" to 1" wide beads at maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional) GlasBase Plus, PermaPly 28, DynaBase, DynaBase PR, DynaBase XT,

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S,

GlasPly Premier or GlasPly IV applied to the insulation in MBR Bonding

Adhesive at an application rate of 1.5 gal./sq.

Ply Sheet: One ply of GlasBase Plus, PermaPly 28, GlasPly Premier, GlasPly IV, DynaLastic

180 S, DynaFast 180 S, DynaLastic 250 S DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered in MBR Bonding Adhesive at an application rate of 1.5 gal./sq. or one ply DynaWeld Base, DynaBase HW,

DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S or DynaFast 250 HW heat

welded.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in MBR Bonding

Adhesive at an application rate of 1.5 gal./sq.

Or

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap or, GlasKap Plus adhered in a full mopping of approved asphalt applied within the

EVT range and at a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install one of the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.

2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0

gal./sq./coat.

Maximum Design

Pressure: -134 psf. (See General Limitation #9).



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N/A

Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(10): One or more layers of insulation adhered with approved adhesive.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener Density/ft² (Table 3)

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI Minimum 1.5" thick

N/A

Insulation Fasteners Fastener **Top Insulation Layer** Density/ft² (Table 3)

Fesco Board

Minimum 3/4" thick N/A N/A

Note: All layers of insulation shall be adhered with JM Urethane Insulation Adhesive in ½" wide beads at maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional) One ply GlasPly Premier, GlasPly IV or PermaPly 28 Base Sheet

adhered in a full mopping of approved asphalt applied within the EVT range and at

a rate of 20-40 lbs./sq.

Ply Sheet: One or more plies of GlasBase Plus, PermaPly 28, GlasPly Premier, GlasPly IV,

> DynaLastic 180 S, DynaFast 180 S, DynaLastic 250 S, DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered to the base sheet with approved mopping of asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW,

DynaWeld 250 S or DynaFast 250 HW heat welded.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR, CR, DynaGlas FR,

> DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR,

DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or DynaMax FR HW CR heat welded. (See application instructions for approved

method of installation).

Or

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap or, GlasKap Plus adhered in a full mopping of approved asphalt applied within the

EVT range and at a rate of 20-40 lbs./sq.



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Surfacing: (Optional) Install one of the following:

- 1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.
- 2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0 gal./sq./coat.

Maximum Design

Pressure: -112.5 psf. (See General Limitation #9).



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(11): All layer of insulation adhered to deck. Membrane is subsequently fully adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI

Minimum 1.5 thick N/A N/A

Fesco Board

Minimum ³/₄" thick N/A N/A

Note: All layers of insulation shall be adhered with JM Urethane Insulation Adhesive in ½" wide beads at maximum spacing of 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: GlasBase Plus, PermaPly 28, DynaBase, DynaBase PR, DynaBase XT, DynaLastic

180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S, GlasPly Premier or GlasPly IV applied to the insulation in MBR Bonding Adhesive at an

application rate of 1.5 gal./sq.

Ply Sheet: (Optional) One or more plies of GlasPly Premier or GlasPly IV fiber glass felts

adhered in MBR Bonding Adhesive at an application rate of 1.5 gal./sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in MBR Bonding

Adhesive at an application rate of 1.5 gal./sq.

Surfacing: (Optional) Install one of the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.

2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0

gal./sq./coat.

Maximum Design

Pressure: -112.5 psf. (See General Limitation #9).



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(12): Insulation adhered to deck in insulation adhesive. Membrane is subsequently

fully adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Insulation Fasteners Fastener

Insulation Layer (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI,

ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI

Minimum 2" thick N/A N/A

Note: Insulation shall be adhered with MBR Bonding Adhesive applied in full coverage at an application rate of 1.5 gal./sq. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: (Optional) One ply of DynaLastic 180 S, DynaLastic 250 S, adhered to the

insulated substrate with MBR Bonding Adhesive at an application rate of 1.5

gal./sq.

Ply Sheet: Two or more plies of GlasPly Premier, GlasPly IV, DynaLastic 180 S, DynaLastic

250 S adhered to the base sheet with MBR Bonding Adhesive at an application rate

of 1.5 gal./sq.

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

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

DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR heat welded.

Surfacing: (Optional) Install one of the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. and 400

lbs./sq., respectively.

Maximum Design

Pressure: -367.5 psf. (See General Limitation #9).



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(13): All layer of insulation adhered to deck. Membrane is subsequently fully adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ENRGY 3 AGF,

ENRGY 3 AGF 25 PSI, ValuTherm, ValuTherm 25 PSI, ValuTherm CGF,

ValuTherm CGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, R-Panel, R-Panel 25 PSI Minimum 1.5 thick N/A N/A

DuraBoard

Minimum ½" thick N/A N/A

Middle Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ENRGY 3 AGF,

ENRGY 3 AGF 25 PSI, ValuTherm, ValuTherm 25 PSI, ValuTherm CGF,

ValuTherm CGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, R-Panel, R-Panel 25 PSI Minimum 1.5 thick

N/A

N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Fensity/ft²

DuraBoard

Minimum ½" thick N/A N/A

Note: All layers of insulation shall be adhered with JM Urethane Adhesive applied in ½" ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of DynaPly T1, DynaLastic 250 S, or DynaMax S adhered to the insulated

substrate with MBR Cold Application Adhesive applied at an application rate of

2.0 gal./sq.

Ply Sheet: One or more plies of DynaPly T1, DynaLastic 180 S, DynaFast 180 S, GlasPly IV,

GlasPly Premier or DynaLastic 250 S fully adhered to the base sheet with MBR

Cold Application Adhesive applied at an application rate of 2.0 gal./sq.,

Or,

One or more plies of DynaPly T1, DynaLastic 180 S, DynaFast 180 S, GlasPly IV,

GlasPly Premier 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, DynaFast 180 HW,

DynaWeld 250 S or DynaFast 250 HW heat welded.



NOA No.: 21-0303.24 Expiration Date: 07/19/26 Approval Date: 07/22/21 Page 25 of 63 Membrane:

One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR, DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR, DynaLastic 180 FR CR, DynaLastic 250 FR CR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaLastic 250 FR CR, DynaLastic 250 FR CR, DynaMax FR, DynaMax FR CR, or DynaMax FR fully adhered to the base sheet with MBR Cold Application Adhesive fully adhered to the base sheet at an application rate of 2.0 gal./sq.

Or.

One or more plies of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR, DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR fully adhered to the base sheet with approved mopping asphalt at an application rate of 20-40 lbs./sq.

One or more plies of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or DynaMax FR HW CR heat welded.

Maximum Design

Pressure: -82.5 psf. (See General Limitation #9).



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Deck Type 3I: Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(14): All layer of insulation adhered to deck. Membrane is subsequently fully adhered.

All General and System Limitations apply.

One or more layers of the following insulations:

Bottom Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ENRGY 3 AGF,

ENRGY 3 AGF 25 PSI, ValuTherm, ValuTherm 25 PSI, ValuTherm CGF,

ValuTherm CGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, R-Panel, R-Panel 25 PSI Minimum 1.5 thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

DuraBoard

Minimum 1/2" thick N/A N/A

Note: All layers of insulation shall be adhered with MBR Bonding Adhesive applied in $\frac{1}{2}$ " – $\frac{3}{4}$ " ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of PermaPly 28 fully adhered to the insulation with MBR Bonding

Adhesive at an application rate of 1.5 gal./sq.

Ply Sheet: Optional one or more plies DynaLastic 180S, DynaPly T1, DynaFast 180 S,

DynaMax S or DynaLastic 250 S with MBR Bonding Adhesive at an application

rate of 1.5 gal./sq.

Membrane: One ply of DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR,

DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus adhered in MBR Bonding Adhesive or MBR Cold Application Adhesive at an application rate of 1.5 gal./sq. or approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Or

One ply DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR,

DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR heat welded.

Maximum Design

Pressure: -134 psf. (See General Limitation #9).



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(15): Insulation adhered to deck in insulation adhesive. Membrane is subsequently

fully adhered.

All General and System limitations apply.

One or more layers of the following insulations:

Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI Minimum 1.5" thick N/A

Note: All layers of insulation shall be adhered to deck with JM Roofing System Urethane Adhesive, JM Two Part Urethane Insulation Adhesive, or JM One-Step Foamable Adhesive applied in maximum of 3/4 – 1" wide beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S,

DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with

MBR Cold Application Adhesive at a rate of 1.5 gal/sq.

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

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or

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

Or

One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or asphalt applied in the EVT

range at a rate of 20-40 lbs./sq.

Or

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaWeld Cap 250 FR CR G, DynaWeld Cap 250 FR CR G, DynaMax FR HW, or

DynaMax FR HW CR fully bonded by torch adhering.

Maximum Design

Pressure:

Design -245 psf. w/ JM Roofing System Urethane Adhesive (See General Limitation #9) -225 psf. w/ JM Two Part Urethane Insulation Adhesive (See General Limitation #9)

-225 psf. w/JM One-Step Foamable Adhesive (See General Limitation #9)

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N/A

Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(16): Insulation adhered to deck in insulation adhesive. Membrane is subsequently

fully adhered.

All General and System limitations apply.

Vapor Barrier: One ply of DynaBase HW torch adhered over ASTM D 41 primed deck

One or more layers of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Fastener

ENRGY 3 CGF, ENRGY 3 GCF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI

Minimum 1.5" thick N/A N/A

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

JM SECUROCK Gypsum-Fiber Roof Board

Minimum 0.25" thick N/A N/A

Note: All layers of insulation shall be adhered with JM Roofing System Urethane Adhesive or JM Two Part Urethane Insulation Adhesive (not to DynaBase HW) applied in maximum of 3/4 – 1" wide beads spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S,

DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with

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

Or

One or more plies of DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering

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

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or

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

Or

One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering



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One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR, DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or asphalt applied in the EVT

range at a rate of 20-40 lbs./sq.

Or

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaMax FR HW, or

DynaMax FR HW CR fully bonded by torch adhering.

Maximum Design Pressure:

-245 psf. w/ JM Roofing System Urethane Adhesive (See General Limitation #9) -225 psf. w/ JM Two Part Urethane Insulation Adhesive (See General Limitation #9)

-225 psf. if using a torch adhered base sheet (See General Limitation #9)



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(17): Insulation adhered to deck in insulation adhesive. Membrane is subsequently

fully adhered.

All General and System limitations apply.

Vapor Barrier: One ply of DynaBase HW torch adhered over ASTM D 41 primed deck.

One or more layers of the following insulations:

Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

JM SECUROCK Gypsum-Fiber Roof Board Minimum 0.25" thick

N/A N/A

Note: All layers of insulation shall be adhered with JM Roofing System Urethane Adhesive or JM Two Part Urethane Insulation Adhesive applied in 3/4" to 1" wide ribbons spaced maximum 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S,

DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with

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

Or

One or more plies of DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering

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

> DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or

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

Or

One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

> DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or asphalt applied in the EVT

range at a rate of 20-40 lbs./sq.

Or

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR fully bonded by torch adhering.

Maximum Design

Pressure: -225 psf. (See General Limitation #9)



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(1): Base layer of insulation mechanically fastened, top layer fully adhered with

approved asphalt.

All General and System limitations apply.

Base Insulation Layer Insulation Fasteners Fastener

(Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.5" thick 1 with 3 or 2 with 3 1:1.45 ft²

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

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Invinsa Roof Board

Minimum 0.25" thick N/A N/A

Note: Top layer of insulation shall be adhered with JM Roofing System Urethane Adhesive or JM Two Part Urethane Insulation Adhesive. Apply 3/4-1" wide continuous ribbons 12-inch o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: DynaGrip Base SD/SA fully bonded by self-adhering.

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

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with asphalt applied in the EVT range at a rate of 20-40 lbs./sq.

Or

One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with asphalt

applied in the EVT range at a rate of 20-40 lbs./sq.

Or

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR fully bonded by torch adhering.

Maximum Design

Pressure: -52.5 psf. (See general limitation #7).



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type B(2): Base layer of insulation mechanically fastened, top layer fully adhered with

approved asphalt.

All General and System limitations apply.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI,

ENRGY 3 FR. ENRGY 3 FR 25 PSI

Minimum 2" thick 1 with 3 or 2 with 3 1:1.45 ft²

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

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

Retro-Fit Board

Minimum ½" thick N/A N/A

Note: Top layer of insulation shall be adhered with approved 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. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

Base Sheet: One ply of GlasPly IV, GlasPly Premier, PermaPly 28, or GlasBase Plus adhered

to the insulated substrate in a full mopping of approved asphalt applied within the

EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional unless a GlasKap membrane listed in the membrane options is used.)

One or more plies of GlasPly Premier, GlasPly IV, DynaLastic 180 S, DynaFast 180 S, DynaLastic 250 S, DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered to the base sheet with approved mopping of asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S or

DynaFast 250 HW heat welded.



NOA No.: 21-0303.24 Expiration Date: 07/19/26 Approval Date: 07/22/21 Page 33 of 63 Membrane:

One or more plies of DynaGlas FR CR, DynaGlas FR CR G, DynaKap FR T1, DynaKap FR T1 CR G, DynaMax FR, DynaMax FR CR, DynaMax FR Plus, DynaGlas, DynaGlas FR, DynaGlas 30 FR, DynaGlas FR XT, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180, FR CR G, DynaLastic 180 S, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G or DynaPly T1 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply DynaWeld Cap FR, DynaWeld Cap FR XT, DynaWeld Cap FR CR, DynaWeld Cap 250 FR CR G, DynaWeld Cap 180 FR, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or DynaMax FR HW CR heat welded.

Or

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap or, GlasKap Plus adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing:

(Optional) Install one of the following:

- 1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.
- 2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0 gal./sq./coat.

Maximum Design

Pressure: -75 psf. (See general limitation #7).



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Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank

System Type B(3): Base layer of insulation mechanically fastened, top layer fully adhered with

approved asphalt.

All General and System limitations apply.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.5" thick 1 with 3 or 2 with 3 1:1 ft²

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

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

RetroPlus Roof Board N/A N/A

Note: Top layer of insulation shall be adhered with hot asphalt applied in EVT range at a rate of 20-40 lbs/sq., MBR Bonding Adhesive applied at 2.0 gal/sq., or JM Two Part Urethane Insulation Adhesive or JM One-Step Foamable Adhesive applied in 3/4" ribbons spaced maximum 12" o.c. Apply continuous ribbons 12-inch o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic

250 S, or DynaMax S fully bonded with asphalt applied in the EVT range at a rate of 20-40 lbs./sq., MBR Bonding Adhesive applied at 2.0 gal/sq., or MBR Cold

Application Adhesive applied at 1.5-2 gal/sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR CR G,

DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with asphalt applied in the EVT range at a rate of 20-40 lbs./sq., MBR Bonding Adhesive applied at 2.0

gal/sq., or MBR Cold Application Adhesive applied at 1.5-2 gal/sq.

Maximum Design

Pressure: -90 psf (See general limitation #7).



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Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi structural concrete or concrete plank

System Type B(4): Base layer of insulation mechanically fastened, top layer fully adhered with

approved asphalt.

All General and System limitations apply.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.5" thick 1 with 3 or 2 with 3 1:1.33 ft^2

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

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

RetroPlus Roof Board N/A N/A N/A

Note: Top layer of insulation shall be adhered with hot asphalt applied in EVT range at a rate of 20-40 lbs/sq., MBR Bonding Adhesive applied at 2.0 gal/sq., or JM Two Part Urethane Insulation Adhesive or JM One-Step Foamable Adhesive applied in 3/4" ribbons spaced maximum 12" o.c. Apply continuous ribbons 12-inch o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic

250 S, or DynaMax S fully bonded with asphalt applied in the EVT range at a rate of 20-40 lbs./sq., MBR Bonding Adhesive applied at 2.0 gal/sq., or MBR Cold

Application Adhesive applied at 1.5-2 gal/sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR CR G,

DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with asphalt applied in the EVT range at a rate of 20-40 lbs./sq., MBR Bonding Adhesive applied at 2.0

gal/sq., or MBR Cold Application Adhesive applied at 1.5-2 gal/sq.

Maximum Design

Pressure: -67.5 psf (See general limitation #7)



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Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi structural concrete or concret plank

System Type B(5): Base layer of insulation mechanically fastened, top layer fully adhered with

approved asphalt.

All General and System limitations apply.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.5" thick 1 with 3 or 2 with 3 1:1.78 ft²

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

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

RetroPlus Roof Board N/A N/A

Note: Top layer of insulation shall be adhered with hot asphalt applied in EVT range at a rate of 20-40 lbs/sq., MBR Bonding Adhesive applied at 2.0 gal/sq., or JM Two Part Urethane Insulation Adhesive or JM One-Step Foamable Adhesive applied in 3/4" ribbons spaced maximum 12" o.c. Apply continuous ribbons 12-inch o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic

250 S, or DynaMax S fully bonded with asphalt applied in the EVT range at a rate of 20-40 lbs./sq., MBR Bonding Adhesive applied at 2.0 gal/sq., or MBR Cold

Application Adhesive applied at 1.5-2 gal/sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR CR G,

DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with asphalt applied in the EVT range at a rate of 20-40 lbs./sq., MBR Bonding Adhesive applied at 2.0

gal/sq., or MBR Cold Application Adhesive applied at 1.5-2 gal/sq.

Maximum Design

Pressure: -60 psf (See general limitation #7)



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Deck Type 3I: Concrete, Insulated

Deck Description: Minimum 2500 psi structural concret or concrete plank

System Type B(6): Base layer of insulation mechanically fastened, top layer fully adhered with

approved asphalt.

All General and System limitations apply.

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 2" thick 1 with 3 or 2 with 3 1:1.45 ft^2

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

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

RetroPlus Roof Board N/A N/A N/A

Note: Top layer of insulation shall be adhered with hot asphalt applied in EVT range at a rate of 20-40 lbs/sq., MBR Bonding Adhesive applied at 2.0 gal/sq., or JM Two Part Urethane Insulation Adhesive or JM One-Step Foamable Adhesive applied in 3/4" ribbons spaced maximum 12" o.c. Apply continuous ribbons 12-inch o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S,

DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with

asphalt applied in the EVT range at a rate of 20-40 lbs./sq., MBR Bonding

Adhesive applied at 2.0 gal/sq., or MBR Cold Application Adhesive applied at 1.5-

2 gal/sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR CR G,

DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with asphalt applied in the EVT range at a rate of 20-40 lbs./sq., MBR Bonding Adhesive applied at 2.0

gal/sq., or MBR Cold Application Adhesive applied at 1.5-2 gal/sq.

Maximum Design

Pressure: -90 psf (See general limitation #7)



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(1): All layers of insulation simultaneously mechanically fastened.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer (Optional) Insulation Fasteners Fastener

(Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR. ENRGY 3 FR 25 PSI.

Minimum 0.5" thick N/A N/A

Note: Both layers of insulation shall be simultaneously mechanically fastened; see top layer below for fasteners and density.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.5" thick 1 with 3 or 2 with 3 1:1.45 ft²

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

Base Sheet: One ply of DynaGrip Base SD/SA or BaseGrip SD/SA fully bonded by self-

adhering with minimum 4" side laps.

Or

DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S, or DynaLastic 250 S fully bonded in MBR Cold Application Adhesive applied at a rate of 1.5 gal/sq. with minimum 3" side laps

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

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive (not for use with self-adhering base) at a rate of 1.5 gal/sq. or asphalt applied in the EVT range at a rate

of 20-40 lbs./sq.

Or

One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering



NOA No.: 21-0303.24 Expiration Date: 07/19/26 Approval Date: 07/22/21 Page 39 of 63 Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with MBR Cold Application Adhesive (not for use with self-adhering base) at a rate of 1.5

gal/sq. or asphalt applied in the EVT range at a rate of 20-40 lbs./sq.

Or

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaWeld Cap 250 FR CR G, DynaMax FR HW, or

DynaMax FR HW CR fully bonded by torch adhering.

Maximum Design

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



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(2): All layers of insulation simultaneously mechanically fastened.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR. ENRGY 3 FR 25 PSI

Minimum 0.5" thick N/A N/A

Note: Both layers of insulation shall be simultaneously mechanically fastened; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
JM SECUROCK Gypsum Fiber Roof		
Minimum 0.25" thick	1 with 3 or 2 with 3	1:1.45 ft ²

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

Base Sheet: One ply of DynaGrip Base SD/SA or BaseGrip SD/SA self-adhered with minimum

4" side laps.

Or

One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180S, DynaFast 180 S, DynaPly T1, DynaMax S, DynaLastic 250 S applied in MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or hot asphalt within EVT range

at a rate of 20-25 lbs/sq. with minimum 4" side laps.

Or

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 minimum 4"

slide laps.

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

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or

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

Or

One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering



NOA No.: 21-0303.24 Expiration Date: 07/19/26 Approval Date: 07/22/21 Page 41 of 63 Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or asphalt applied in the EVT

range at a rate of 20-40 lbs./sq.

Or

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR fully bonded by torch adhering.

Maximum Design

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



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(3): All layers of insulation simultaneously mechanically fastened.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR. ENRGY 3 FR 25 PSI

Minimum 1.5" thick N/A N/A

Note: Both layers of insulation shall be simultaneously mechanically fastened; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
JM SECUROCK Gypsum Fiber Roof Board		
Minimum 0 25" thick	1 with 3 or 2 with 3	1.1 78 ft ²

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

Base Sheet: One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S,

DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or asphalt applied in the

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

Or

One or more plies of DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering

Or

One ply of DynaGrip Base SD/SA or JM BaseGrip SD/SA self-adhered with a hot

asphalt or heat welded ply and/or cap sheet.

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

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or

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

Or

One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering



NOA No.: 21-0303.24 Expiration Date: 07/19/26 Approval Date: 07/22/21 Page 43 of 63 Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

> DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with MBR Cold Application Adhesive at a rate of 1.5 gal/sq. or asphalt applied in the EVT

range at a rate of 20-40 lbs./sq.

Or

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR fully bonded by torch adhering.

Maximum Design

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



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(4): All layers of insulation simultaneously mechanically fastened.

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR. ENRGY 3 FR 25 PSI, Fesco Foam, DuraFoam

Minimum 2.0" thick N/A N/A

Note: Both layers of insulation shall be simultaneously mechanically fastened; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
JM SECUROCK Gypsum-Fiber Roof Board		
Minimum ½" thick	1 with 3 or 2 with 3	1:1.78 ft ²

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

Base Sheet:

One ply of PermaPly 28, DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S, or GlasBase Plus adhered to the insulated substrate in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or with MBR Bonding Adhesive at an application rate of 1.5 gal./sq.

Or.

One ply of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S adhered to the insulated substrate with MBR Cold Application Adhesive at an application rate of 1.5 gal./sq.

Or

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

Or

One ply of DynaGrip Base SD/SA or BaseGrip SD/SA self-adhered with a hot asphalt or heat welded ply and/or cap sheet.



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(Optional unless a GlasKap membrane listed in the membrane options is used.) One or more plies of GlasPly Premier, GlasPly IV, DynaLastic 180 S, DynaFast 180 S, DynaLastic 250 S, DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered to the base sheet with approved mopping of asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or with MBR Bonding Adhesive at an application rate of 1.5 gal./sq.

Or

One or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S adhered with MBR Cold Application Adhesive at an application rate of 1.5 gal./sq.

Or

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

Membrane:

One or more plies of DynaGlas FR CR, DynaGlas FR CR G, DynaKap FR T1, DynaKap FR T1 CR G, DynaMax FR, DynaMax FR CR, DynaMax Plus, DynaGlas, DynaGlas FR, DynaGlas 30 FR, DynaGlas FR XT, DynaLastic 180, DynaLastic 180 FR, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G or DynaPly T1 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., MBR Bonding Adhesive at an application rate of 1.5 gal./sq., MBR Cold Application Adhesive at an application rate of 1.5 gal./sq.

Or

One ply DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap FR XT, DynaMax FR HW, DynaMax FR HW CR, DynaKap FR T1 HW CR G, DynaWeld Cap 180 FR, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, or DynaWeld Cap 250 FR CR G heat welded. Or

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap or, GlasKap Plus adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing:

(Optional with FR membranes) Install one of the following:

- 1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.
- 2. Henry 280 in two coats applied at a rate of 1.0 gal./sq./coat.

Maximum Design

Pressure:

-75 psf. (See general limitation #7).



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(5): All layers of insulation simultaneously mechanically fastened

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR. ENRGY 3 FR 25 PSI

Minimum 0.5" thick N/A N/A

Note: Both layers of insulation shall be simultaneously mechanically fastened; see top layer below for fasteners and density.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Pensity/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI, ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 2" thick 1 with 3 or 2 with 3 1:1.45 ft²

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

Base Sheet: One ply of DynaGrip Base SD/SA or BaseGrip SD/SA fully bonded by self-

adhering with minimum 4" side laps.

Or

DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S, or DynaLastic 250 S fully bonded in MBR Cold Application Adhesive applied at a rate of 1.5 gal/sq. with minimum 3" side laps.

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

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive (not for use with self-adhering base) at a rate of 1.5 gal/sq. or asphalt applied in the EVT range at a rate

of 20-40 lbs./sq.

Or

One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering



NOA No.: 21-0303.24 Expiration Date: 07/19/26 Approval Date: 07/22/21 Page 47 of 63 Membrane:

One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with MBR Cold Application Adhesive (not for use with self-adhering base) at a rate of 1.5 gal/sq. or asphalt applied in the EVT range at a rate of 20-40 lbs./sq.

Or

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaWap FR T1 HW CR G, DynaMax FR HW, or DynaMax FR HW CR fully bonded by torch adhering.

Maximum Design

Pressure: -90 psf. (See General Limitation #7).



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Deck Type 2I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type C(6): All layers of insulation simultaneously mechanically fastened

All General and System limitations apply.

One or more layers of the following insulations:

Base Insulation Layer (Optional) Insulation Fasteners Fastener

(Table 3) Density/ft²
. R-Panel, R-Panel 25 PSI.

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 0.5" thick N/A N/A

Note: Both layers of insulation shall be simultaneously mechanically fastened; see top layer below for fasteners and density.

Top Insulation Layer Insulation Fasteners Fastener (Table 3) Pensity/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI, ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 2" thick 1 with 3 or 2 with 3 1:1.78 ft²

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

Base Sheet: One ply of DynaGrip Base SD/SA or BaseGrip SD/SA fully bonded by self-

adhering with minimum 4" side laps.

Or

DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaMax S, or DynaLastic 250 S fully bonded in MBR Cold Application Adhesive applied at a rate of 1.5 gal/sq. with minimum 3" side laps.

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

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive (not for use with self-adhering base) at a rate of 1.5 gal/sq. or asphalt applied in the EVT range at a rate

of 20-40 lbs./sq.

Or

One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch adhering.



NOA No.: 21-0303.24 Expiration Date: 07/19/26 Approval Date: 07/22/21 Page 49 of 63 Membrane:

One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus fully bonded with MBR Cold Application Adhesive (not for use with self-adhering base) at a rate of 1.5 gal/sq. or asphalt applied in the EVT range at a rate of 20-40 lbs./sq.

Or

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR fully bonded by torch adhering.

Maximum Design

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



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(1): All layers of insulation simultaneously mechanically fastened with base sheet.

All General and System limitations apply.

One or more layers of any of the following insulations:

Base or Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR. ENRGY 3 FR 25 PSI

Minimum 1.5" thick N/A N/A

Note: Top layer shall have preliminary attachment, prior to the installation of the base sheet, at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet: PermaPly 28, GlasBase Plus, DynaBase, DynaBase XT, DynaBase PR, or

Ventsulation Felt fastened to the deck through the insulation as described below:

Fastening: Fasten base sheet with Structural Concrete Deck Fastener or All Purpose Fastener

and UltraFast Metal Plates at a 4" side lap 9" o.c. and two rows staggered in the

center of the sheet 12" o.c.

Ply Sheet: Option 1: Over PermaPly 28 only, one or more plies of GlasPly Premier, GlasPly

IV, DynaLastic 180 S, DynaFast 180 S, DynaLastic 250 S, DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered to the base sheet with approved mopping of asphalt within the EVT range and at a rate of 20-40 lbs./sq.

Or

Option 2: Over GlasBase Plus or PermaPly 28 only, one of DynaGrip Base SD/SA self-adhered to the base sheet with a cap or additional plies applied in hot asphalt

by torch adhering

Or

Option 3: Over SBS base sheets only, one or more plies of DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, or DynaMax S fully bonded with MBR Cold Application Adhesive or MBR

Bonding Adhesive at a rate of 1.5-2.0 gal/sq.

Or

Option 4: One or more plies of DynaWeld Base, DynaBase HW, DynaWeld 180 S, DynaFast 180 HW, DynaWeld 250 S, or DynaFast 250 HW fully bonded by torch

adhering



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One or more plies of DynaGlas FR CR, DynaGlas FR CR G, DynaKap FR T1, DynaKap FR T1 CR G, DynaMax FR, DynaMax FR CR, DynaMax FR Plus, DynaGlas, DynaGlas FR, DynaGlas 30 FR, DynaGlas FR XT, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180, FR CR G, DynaLastic 180 S, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G or DynaPly T1 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or with MBR Bonding Adhesive or MBR Cold Application Adhesive at an application rate of 1.5-2.0 gal./sq.

One ply of DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or DynaMax FR HW CR fully bonded by torch adhering.

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap or, GlasKap Plus adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Surfacing:

(Optional) Install one of the following:

- 1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.
- 2. (Optional with FR membranes) Henry 280 in two coats applied at a rate of 1.0 gal./sq./coat.

Maximum Design

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



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(2): All layers of insulation simultaneously mechanically fastened with base sheet.

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base or Top Insulation Layer Insulation Fasteners Fastener

(Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI, ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.5" thick N/A N/A

Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Base Sheet: One ply of DynaFast 180 S fastened to the deck through the insulation as described

below:

Fastening: Fasten base sheet with All Purpose Fasteners and High Load Plates at a minimum

4" side lap at 6" o.c. Side laps are heat welded.

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.

Cap Sheet: One ply of DynaGlas FR, DynaGlas FR CR G, DynaLastic 180, DynaLastic 180

FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT,

DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus 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: -105 psf. (See general limitation #7).



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(3): All layers of insulation simultaneously mechanically fastened with base sheet

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base or Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.5" thick N/A N/A

Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Base Sheet: One ply of DynaFast 250 HW mechanically fastened through the insulation with

All Purpose Fasteners and High Load Plates spaced 6" o.c. in the center of the

minimum 4" torch welded side laps.

Ply Sheet: (Optional) One or more plies of DynaFast 250 HW a heat welded while

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

Membrane: One ply of DynaWeld Cap 180 FR, DynaWeld Cap FR XT, DynaWeld Cap 250,

DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or DynaMax FR HW CR heat

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

Maximum Design

Pressure: - 165 psf. (See General Limitation #7.)



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(4): All layers of insulation simultaneously mechanically fastened with base sheet

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base or Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.5" thick N/A N/A

Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

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

mechanically fastened through the insulation with All Purpose Fasteners and High Load Plates spaced 12" 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 250 S or DynaFast

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

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

DynaWeld Cap FR XT, DynaMax FR HW, DynaMax FR HW CR, DynaKap FR T1 HW CR G, DynaWeld Cap 180 FR, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, or DynaWeld Cap 250 FR CR G heat welded

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

Maximum Design

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



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Deck Type 3I: Steel, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(5): All layers of insulation simultaneously mechanically fastened with base sheet

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base or Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.5" thick N/A N/A

Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Base Sheet: One ply of DynaFast 180 S mechanically fastened through the insulation with All

Purpose Fasteners and High Load Plates spaced 12" 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 ply of DynaGlas FR, DynaGlas FR CR G, DynaLastic 180, DynaLastic 180

FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT,

DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus 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: - 67.5 psf. (See General Limitation #7.)



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(6): All layers of insulation simultaneously mechanically fastened with base sheet

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base or Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI, ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.0" thick N/A N/A

Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

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

mechanically fastened through the insulation with All Purpose Fasteners and High Load Plates 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 250 S or DynaFast

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

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

DynaWeld Cap FR XT, DynaMax FR HW, DynaMax FR HW CR, DynaKap FR T1 HW CR G, DynaWeld Cap 180 FR, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, or DynaWeld Cap 250 FR CR G heat welded

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

Maximum Design

Pressure: - 142.5 psf. (See General Limitation #7.)



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(7): All layers of insulation simultaneously mechanically fastened with base sheet

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base or Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI,

ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.0" thick N/A N/A

Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Base Sheet: One ply of DynaFast 180 S or DynaFast 250 HW mechanically fastened through

the insulation with All Purpose Fasteners and High Load Plates spaced 6" o.c. in every other lap of the minimum 4" torch welded side laps in rows maximum 70"

o.c.

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

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

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

DynaWeld Cap FR XT, DynaMax FR HW, DynaMax FR HW CR, DynaKap FR T1 HW CR G, DynaWeld Cap 180 FR, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR, or DynaWeld Cap 250 FR CR G heat welded

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

Maximum Design

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



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Deck Type 3I: Concrete, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type D(8): All layers of insulation simultaneously mechanically fastened with base sheet

All General and System Limitations apply.

One or more layers of any of the following insulations:

Base or Top Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft²

ENRGY 3, ENRGY 3 25 PSI, ValuTherm, ValuTherm 25 PSI, R-Panel, R-Panel 25 PSI, ENRGY 3 AGF, ENRGY 3 AGF 25 PSI, ValuTherm AGF, ValuTherm AGF 25 PSI,

ENRGY 3 CGF, ENRGY 3 CGF 25 PSI, ValuTherm CGF, ValuTherm CGF 25 PSI,

ENRGY 3 FR, ENRGY 3 FR 25 PSI

Minimum 1.0" thick N/A N/A

Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.

Base Sheet: One ply of DynaFast 180 S mechanically fastened through the insulation with All

Purpose Fasteners and High Load Plates spaced 6" o.c. in every other lap of the

minimum 4" torch welded side laps in rows maximum 70" o.c.

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 ply of DynaGlas FR, DynaGlas FR CR G, DynaLastic 180, DynaLastic 180

FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT,

DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR Plus 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: - 52.5 psf. (See General Limitation #7.)



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type F(1): Base sheet fully adhered.

All General and System limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet.

Base Sheet: One or more plies of One ply of DynaBase, DynaBase PR, DynaBase XT,

DynaLastic 180 S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S

or Ventsulation Felt applied to the deck in MBR Bonding Adhesive at an

application rate of 1.5 gal./sq.

Ply Sheet: (Optional) One or more plies of GlasPly Premier or GlasPly IV fiber glass felts

adhered in MBR Bonding Adhesive at an application rate of 1.5 gal./sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in MBR Bonding

Adhesive at an application rate of 1.5 gal./sq.

Surfacing: (Optional) Install one of the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. and 400

lbs./sq., respectively.

Maximum Design

Pressure: -495 psf. (See General Limitation #9).



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type F(2): (Optional) Base sheet fully adhered

All General and System limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet.

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

180 HW, DynaWeld 250 S, or DynaFast 250 HW heat welded to concrete deck.

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

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

DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or

DynaMax FR HW CR heat welded to the base sheet.

Maximum Design

Pressure: -315 psf. (See General Limitation #9).



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Deck Type 3: Concrete Decks, Non-Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type F(3): (Optional) Base sheet fully adhered with approved asphalt.

All General and System limitations apply.

Note: Concrete deck shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet.

Base Sheet: One ply of PermaPly 28, DynaBase, DynaBase PR, DynaBase XT, DynaLastic 180

S, DynaFast 180 S, DynaPly T1, DynaLastic 250 S, DynaMax S or GlasBase Plus adhered to the properly primed concrete deck in a full mopping of approved asphalt

applied within the EVT range and at a rate of 20-40 lbs./sq.

Ply Sheet: (Optional unless a GlasKap membrane listed in the membrane options is used.)

One or more plies of GlasBase Plus, PermaPly 28, GlasPly Premier, GlasPly IV, DynaLastic 180 S, DynaFast 180 S, DynaLastic 250 S, DynaBase, DynaBase PR, DynaBase XT, DynaMax S or DynaPly T1 adhered to the base sheet with approved mopping of asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.

Membrane: One ply of DynaGlas 30 FR, DynaGlas, DynaGlas FR CR, DynaGlas FR,

DynaGlas FR CR G, DynaLastic 180, DynaLastic 180 FR, DynaLastic 180 FR CR, DynaLastic 180 FR CR G, DynaGlas FR XT, DynaKap FR T1, DynaKap FR T1 CR G, DynaLastic 250 FR, DynaLastic 250 FR CR, DynaLastic 250 FR CR G, DynaMax FR, DynaMax FR CR, or DynaMax FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. or one ply DynaWeld Cap FR, DynaWeld Cap FR CR, DynaWeld Cap FR CR G, DynaWeld Cap 180 FR CR, DynaWeld Cap FR XT, DynaWeld Cap 250, DynaWeld Cap 250 FR, DynaWeld Cap 250 FR CR,

DynaWeld Cap 250 FR CR G, DynaKap FR T1 HW CR G, DynaMax FR HW, or DynaMax FR HW CR heat welded. (See application instructions for approved

method of installation).

Or

(Requires to be used with a Modified Bitumen Ply Sheet listed above.) GlasKap adhered in a full mopping of approved asphalt applied within the EVT range and at

a rate of 20-40 lbs./sq.

Surfacing: (Optional) Install the following:

1. Flood coat and gravel/slag with an application rate of 60 lbs./sq. & 400 lbs./sq.,

respectively.

Maximum Design

Pressure: -275 psf. (See General Limitation #9).



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CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.

GENERAL LIMITATIONS:

- 1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
- 2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
- 3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
- 4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
- 5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
- 6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered 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



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