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#### GAF **1** Campus Drive Parsippany, NJ 07054

#### **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:** GAF Ruberoid<sup>®</sup> Modified Bitumen Roof System for Steel 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.

11/07/24

This NOA renews and revises NOA No. and consists of pages 1 through 88. m2.W The submitted documentation was reviewed by Jorge L. Acebo.



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## **ROOFING SYSTEM APPROVAL**

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Modified Bitumen
<u>Material:</u>	APP/SBS
<u>Deck Type:</u>	Steel
<u>Maximum Design Pressure:</u>	-120 psf.

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

		Test	Product
<b>Product</b>	<b>Dimensions</b>	<b>Specification</b>	<b>Description</b>
GAFGLAS <sup>®</sup> Ply 4	39.37"	ASTM D2178	Smooth surfaced asphaltic ply sheet
	(1 meter) Wide		reinforced with fiberglass mat.
Tri-Ply <sup>®</sup> Ply 4	39.37"	ASTM D2178	Smooth surfaced asphaltic ply sheet
	(1 meter) Wide		reinforced with a fiberglass mat.
GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6	39.37"	ASTM D2178	Smooth surfaced asphaltic ply sheet
	(1 meter) Wide		reinforced with fiberglass mat.
GAFGLAS <sup>®</sup> #75Base	39.37"	ASTM D4601	Smooth asphaltic base or base/ply sheet
Sheet	(1 meter) Wide		reinforced with fiberglass mat.
Tri-Ply <sup>®</sup> #75 Base Sheet	39.37"	ASTM D4601	Smooth asphaltic base or base/ply sheet
	(1 meter) Wide		reinforced with a fiberglass mat.
GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup>	39.37"	ASTM D4601	Smooth asphaltic base or base/ply sheet
Base Sheet	(1 meter) Wide		reinforced with fiberglass mat.
GAFGLAS <sup>®</sup> Stratavent <sup>®</sup>	39.37"	ASTM D4897	Smooth surfaced asphaltic perforated
Perforated Venting Base	(1 meter) Wide		venting base sheet reinforced with
Sheet			fiberglass mat.
GAFGLAS <sup>®</sup> Stratavent <sup>®</sup>	39.37"	ASTM D4897	Smooth surfaced asphaltic nailable
Nailable Venting Base	(1 meter) Wide		venting base sheet reinforced with
Sheet			fiberglass mat. Bottom side surfaced
			with granules.
GAFGLAS <sup>®</sup> Mineral-	39.37"	ASTM D3909	Granule surfaced asphaltic cap sheet
Surfaced Cap Sheet	(1 meter) Wide		reinforced with fiberglass mat.
Tri-Ply <sup>®</sup> BUR Granule	39.37"	ASTM D3909	Granule surfaced asphaltic cap sheet
Cap Sheet	(1 meter) Wide		reinforced with a fiberglass mat.
GAFGLAS®	39.37"	ASTM D3909	Granule surfaced asphaltic cap sheet
EnergyCap <sup>TM</sup> Mineral-	(1 meter) Wide		reinforced with fiberglass mat. Cap
Surfaced Cap Sheet			sheet is factory coated with
			EnergyCote <sup>TM</sup> .
Ruberoid <sup>®</sup> HW 25 Smooth	39.37"	ASTM D6163	Smooth surfaced torch applied SBS
	(1 meter) Wide		base or ply sheet reinforced with a
			fiberglass mat.
Ruberoid <sup>®</sup> HW Smooth	39.37"	ASTM D6164	Smooth surfaced torch applied SBS
Ruberola IIW Shibbui	(1 meter) Wide	ASTIN DOI04	base or ply sheet reinforced with a
	(1 meter) whee		polyester mat.
			poryester mat.
Ruberoid <sup>®</sup> HW Granule	39.37"	ASTM D6164	Granule surfaced torch applied SBS
	(1 meter) Wide		cap sheet reinforced with a polyester
			mat.



		Test	Product
<u>Product</u>	<b>Dimensions</b>	<b>Specification</b>	<b>Description</b>
Ruberoid <sup>®</sup> HW Granule FR	39.37" (1 meter) Wide	ASTM D6164	Fire retardant granule surfaced heat- welded SBS cap sheet reinforced with a polyester mat.
Ruberoid <sup>®</sup> HW Plus	39.37"	ASTM D6164	Granule surfaced torch applied SBS
Granule	(1 meter) Wide		cap sheet reinforced with a polyester mat.
Ruberoid <sup>®</sup> HW Plus Granule FR	39.37" (1 meter) Wide	ASTM D6164	Fire retardant granule surfaced torch applied SBS cap sheet reinforced with a polyester mat.
Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup>	39.37"	ASTM D6164	Fire retardant granule surfaced heat-
HW Plus Granule FR	(1 meter) Wide		welded SBS cap sheet reinforced with a polyester mat. Cap sheet is factory coated with EnergyCote <sup>TM</sup> .
Ruberoid <sup>®</sup> Torch Smooth	39.37" (1 meter) Wide	ASTM D6222	Smooth surfaced torch applied APP base or ply sheet reinforced with a polyester mat.
Tri-Ply <sup>®</sup> APP Smooth	39.37" (1 meter) Wide	ASTM D6222	Smooth surfaced torch applied APP cap, base or ply sheet reinforced with a polyester mat
Ruberoid <sup>®</sup> Torch Granule	39.37"	ASTM D6222	Granule surfaced torch applied APP
	(1 meter) Wide		cap sheet reinforced with a polyester mat.
Tri-Ply <sup>®</sup> APP Granule	39.37"	ASTM D6222	Granule surfaced torch applied APP
	(1 meter) Wide		cap sheet reinforced with a polyester mat.
Ruberoid <sup>®</sup> Torch Plus Granule FR	39.37"	ASTM D6222	Fire retardant granule surfaced torch
Ofallule FK	(1 meter) Wide		applied APP cap sheet reinforced with a polyester mat.
Ruberoid <sup>®</sup> EnergyCap <sup>™</sup>	39.37"	ASTM D6222	Fire retardant granule surfaced torch
Torch Granule FR	(1 meter) Wide		applied APP cap sheet reinforced with a polyester mat. Cap sheet is factory coated with EnergyCote <sup>™</sup> .
Ruberoid <sup>®</sup> 20 Smooth	39.37"	ASTM D6163	SBS polymer-modified asphalt base or
	(1 meter) Wide		ply sheet reinforced with a fiberglass mat.
Ruberoid <sup>®</sup> 30 Granule	39.37" (1 meter) Wide	ASTM D6163	Granule surfaced mop applied SBS cap sheet reinforced with a fiberglass mat.
Ruberoid <sup>®</sup> 30 Granule FR	39.37"	ASTM D6163	Fire retardant granule surfaced mop
	(1 meter) Wide		applied SBS cap sheet reinforced with fiberglass mat.
Ruberoid <sup>®</sup> 30 Plus Granule FR	39.37" (1 meter) Wide	ASTM D6163	Fire retardant granule surfaced mop applied SBS cap sheet reinforced with fiberglass mat.
Ruberoid <sup>®</sup> Mop Granule	39.37"	ASTM D6164	Granule surfaced mop applied SBS cap
	(1 meter) Wide		sheet reinforced with a polyester mat.
Tri-Ply <sup>®</sup> SBS Granule	39.37"	ASTM D6164	Granule surfaced mop applied SBS cap
	(1 meter) Wide		sheet reinforced with a polyester mat.



		Test	Product
<u>Product</u>	<b>Dimensions</b>	<b>Specification</b>	<b>Description</b>
Intec Flex PRF	39.37"	ASTM D6164	Granule surfaced mop applied SBS cap
	(1 meter) Wide		sheet reinforced with a polyester mat.
Ruberoid <sup>®</sup> Mop Smooth	39.37"	ASTM D6164	Smooth surfaced mop applied SBS
	(1 meter) Wide		base or ply sheet reinforced with a
			polyester mat.
Ruberoid <sup>®</sup> Mop Smooth	39.37"	ASTM D6164	Smooth surfaced mop applied SBS
1.5	(1 meter) Wide		base or ply sheet reinforced with a
			polyester mat.
Ruberoid <sup>®</sup> Mop Plus	39.37"	ASTM D6164	Smooth surfaced mop applied SBS
Smooth	(1 meter) Wide		base or ply sheet reinforced with a
<u>_</u>			polyester mat.
Ruberoid <sup>®</sup> Mop Plus	39.37"	ASTM D6164	Granule surfaced mop applied SBS cap
Granule	(1 meter) Wide		sheet reinforced with a polyester mat.
Ruberoid <sup>®</sup> Mop Plus	39.37"	ASTM D6164	Fire retardant granule surfaced mop
Granule FR	(1 meter) Wide		applied SBS cap sheet reinforced with
			a polyester mat.
Ruberoid <sup>®</sup> EnergyCap <sup>™</sup>	39.37"	ASTM D6164	Fire retardant granule surfaced mop
Mop Plus Granule FR	(1 meter) Wide		applied SBS cap sheet reinforced with
			a polyester mat. Cap sheet is factory
	20.272		coated with EnergyCote <sup>™</sup> .
Ruberoid <sup>®</sup> Mop Granule	39.37"	ASTM D6164	Fire retardant granule surfaced mop
FR	(1 meter) Wide		applied SBS cap sheet reinforced with
	20.27	ACTM D(1/2)	a polyester mat.
Ruberoid <sup>®</sup> EnergyCap™ 30 Granule FR	39.37"	ASTM D6163	Fire retardant granule surfaced mop
50 Granule FK	(1 meter) Wide		applied SBS cap sheet reinforced with a fiberglass mat. Cap sheet is factory
			coated with EnergyCote <sup><math>TM</math></sup> .
Matrix <sup>™</sup> 102 SBS	3, 5 or 55	ASTM D3019	Fiber reinforced rubberized cold-
Membrane Adhesive	Gallons	71511vi D5019	applied adhesive for modified bitumen
	Ganons		roof systems.
			1001 5/500115.

# **APPROVED INSULATIONS:**

	TABLE 2	
Product Name	<b>Product Description</b>	Manufacturer (With Current NOA)
EnergyGuard <sup>™</sup> Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard <sup>™</sup> Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard <sup>™</sup> HD Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard <sup>™</sup> HD Plus Polyiso Insulation	High density polyisocyanurate foam insulation	GAF
EnergyGuard <sup>™</sup> RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF
EnergyGuard <sup>™</sup> RA Tapered Polyiso Insulation	Polyisocyanurate foam insulation	GAF
DensDeck <sup>®</sup> Roof Board	Gypsum board	Georgia-Pacific Gypsum LLC

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#### **APPROVED INSULATIONS:**

# TABLE 2Product NameProduct DescriptionManufacturer<br/>(With Current NOA)DensDeck® Prime® Roof BoardGypsum boardGeorgia-Pacific Gypsum LLCSECUROCK® Gypsum-Fiber RoofGypsum boardUSG CorporationBoardStructodek® High Density Fiber BoardHigh Density Fiber BoardBlue Ridge Fiber Board, Inc.

### **APPROVED FASTENERS:**

	ED I ASTERERS.	TABLE 3		
Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Drill-Tec <sup>™</sup> #12 Fastener	Phillips head, modified buttress thread, pinch point, carbon steel fastener for use in steel or wood decks. With CR-10 coating. Available with a pinch point or drill point.	#12 X 8" Max. Length, #3 Phillips Head	GAF
2.	Drill-Tec <sup>™</sup> #14 Fastener	Truss head, self-drilling, pinch point, high thread fastener for use in steel, wood or concrete decks.	#14 X 16" Max. Length, #3 Phillips Head.	GAF
3.	Drill-Tec™ XHD Fastener	Truss head, self-drilling, pinch point, high thread fastener for use in wood or steel decks.	#15 x 16" max. length, #3 Phillips head.	GAF
4.	Drill-Tec <sup>™</sup> ASAP 3S	Drill-Tec <sup>™</sup> #12 Fastener with Drill-Tec <sup>™</sup> 3" Standard Steel Plate.	See Components	GAF
5.	Drill-Tec <sup>™</sup> AccuTrac <sup>®</sup> Flat Plate	A2-SS aluminized steel plate for use with Drill- Tec <sup>™</sup> fasteners.	3" Square; .017" Thick	GAF
6.	Drill-Tec <sup>™</sup> AccuTrac <sup>®</sup> Recessed Plate	Galvalume <sup>®</sup> steel plate with recess for use with Drill-Tec <sup>™</sup> fasteners.	3" Square; .017" Thick.	GAF
7.	Drill-Tec <sup>™</sup> 3" Steel Plate	Round Galvalume <sup>®</sup> steel stress plate with reinforcing ribs and recessed for use with Drill-Tec <sup><math>TM</math></sup> fasteners.	3" Round	GAF
8.	Drill-Tec <sup>™</sup> 3" Standard Steel Plate	Galvalume <sup>®</sup> coated steel stress plate for use with approved Drill-Tec <sup><math>TM</math></sup> fasteners.	3" Round	GAF



## **APPROVED FASTENERS:**

		TABLE 3		
Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
9.	Drill-Tec <sup>™</sup> 3 in. Ribbed Galvalume Plate (Flat)	Round Galvalume <sup>®</sup> plated steel stress plate with reinforcing ribs for use with Drill-Tec <sup>TM</sup> fasteners.	3" Round	GAF
10.	Drill-Tec <sup>™</sup> 2 in. Barbed Plate	Round galvanized steel stress plates for use with Drill-Tec <sup>TM</sup> fasteners.	2" Round	GAF
11.	Drill-Tec <sup>™</sup> 2 in. Double Barbed XHD Plate	Round galvanized steel stress plates for use with Drill-Tec <sup>™</sup> fasteners.	2" Round	GAF
12.	Drill-Tec <sup>™</sup> 2-3/8 in. Barbed XHD Plate	Round galvanized steel stress plates for use with Drill-Tec <sup>™</sup> fasteners.	2-3/8" Round	GAF
13.	Drill-Tec <sup>™</sup> Eyehook Accuseam Plates	Round Galvalume <sup>®</sup> steel plate for use with Drill- Tec <sup>™</sup> fasteners.	2-3/8" Round	GAF
14.	Drill-Tec <sup>™</sup> Batten Bar	Corrosion-free steel batten bar used to secure single-ply membranes to steel, wood and structural concrete roof decks.	3/4" or 1"	GAF

# **EVIDENCE SUBMITTED:**

Test Agency	<b>Test Identifier</b>	<b>Description</b>	Date
FM Approvals	1B9A8.AM	Class 4470	09/04/97
••	3D4Q2.AM	Class 4470	04/30/97
	3001276	Class 4470	01/28/99
	3005640	Class 4470	11/09/00
	3006845	Class 4470	10/17/00
	3007500	Class 4470	06/15/00
	3011140	Class 4470	08/14/01
	3013788	Class 4470	01/10/03
	3014547	Class 4470	05/22/03
	3017250	Class 4470	04/05/04
	3023458	Class 4450	07/18/06
	3024805	Class 4470	11/20/06
	3031350	Class 4470	09/27/07
	3032811	Class 4470	12/11/08
	3033719	Class 4470	12/24/08
	3035864	Class 4470	06/03/09
	3036614	Class 4470	06/09/09
	3036980	Class 4470	08/14/09
	3040738	Class 4470	05/31/11
	3041005	Class 4470	05/18/12



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# **EVIDENCE SUBMITTED: (CONTINUED)**

Test Agency	Test Identifier	<b>Description</b>	Date
FM Approvals	3041769	Class 4470	05/26/11
	3042887	Class 4470	11/14/11
	3043633	Class 4470	01/20/12
	3043900	Class 4470	08/16/12
	3044541	Class 4470	04/04/12
	3044862	Class 4470	05/11/12
	3046388	Class 4470	09/24/12
	3047104	Class 4470	08/29/13
	3048122	Class 4470	04/29/13
	3048496	Class 4470	12/19/13
	3048871	Class 4470	12/11/13
	3049601	Class 4470	01/29/14
	797-02-01-14-1	Class 4470	01/14/02
	797-06129-267	Class 4470	12/08/10
	797-08264-267	Class 4470	04/11/13
	797-10228-267	Class 4470	01/15/15
	RR202723	Class 4470	10/01/15
	RR202725	Class 4470	10/02/15
	FM Letter	Class 4470	09/15/15
UL LLC	R10689	UL 790	06/21/24
	R1306	UL 790	08/12/24
IRT-ARCON, Inc.	04-0041	TAS-114	01/26/04
	04-009	PA-114	01/26/04
Trinity Engineering	4483.04 97-1	TAS-114	06/06/97
Trinity   ERD	C8500SC.11.07	TAS-117	11/30/07
	G30250.02.10-3-R2	ASTM D3909	06/03/15
	SC6870.08.14-R1	ASTM D3909	09/04/14
	G34140.04.11-4-R2	ASTM D4601	06/04/15
	G34140.04.11-5-R3	ASTM D4897	06/04/15
	G40630.01.14-2B-R1	ASTM D6164	01/16/15
	G46160.02.15	ASTM D6163	02/12/15
	G46160.02.15-2D-1	ASTM D6163	02/09/16
	G46160.03.15	ASTM D6163	03/11/15
	G46160.09.14-2A	ASTM D6163	09/09/14
	G46160.09.14-3A	ASTM D6164	09/09/14
	G46160.09.14-3B	ASTM D6164	09/09/14
	G46160.09.14-3C	ASTM D6164	09/09/14
	G46160.12.14-3E	ASTM D6164	12/29/14
	SC6870.08.14-R1	ASTM D3909	09/04/14
	SC10195.10.15	TAS 114	10/16/15
	ASTM D6163	SC10680.05.16	05/10/16
	ASTM D6164	SC13105.03.17-R1	03/23/17
PRI Construction Materials	GAF-122-02-01	TAS 139	05/07/06
Technologies LLC	GAF-238-02-01	ASTM D1970	03/03/10
C	GAF-436-02-01	ASTM D1876	03/05/14
	GAF-436-02-02	TAS-114	03/05/14
	GAF-436-02-03	TAS-114	03/05/14
	GAF-436-02-04	TAS-114	03/05/14
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# **EVIDENCE SUBMITTED: (CONTINUED)**

Test Agency	Test Identifier	<b>Description</b>	Date
PRI Construction Materials	GAF-436-02-05	TAS-114	03/05/14
Technologies LLC	GAF-436-02-08	TAS-114	03/05/14
-	GAF-436-02-09	TAS-114	03/05/14
	ASTM D6164	376T0140	08/18/21
	ASTM D6163	376T0141	01/26/22
	ASTM D6222	376T0143	08/23/21
	ASTM D6222	376T0144	08/26/21
	ASTM D6164	376T0220	03/08/22
	ASTM D6164	376T0221	01/17/22
	ASTM D6222	376T0222	01/18/22
	ASTM D4897	376T0227	12/20/21
	ASTM D4897	376T0228	12/20/21
	ASTM D4601	376T0229	12/20/21
	ASTM D6222	376T0230	03/24/22
	ASTM D4601	376T0240	12/21/21
	ASTM D3909	376T0272	02/03/22
	ASTM D6222	376T0273	05/04/22
	ASTM D6222	376T0274	05/04/22
	ASTM D2178	376T0275	01/31/22
	ASTM D6163	376T0480	04/12/24
	ASTM D6164	376T0481	01/07/24
	ASTM D6164	376T0482	01/07/24
	ASTM D6164	376T0483	07/12/24
	ASTM D6164	376T0486	04/12/24
	ASTM D6163	824T0047	06/30/22
	ASTM D6164	824T0051	06/09/22
NEMO ETC, LLC	ASTM D6163	4Q-GAF-19-SSMBB-02.A	04/08/19
	ASTM D6164	4q-GAF-22-SSMBB-01.A	04/22/23
	ASTM D2178	4S-GAF-18-001.01.19-1	01/02/19
	ASTM D6222	4S-GAF-18-001.03.19.A-R1	03/13/19
	ASTM D6163	4S-GAF-18-001.11.18	11/06/18

# **DECK STRESS ANALYSIS CALCULATIONS/REPORTS**

Engineer/Agency	<u>Identifier</u>	Assemblies:	Date
FM Approval	N/A	B(1), B(2), B(5), B(10), B(11), B(12)	01/01/13
Deck Limitations	N/A	C(1), C(3), C(4), C(14), C(15), C(16), C(17)	01/01/13
	N/A	C(18), C(19), C(21), C(22), C(23), C(24), D(3)	01/01/13
	N/A	D(4), D(5), D(6), D(7), D(10), D(11), D(12)	01/01/13
Duc T. Nguyen, P.E.	GAF-436-02-02 Addendum Letter	C(5) for MDP -52.5 psf.	10/05/15
Duc T. Nguyen, P.E.	GAF-436-02-03 Addendum Letter	C(5) for MDP -60 psf.	10/05/15
Duc T. Nguyen, P.E.	GAF-436-02-04 Addendum Letter	C(6)	10/05/15
Duc T. Nguyen, P.E.	GAF-436-02-05 Addendum Letter	C(6)	10/05/15
Duc T. Nguyen, P.E.	GAF-436-02-09 Addendum Letter	C(7)	10/05/15
Duc T. Nguyen, P.E.	GAF-436-02-08 Addendum Letter	C(8)	10/05/15
Robert Nieminen, P.E.	Letter	C(2)	10/05/15



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#### **APPROVED ASSEMBLIES**

Minimum 2" thick

Membrane Type:	APP/SBS	
Deck Type 2I:	Steel, Insulated	
Deck Description:	Minimum 18-22 ga. steel Type B Grade 33 steel decking attached to steel supports spaced 6 ft. o.c. with ITW #12 HWH Teks 5 fasteners spaced 6" o.c. (at the bottom flute), and with side laps attached with ITW #10 or #12 HWH Teks 1 fasteners spaced at max. of 24" o.c. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>	
System Type B(1):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.	
Thermal Barrier: (Optional)		
All General and Sys	tem limitations apply.	
Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/fu		
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Polyiso Insulation		

Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

1, 2, & 6

Top Insulation Layer	<b>Insulation Fasteners</b>	Fastener	
	(Table 3)	Density/ft <sup>2</sup>	
SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board, DensDeck <sup>®</sup> Prime <sup>®</sup> Roof Board			
Minimum 1" 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 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	One ply of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4, GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6, GAFGLAS <sup>®</sup> #75 Base Sheet, Tri-Ply <sup>®</sup> #75 Base Sheet, GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet, Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Plus Smooth or Ruberoid <sup>®</sup> Mop Smooth 1.5 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.
Ply Sheet: (Optional)	One or more plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4, GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6, GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet, Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Plus Smooth or Ruberoid <sup>®</sup> Mop Smooth 1.5 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.



1:1.45 ft<sup>2</sup>

Membrane:	One or more plies of Ruberoid <sup>®</sup> Torch Smooth, Tri-Ply <sup>®</sup> APP Smooth, Ruberoid <sup>®</sup> Torch Granule, Tri-Ply <sup>®</sup> APP Granule, Ruberoid <sup>®</sup> Torch Plus Granule FR, or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Torch Granule FR torch applied in accordance with the manufacturer's instructions. OR
	Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. OR
	One or more plies of Ruberoid <sup>®</sup> HW 25 Smooth, Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR torch applied in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-60 psf. (See General Limitation #7.)



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 18-22 ga. steel Type B Grade 80 steel decking secured to minimum 1/4" steel supports spaced 6 ft. o.c. with ITW #12 HWH Teks 5 fasteners spaced 6" o.c. (at the bottom flute), and with side laps attached with ITW #10 or #12 HWH Teks 1 fasteners spaced at max. of 24" o.c. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>		
System Type B(2):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and System limitations apply.			
Base Insulation Layer Insulation Fasteners Fast			

EnergyGuard <sup>™</sup> Polyiso Insulation	
Minimum 1.5" thick	

Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

(Table 3)

1, 2, 3, 6, 7

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Densitv/ft <sup>2</sup>
SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board, DensDeck <sup>®</sup> Pri Minimum ½" thick	me Roof Board 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 ft<sup>2</sup>. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	One ply of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4, GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6, GAFGLAS <sup>®</sup> #75 Base Sheet, Tri-Ply <sup>®</sup> #75 Base Sheet, GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet, Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.
Ply Sheet: (Optional)	(Required when Mineral Surfaced Cap Sheets are used.) One or more plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4, GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6, GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet, Ruberoid <sup>®</sup> 20 Smooth Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20- 40 lbs./sq. in accordance with the manufacturer's instructions.



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Density/ft<sup>2</sup>

1:1.33 ft<sup>2</sup>

Membrane:	One or more plies of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. Or <b>(Required to only use with Ruberoid<sup>®</sup> 20 Smooth, Ruberoid<sup>®</sup> Mop Smooth, Ruberoid<sup>®</sup> Mop Plus Smooth or Ruberoid<sup>®</sup> Mop Smooth 1.5 ply sheet(s).)</b>	
	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.	
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.	
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.	
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.	
Maximum Design Pressure:	-90 psf. (See General Limitation #7)	



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
<b>Deck Description:</b>	Minimum 22 ga. steel, 33 ksi		
System Type B(3):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime <sup>®</sup> Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sys	tem limitations apply.		
Base Insulation Layer EnergyGuard <sup>™</sup> Polyiso Insulation Minimum 1.5" thick		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
		1, 2, 3, 4, 5, 6, 7	1:4 ft <sup>2</sup>
Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment.			
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso InsulationMinimum 1.5" thickN/AN/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 ft <sup>2</sup> . Please refer to Roofing Application Standard RAS 117 for insulation attachment.			
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Pertwith 2" side laps.	forated Venting Base Sheet	loose laid dry

Ply Sheet:<br/>(Optional)(Required when Mineral Surfaced Cap Sheets are used.)(Optional)One or more plies of GAFGLAS<sup>®</sup> Ply 4, Tri-Ply<sup>®</sup> Ply 4, GAFGLAS<sup>®</sup> FlexPly<sup>™</sup> 6,<br/>GAFGLAS<sup>®</sup> #80 Ultima<sup>™</sup> Base Sheet, Ruberoid<sup>®</sup> 20 Smooth Ruberoid<sup>®</sup> Mop<br/>Smooth, Ruberoid<sup>®</sup> Mop Smooth 1.5 or Ruberoid<sup>®</sup> Mop Plus Smooth adhered in a<br/>full mopping of approved asphalt applied within the EVT range and at a rate of 20-<br/>40 lbs./sq. in accordance with the manufacturer's instructions.



Membrane:	<ul> <li>One or more plies of Ruberoid<sup>®</sup> 30 Granule, Ruberoid<sup>®</sup> 30 Granule FR, Ruberoid<sup>®</sup> 30 Plus Granule FR, Ruberoid<sup>®</sup> Mop Granule, Tri-Ply<sup>®</sup> SBS Granule,Intec Flex PRF, Ruberoid<sup>®</sup> Mop Smooth, Ruberoid<sup>®</sup> Mop Smooth 1.5, Ruberoid<sup>®</sup> Mop Plus Smooth, Ruberoid<sup>®</sup> Mop Plus Granule, Ruberoid<sup>®</sup> Mop Plus Granule FR, Ruberoid<sup>®</sup> EnergyCap<sup>TM</sup> Mop Plus Granule FR, Ruberoid<sup>®</sup> EnergyCap<sup>TM</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied in accordance with the manufacturer's instructions.</li> <li>Or</li> <li>(Required to only use with Ruberoid<sup>®</sup> 20 Smooth, Ruberoid<sup>®</sup> Mop Smooth, Ruberoid<sup>®</sup> Mop Plus Smooth or Ruberoid<sup>®</sup> Mop Smooth 1.5 ply sheet(s).)</li> </ul>	
	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.	
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.	
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.	
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.	
Maximum Design Pressure:	-45 psf. (See General Limitation #9)	



Membrane Type:	SBS
Deck Type 2I:	Steel, Insulated
<b>Deck Description:</b>	Minimum 22 ga. steel, 33 ksi
System Type B(4):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation Minimum 1.5" thick	1, 2, 3, 4, 5, 6, 7	1:2 ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:3.2 ft <sup>2</sup>

Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Additional layer(s) of insulation shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Structodek <sup>®</sup> High Density Roofing Fiberboard Minimum 1/2" thick	N/A	N/A
DensDeck <sup>®</sup> Prime Roof Board, SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board Minimum 1/4" thick N/A		

Note: Top layer of insulation shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.

Base Sheet:	<ul> <li>Two or three plies of GAFGLAS<sup>®</sup> Ply 4, Tri-Ply<sup>®</sup> Ply 4 or GAFGLAS<sup>®</sup> FlexPly<sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. OR</li> <li>One or two plies of Ruberoid<sup>®</sup> Mop Smooth 1.5 or Ruberoid<sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.</li> </ul>	
Membrane:	Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR SBS Membrane adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.	



Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.		
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.		
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.		
Maximum Design Pressure:	-45 psf. (See General Limitation #9)		



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 ga. steel Type B Grade 33 steel decking attached to steel supports spaced 6 ft. o.c. with ICH Traxx/4 or 5, Teks 4 or Teks 5 fasteners spaced 6" o.c. and with side laps attached with Buildex Traxx/1 or Teks 1 fasteners spaced at max. of 24" o.c. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>		
System Type B(5):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and System limitations apply.			
Base Insulation Lay EnergyGuard <sup>™</sup> Poly	Yer Insulation Fasteners Fastener (Table 3) Density/ft <sup>2</sup> yiso Insulation, EnergyGuard <sup>™</sup> RA Polyiso Insulation		
Minimum 1.5" thick         1, 2, 3, 4, 5, 6, 7         1:1.33			
Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Additional layer(s) of insulation shall be adhered in a full mopping of			

for insulation attachment. Additional layer(s) of insulation shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Structodek <sup>®</sup> High Density Roofing Fiberboard Minimum 1/2" thick	N/A	N/A
DensDeck <sup>®</sup> Prime Roof Board, SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board Minimum 1/4" thick N/A N/A		

Note: Top layer of insulation shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.

Base Sheet:	Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. OR One or two plies of Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at
	a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.
Membrane:	Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR SBS Membrane adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.



Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-60 psf. (See General Limitation #7)



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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 ga., 33 ksi.		
System Type B(6):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and System limitations apply.			
Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft2			Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Polyiso Insulation			
Minimum 1.5" thic	ck	1, 2, 3, 4, 5, 6, 7	1:2 ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Polyiso Insulation			
Minimum 2" thick		1, 2, 3, 4, 5, 6, 7	1:3.2 ft <sup>2</sup>
Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117			

attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Structodek <sup>®</sup> High Density Roofing Fiberboard Minimum 1/2" thick	N/A	, N/A
DensDeck <sup>®</sup> Prime Roof Board, SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board Minimum 1/4" thick N/A		N/A

Note: Top layer of insulation shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.

Base Sheet:	Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. OR One or two plies of Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.
Membrane:	Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.



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Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.		
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.		
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.		
Maximum Design Pressure:	-45 psf. (See General Limitation #9)		



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
<b>Deck Description:</b>	Minimum 22 ga., 33 ksi.		
System Type B(7):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof B 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber		
All General and Sy	stem limitations apply.		
<b>Base Insulation Lay</b>	yer	<b>Insulation Fasteners</b>	Fastener
TM		(Table 3)	Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Pol Minimum 1.5" thic		1, 2, 3, 4, 5, 6, 7	1:3.2 ft <sup>2</sup>
	of insulation and optional thermal b fastener density listed. Please refer hment.		
Top Insulation Lay		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
DensDeck <sup>®</sup> Prime F Minimum 1/4" thic	Roof Board, SECUROCK <sup>®</sup> Gypsum k	-Fiber Roof Board N/A	N/A
<b>x v</b>	insulation shall be adhered in a full at a rate of 20-40 lbs./sq. in accord		
Base Sheet:	Two or three plies of GAFGLAS <sup>®</sup> adhered in a full mopping of approv a rate of 20-40 lbs./sq. in accordance OR One or two plies of Ruberoid <sup>®</sup> Mop adhered in a full mopping of approv a rate of 20-40 lbs. /sq. in accordance	ved asphalt applied within the E ce with the manufacturer's instru- o Smooth 1.5 or Ruberoid <sup>®</sup> Mor ved asphalt applied within the E	WT range and at uctions. Plus Smooth WT range and at
Membrane:	Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.		
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.		
1.	Gravel or slag applied at 400 lbs. of approved asphalt at 60 lbs. /sq.	/sq. and 300 lbs. /sq. respectivel	y in a flood coat
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Ca GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Minera mopping of approved asphalt appl lbs. /sq.	al-Surfaced Cap Sheet adhered	in a full
Maximum Design		N	
Pressure:	-45 psf. (See General Limitation #9	<i>י</i> )	
AMI-DADE COUNTY APPROVED			NOA No.: 24-1008 Diration Date: 11/00 Oproval Date: 11/07

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Membrane Type:	SBS
Deck Type 2I:	Steel, Insulated
<b>Deck Description:</b>	Minimum 22 ga., 33 ksi.
System Type B(8):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation Minimum 1.5" thick	1, 2, 3, 4, 5, 6, 7	1:2.67 ft <sup>2</sup>

Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners	Fastener
Structodek <sup>®</sup> High Density Roofing Fiberboard	(Table 3)	Density/ft <sup>2</sup>
Minimum 1/2" thick	N/A	N/A

Note: Top layer of insulation shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.

Base Sheet:	Two or three plies of GAFGLAS <sup>®</sup> Ply 4 or Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. OR One or two plies of Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.
Membrane:	Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.



Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
<b>Deck Description:</b>	Minimum 22 ga., 33 ksi.		
System Type B(9):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sys	stem limitations apply.		
Base Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Poly Minimum 2" thick		1, 2, 3, 4, 5, 6, 7	1:4 ft <sup>2</sup>
Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment.			
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Structodek <sup>®</sup> High Density Roofing Fiberboard Minimum 1/2" thick		N/A	N/A
DensDeck <sup>®</sup> Prime Roof Board, SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board Minimum 1/4" thick N/A N/A		N/A	
Note: Top layer of insulation shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.			
1 V			

a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.
 Membrane: Ruberoid<sup>®</sup> Mop Plus Granule FR, Ruberoid<sup>®</sup> EnergyCap<sup>TM</sup> Mop Plus Granule FR, Ruberoid<sup>®</sup> 30 Granule FR, Ruberoid<sup>®</sup> 30 Plus Granule FR or Ruberoid<sup>®</sup> EnergyCap<sup>TM</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.

Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)



Membrane Type:	SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	<ul> <li>Minimum 22 ga. steel Type B Grade 33 steel decking attached to steel supports spaced 6 ft. o.c. with ICH Traxx/4 or 5, Teks 4 or Teks 5 fasteners spaced 6" o.c. and with side laps attached with ICH Traxx/1 or Teks 1 fasteners spaced at max. of 24" o.c.</li> <li>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</li> </ul>
System Type B(10):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

(Table 3)	Density/ft <sup>2</sup>
2, 3, 4, 5, 6, 7	1:1.33 ft <sup>2</sup>
	(Table 3) 2, 3, 4, 5, 6, 7

Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Structodek <sup>®</sup> High Density Fiberboard Roof Insulation Minimum 1/2" thick	N/A	N/A
DensDeck <sup>®</sup> Prime Roof Board, SECUROCK <sup>®</sup> Gypsum-Fibe Minimum 1/4" thick	er Roof Board N/A	N/A

Note: Top layer of insulation shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.

Base Sheets:	Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. OR One or two plies of Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.
Membrane:	Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.



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Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-60 psf. (See General Limitation #7)



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Membrane Type:	SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	<ul> <li>Minimum 22 ga. steel Type B Grade 33 steel decking attached to steel supports spaced 6 ft. o.c. with ICH Traxx/4 or 5, Teks 4 or Teks 5 fasteners spaced 6" o.c. and with side laps attached with ICH Traxx/1 or Teks 1 fasteners spaced at max. of 24" o.c.</li> <li>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</li> </ul>
System Type B(11):	Base layer of insulation mechanically fastened, top layer adhered with approved asphalt.
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

Base Insulation Layer	<b>Insulation Fasteners</b>	Fastener
	(Table 3)	Density/ft <sup>2</sup>
<b>EnergyGuard<sup>™</sup> Polyiso Insulation, EnergyGuard<sup>™</sup></b>	<sup>M</sup> RA Polyiso Insulation	
Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:1.6 ft <sup>2</sup>

Note: Base layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board		
Minimum 1/4" thick	N/A	N/A

Note: Top layer of insulation shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.

Base Sheet:	One ply of Ruberoid <sup>®</sup> HW Smooth or Ruberoid <sup>®</sup> HW 25 Smooth, torch-applied in accordance with the manufacturer's instructions.
Ply Sheet: (Optional)	One ply of Ruberoid <sup>®</sup> HW Smooth or Ruberoid <sup>®</sup> HW 25 Smooth, torch-applied in accordance with the manufacturer's instructions.
Membrane:	One or more plies of Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR torch applied in accordance with the manufacturer's instructions. Or
	One or more plies of Ruberoid <sup>®</sup> Torch Smooth, Tri-Ply <sup>®</sup> APP Smooth, Ruberoid <sup>®</sup> Torch Granule, Tri-Ply <sup>®</sup> APP Granule, Ruberoid <sup>®</sup> Torch Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Torch Granule FR torch applied in accordance with the manufacturer's instructions.



Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-60 psf. (See General Limitation #7)



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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	<ul> <li>Minimum 22 ga. steel Type B Grade 33 steel decking attached to steel supports spaced 6 ft. o.c. with ICH Traxx/4 or 5, Teks 4 or Teks 5 fasteners spaced 6" o.c and with side laps attached with ICH Traxx/1 or Teks 1 fasteners spaced at max of 24" o.c.</li> <li>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</li> </ul>		eners spaced 6" o.c. ners spaced at max.
System Type B(12):	Base layer of insulation mechanical asphalt.	ly fastened, top layer adh	ered with approved
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Boar 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Ro		
All General and Sys	tem limitations apply.		
Base Insulation Lay		Insulation Fastener (Table 3)	rs Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> RA Minimum 2" thick	Polyiso Insulation	1, 2, 3, 4, 5, 6, 7	1:1.6 ft <sup>2</sup>
	f insulation and optional thermal bar astener density listed. Please refer to ment.		
Top Insulation Laye	er	Insulation Fastener (Table 3)	rs Fastener Density/ft <sup>2</sup>
SECUROCK <sup>®</sup> Gyps Minimum 1/4" thick	um-Fiber Roof Board	N/A	N/A
<b>x v</b>	nsulation shall be adhered in a full m at a rate of 20-40 lbs./sq. in accordan		
Base Sheet:	One ply of Ruberoid <sup>®</sup> Torch Smooth of accordance with the manufacturer's in		torch-applied in
Ply Sheet: (Optional)	One ply of Ruberoid <sup>®</sup> Torch Smooth or Tri-Ply <sup>®</sup> APP Smooth, torch-applied in accordance with the manufacturer's instructions.		torch-applied in
Membrane:	One or more plies of Ruberoid <sup>®</sup> Torch Smooth, Tri-Ply <sup>®</sup> APP Smooth, Ruberoid <sup>®</sup> Torch Granule, Tri-Ply <sup>®</sup> APP Granule, Ruberoid <sup>®</sup> Torch Plus Granule FR, or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Torch Granule FR torch applied in accordance with the manufacturer's instructions.		
C	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.		
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.		vely in a flood coat
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.		
Maximum Design			
Pressure:	-60 psf. (See General Limitation #7)		
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Membrane Type:	SBS/SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	Minimum 18-22 ga. steel Type B Grade 33 steel decking attached to steel supports spaced 6 ft. o.c. with Buildex Traxx/4 or 5 fasteners spaced 6" o.c. (at the bottom flute), and with side laps attached with Buildex Traxx/1 fasteners spaced at max. of 24" o.c. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>
System Type C(1):	Base sheet loose laid dry ; both layers of insulation simultaneously fastened.

<b>Thermal Barrier:</b>	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime <sup>®</sup> Roof Board,
(Optional)	1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Poly Minimum 1.5" thick	yiso Insulation N/A	N/A

Note: Both layers shall be simultaneously attached; see top layer below for fasteners and density.

Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
DensDeck <sup>®</sup> Roof Board		
Minimum 0.25" thick	1 & 7	1:1 ft <sup>2</sup>

Note: All layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** One ply of GAFGLAS<sup>®</sup> Stratavent<sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.

Ply Sheet:<br/>(Optional)(Required when Heat-Weld or Torch Membranes or Mineral Surfaced Cap<br/>Sheets are used.) One or more plies of GAFGLAS<sup>®</sup> Ply 4, Tri-Ply<sup>®</sup> Ply 4,<br/>GAFGLAS<sup>®</sup> FlexPly<sup>™</sup> 6, GAFGLAS<sup>®</sup> #80 Ultima<sup>™</sup> Base Sheet, Ruberoid<sup>®</sup> 20<br/>Smooth Ruberoid<sup>®</sup> Mop Smooth, Ruberoid<sup>®</sup> Mop Smooth 1.5 or Ruberoid<sup>®</sup> Mop<br/>Plus Smooth adhered in a full mopping of approved asphalt applied within the<br/>EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's<br/>instructions.



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Membrane:	One or more plies of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule,Intec Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. Or
	(Required to only use with ply sheet(s).) One or more plies of Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR torch applied or applied with an approved hot air welder in accordance with the manufacturer's instructions. Or
	(Required to only use with ply sheet(s).) One or more plies of Ruberoid <sup>®</sup> Torch Smooth, Tri-Ply <sup>®</sup> APP Smooth, Ruberoid <sup>®</sup> Torch Granule, Tri-Ply <sup>®</sup> APP Granule, Ruberoid <sup>®</sup> Torch Plus Granule FR, or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Torch Granule FR torch applied in accordance with the manufacturer's instructions. Or
	(Required to only use with Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Plus Smooth or Ruberoid <sup>®</sup> Mop Smooth 1.5 ply sheet(s).) GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-82.5 psf. (See General Limitation #7.)

Membrane Type:	SBS/SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	Minimum 22 gauge steel non-vented B-deck, Grade 33, attached to supports having a maximum spacing of 5' o.c. with puddle welds and washers at 6" o.c. and side laps with tech screws at 12"o.c. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>
System Type C(2):	Base sheet loose laid; insulation mechanically fastened.
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.
All General and Sys	stem limitations apply.

One or more layers of the following:		
Insulation Layer	<b>Insulation Fasteners</b>	Fastener
	(Table 3)	Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation Minimum 1.5" thick	1 & 6	1:1.45 ft <sup>2</sup>

Note: All layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2 in. side laps.
Ply Sheet:	One or more plies Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions
Membrane:	One or more plies of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. Or One or more plies of Ruberoid <sup>®</sup> HW 25 Smooth, Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule FR applied in accordance with the manufacturer's instructions. Or <b>(Required to only use with Ruberoid<sup>®</sup> 20 Smooth, Ruberoid<sup>®</sup> Mop Smooth, Ruberoid<sup>®</sup> Mop Smooth, Ruberoid<sup>®</sup> Mop Plus Smooth or Ruberoid<sup>®</sup> Mop Smooth 1.5 ply sheet(s).) GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>TM</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.</b>



Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-60 psf. (See General Limitation #7.)



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Membrane Type:	SBS/SBS			
Deck Type 2I:	Steel, Insulated			
Deck Description:	Minimum 22 gauge, Grade 33, steel dec structural supports 6 ft. (1.8m) o.c. with o.c. along the center of the supports. Dec with ITW Buildex TRAXX/1 fasteners. <b>This Tested Assembly has been analyz</b> <b>Submitted Table.</b>	ITW Buildex TRAXX/5 fast ck side laps are secured 24 in	eners 6 in. (1.52) . (610 mm) o.c.	
System Type C(3):	All insulation simultaneously fastened. I	Base sheet adhered to insulati	on.	
Thermal Barrier: (Optional) All General and Sys	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof tem limitations apply.			
e de la companya de la		Insulation Fasteners (Table 3) viso Insulation,	Fastener Density/ft <sup>2</sup>	
Minimum 2" thick		N/A	N/A	
Note: Both layers sh	all be simultaneously attached; see top	layer below for fasteners an	nd density.	
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>	
SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board Minimum 0.5" thick		1, 2, 4, 6, 7, 8	1:1.78 ft <sup>2</sup>	
Note: All layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.				
Base Sheet:	Two or more plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. and broomed in. Or One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.			
Ply Sheet:	One or more plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4, GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6, GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Smooth Plus adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.			



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Membrane:	One or more plies of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule,Intec Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. Or
	One or more plies of Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR torch applied in accordance with the manufacturer's instructions. Or
	(Required to only use with Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Plus Smooth or Ruberoid <sup>®</sup> Mop Smooth 1.5 ply sheet(s).) GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-60 psf. (See General Limitation #7)



Membrane Type:	APP/SBS Heat-Weld
Deck Type 2I:	Steel, Insulated
Deck Description:	Minimum 22 ga. steel deck, Grade 80, secured to 0.25 in. thick structural supports spaced 6' o.c. using two ICH Traxx/5 fasteners and 0.75 in. washers spaced 6 in. o.c. along each support. The deck side laps were fastened with ICH Traxx/1 fasteners spaced at 12 in. o.c. along each side lap. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>

System Type C(4): Base insulation loose laid; top layer of insulation is mechanically fastened.

<b>Thermal Barrier:</b>	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board,
(Optional)	1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

# All General and System limitations apply.

One or more layers of each of the following insulations.

Base Insulation Layer	<b>Insulation Fasteners</b>	Fastener	
	(Table 3)	Density/ft <sup>2</sup>	
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Pol	yiso Insulation		
Minimum 1.5" thick	N/A	N/A	
Note: Both layers shall be simultaneously attached; see top layer below for fasteners and density.			
Top Insulation Layer	<b>Insulation Fasteners</b>	Fastener	
	(Table 3)	Density/ft <sup>2</sup>	
SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board		·	
Minimum 0.5" thick	1&6	1:1 ft <sup>2</sup>	

Note: All layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	One or more plies of Ruberoid <sup>®</sup> HW 25 Smooth or Ruberoid <sup>®</sup> HW Smooth torch adhered with 3 in. wide side laps in accordance with manufacturer's instructions.
Membrane:	Ruberoid <sup>®</sup> Torch Smooth, Tri-Ply <sup>®</sup> APP Smooth, Ruberoid <sup>®</sup> Torch Granule,, Tri- Ply <sup>®</sup> APP Granule, Ruberoid <sup>®</sup> Torch Plus Granule FR, or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Torch Granule FR torch adhered with 3 in. wide side laps in accordance with manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Desig	'n

### Maximum Design

-120 psf. (See General Limitation # 7) Pressure:



Membrane Type: Deck Type 2I:	SBS Steel Insulated		
Deck Description:	<ul> <li>Steel, Insulated</li> <li>Minimum 22 gauge, type B, wide rib steel deck, Grade 33 secured to minimum 0.25 in. thick steel structural supports spaced at maximum 72 in. o.c. with 0.625 in. diameter puddle welds 6 in. o.c. The deck side laps are fastened 24 in. o.c. with #12-14 x 7/8in. HWH.</li> <li>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</li> </ul>		
System Type C(5):	All layers of insulation are mechanic adhered.	ally attached to the roof do	eck. Membrane is
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Boa 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber R		
All General and Sy	stem limitations apply.		
Base Insulation La	yer (Optional)	Insulation Fastener (Table 3)	rs Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Pol Minimum 1.5" thic	yiso Insulation k to Maximum 12" thickness.	N/A	N/A
Top Insulation Lay		Insulation Fastener (Table 3)	rs Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Pol Minimum 2"thick		1, 2, 3, 4, 5, 6, 7	1:2 ft <sup>2</sup>
	insulation shall be mechanically atta e. Please refer to Roofing Application		
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> with 2" side laps.	Perforated Venting Base S	heet loose laid dry
Ply Sheet: (Optional)	Ruberoid <sup>®</sup> Mop Smooth or Ruberoid of approved asphalt applied within th in accordance with the manufacturer Or One or more plies of GAFGLAS <sup>®</sup> Pl 6 adhered in a full mopping of appro	ne EVT range and at a rate 's instructions. y 4, Tri-Ply <sup>®</sup> Ply 4 or GA	r of 20-40 lbs. /sq. FGLAS <sup>®</sup> FlexPly™
	at a rate of 20-40 lbs./sq.	····	8
Membrane:	Ruberoid <sup>®</sup> Mop Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.		
Surfacing:	Optional on granular surfaced mem Chosen components must be applied application instructions.		
1.	Gravel or slag applied at 400 lbs. /sq of approved asphalt at 60 lbs. /sq.	. and 300 lbs. /sq. respective	vely in a flood coat
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap S GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-S of approved asphalt applied within the	Surfaced Cap Sheet adhere	ed in a full mopping
Maximum Design			
Pressure:	-60 psf. (See General Limitation # 7)		
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Membrane Type:	SBS			
Deck Type 2I:	Steel, Insulated			
Deck Description:	Minimum 22 gauge, type B, wide rib steel deck, Grade 33 secured to minimum 0.25 in. thick steel structural supports spaced at maximum 72 in. o.c. with 0.625 in. diameter puddle welds 6 in. o.c. The deck side laps are fastened 24 in. o.c. with #12-14 x 7/8in. HWH. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.			
System Type C(6):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.			
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime <sup>®</sup> Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.			
All General and System limitations apply.				
<b>Base Insulation Lay</b>	er (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>	
EnergyGuard <sup>™</sup> Poly Minimum 1.5" thicl	yiso Insulation x to Maximum 12" thickness.	N/A	N/A	
Top Insulation Laye	er	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>	
EnergyGuard <sup>™</sup> Polyiso Insulation		1:1.45 ft <sup>2</sup>		
Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.				
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.			
	with 2 blue taps.			

Duse Sheet.	with 2" side laps.
Ply Sheet: (Optional)	Ruberoid <sup>®</sup> Mop Smooth or Ruberoid <sup>®</sup> Mop Smooth 1.5 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. Or
	One or more plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Membrane:	Ruberoid <sup>®</sup> Mop Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.



Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-82.5 psf. (See General Limitation # 7)



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Membrane Type:	SBS			
Deck Type 2I:	Steel, Insulated			
Deck Description:	Minimum 22 gauge, type B, wide rib steel deck, Grade 33 secured to minimum 0.25 in. thick steel structural supports spaced at maximum 72 in. o.c. with 0.625 in. diameter puddle welds 6 in. o.c. The deck side laps are fastened 24 in. o.c. with #12-14 x 7/8in. HWH. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.			
System Type C(7):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.			
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof			
All General and Sys	stem limitations apply.			
		Fastener Density/ft <sup>2</sup>		
EnergyGuard <sup>™</sup> Polyiso Insulation Minimum 1.5" thick to Maximum 12" thickness.		N/A	N/A	
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>	
EnergyGuard™ Polyiso InsulationMinimum 2" thick1, 2, 3, 4, 5, 6, 7		1:2 ft <sup>2</sup>		
	insulation shall be mechanically attache . Please refer to Roofing Application St			
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.			
Ply Sheet: (Optional)	Ruberoid <sup>®</sup> 20 Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with manufacturer's instructions.			
Membrane:	Ruberoid <sup>®</sup> 30 Granule, Ruberoid 30 Plus Granule FR, Ruberoid <sup>®</sup> 30 Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.			
-	Optional on granular surfaced membra Chosen components must be applied ac application instructions.	-		
1.	Gravel or slag applied at 400 lbs. /sq. an of approved asphalt at 60 lbs. /sq.	nd 300 lbs. /sq. respectively in	n a flood coat	
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap She GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Sur of approved asphalt applied within the E	faced Cap Sheet adhered in a	t full mopping	

# Maximum Design Pressure:

-60 psf. (See General Limitation # 7)

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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 gauge, type B, wide rib steel deck, Grade 33 secured to minimum 0.25 in. thick steel structural supports spaced at maximum 72 in. o.c. with 0.625 in. diameter puddle welds 6 in. o.c. The deck side laps are fastened 24 in. o.c. with #12-14 x 7/8in. HWH. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.		
System Type C(8):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sy	stem limitations apply.		
Base Insulation Lay	Layer (Optional)Insulation Fasteners (Table 3)Fastener Density/ft2		
EnergyGuard <sup>™</sup> Pol Minimum 1.5" thic	yiso Insulation k to Maximum 12" thickness.	N/A	N/A
		Fastener Density/ft <sup>2</sup>	
EnergyGuard™ Polyiso InsulationMinimum 2" thick1, 2, 3, 4, 5, 6, 71:1.45			1:1.45 ft <sup>2</sup>
	insulation shall be mechanically attac e. Please refer to Roofing Application		
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.		
Ply Sheet: (Optional)	Ruberoid <sup>®</sup> 20 Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with manufacturer's instructions.		
Membrane:	Ruberoid <sup>®</sup> 30 Granule, Ruberoid 30 Plus Granule FR, Ruberoid <sup>®</sup> 30 Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.		
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's		
1.	application instructions. Gravel or slag applied at 400 lbs. /sq. of approved asphalt at 60 lbs. /sq.	and 300 lbs. /sq. respectively	in a flood coat
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap S GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-S of approved asphalt applied within the	Surfaced Cap Sheet adhered in	a full mopping
Maximum Design Pressure:	-75 psf. (See General Limitation # 7)	-	



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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
<b>Deck Description:</b>	Minimum 22 ga., 33 ksi.		
System Type C(9):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sys	stem limitations apply.		
<b>Base Insulation Lay</b>	rer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Poly Minimum 1.5" thick	yiso Insulation < to Maximum 12" thickness.	N/A	N/A
Top Insulation Laye		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Poly Minimum 1.5" thick		1, 2, 3, 4, 5, 6, 7	1:2 ft <sup>2</sup>
Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.			
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.		
Ply Sheet: (Optional)	Ruberoid <sup>®</sup> Mop Smooth or Ruberoid <sup>®</sup> Mop Smooth 1.5 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.		
Membrane:	Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.		
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.		
1.	Gravel or slag applied at 400 lbs. /sq. a of approved asphalt at 60 lbs. /sq.	nd 300 lbs. /sq. respectively	in a flood coat
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sh GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Su mopping of approved asphalt applied w lbs. /sq.	rfaced Cap Sheet adhered in	a full
Maximum Design Pressure:	-45 psf. (See General Limitation # 9)		



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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
<b>Deck Description:</b>	Minimum 22 ga., 33 ksi		
System Type C(10):	All layers of insulation are mechanica is adhered.	lly attached to the roof deck	. Membrane
	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime <sup>®</sup> Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Syste	em limitations apply.		
Base Insulation LayerInsulation FastenersFastener(Table 3)Density/ft²			Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso InsulationN/AMinimum 1.5" thick to Maximum 12" thickness.N/A			N/A
Note: Base layer insul	lation is Minimum 2 in. when top insu	lation layer is Minimum 2	l in.
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyis Minimum 1.5" thick	so Insulation	1, 2, 3, 4, 5, 6, 7	1:2 ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyis Minimum 2"thick	so Insulation	1, 2, 3, 4, 5, 6, 7	1:3.2 ft <sup>2</sup>
•	sulation shall be mechanically attache Please refer to Roofing Application St	• 9	

Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.
Ply Sheet:	One Ply of Ruberoid <sup>®</sup> 20 Smooth is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.
Membrane:	Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
Surfacing:	Chosen components must be applied according to the manufacturer's
-	Chosen components must be applied according to the manufacturer's application instructions. Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat



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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
<b>Deck Description:</b>	Minimum 22 ga., 33 ksi.		
System Type C(11):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sys	stem limitations apply.		
Base Insulation Lay		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
	k to Maximum 12" thickness.	N/A	N/A
Note: Base layer ins	ulation is Minimum 2 in. when top insu	lation layer is Minimum 2	in.
Top Insulation Lay		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso InsulationMinimum 1.5" thick1, 2, 3, 4, 5, 6, 71:2 ft²			1:2 ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation         1, 2, 3, 4, 5, 6, 7         1:3.2 ft <sup>2</sup>			
Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.			
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perf with 2" side laps.	forated Venting Base Sheet	loose laid dry
Ply Sheet:	One Ply of Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.		
Membrane:	Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR Ruberoid 30 Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.		
Surfacing:	Optional on granular surfaced membra Chosen components must be applied ac application instructions.		
1.	Gravel or slag applied at 400 lbs. /sq. and of approved asphalt at 60 lbs. /sq.	d 300 lbs. /sq. respectively i	n a flood coat
2			<b>C1</b>

2. GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

# Maximum Design Pressure:

-45 psf. (See General Limitation # 9)



Membrane Type:	SBS			
Deck Type 2I:	Steel, Insulated			
<b>Deck Description:</b>	Minimum 22 ga., 33 ksi.			
System Type C(12)	System Type C(12): All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.			
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof			
All General and Sy	vstem limitations apply.			
Base Insulation La		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>	
	lyiso Insulation ek to Maximum 12" thickness. Isulation is Minimum 2 in. when top insu	N/A lation layer is Minimum 2	N/A in.	
Top Insulation Lay		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>	
EnergyGuard <sup>™</sup> Po Minimum 1.5" thic	ek	1, 2, 3, 4, 5, 6, 7	1:2 ft <sup>2</sup>	
EnergyGuard <sup>™</sup> Po Minimum 2" thick		1, 2, 3, 4, 5, 6, 7	1:3.2 ft <sup>2</sup>	
	insulation shall be mechanically attache e. Please refer to Roofing Application St			
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perf with 2" side laps.	forated Venting Base Sheet	loose laid dry	
Ply Sheet:	Two plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply in a full mopping of approved asphalt ap 20-40 lbs. /sq. in accordance with the ma	plied within the EVT range		
Membrane:	Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS ( Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granu Plus Granule FR, Ruberoid <sup>®</sup> Mop Granu Granule FR is adhered in a full mopping EVT range and at a rate of 20-40 lbs. /sq instructions.	ule FR, Ruberoid <sup>®</sup> EnergyC le FRor Ruberoid <sup>®</sup> EnergyC of approved asphalt applied	Cap™ Mop Cap™ 30 I within the	
Surfacing:	Optional on granular surfaced membra Chosen components must be applied ac application instructions.			
1.	Gravel or slag applied at 400 lbs. /sq. an of approved asphalt at 60 lbs. /sq.	d 300 lbs. /sq. respectively i	in a flood coat	
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap She GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surf of approved asphalt applied within the E	faced Cap Sheet adhered in	a full mopping	
Maximum Design Pressure:	-45 psf. (See General Limitation # 9)			



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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 ga., 33 ksi		
System Type C(13)	All layers of insulation are mechanically adhered.	attached to the roof deck.	Membrane is
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof		
All General and Sy	vstem limitations apply.		
Base Insulation La	-	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Po Minimum 1.5" thic	lyiso Insulation ek to Maximum 12" thickness.	N/A	N/A
Top Insulation Lay		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
DensDeck <sup>®</sup> Prime Minimum 0.25" th	Roof Board, SECUROCK <sup>®</sup> Gypsum-Fib ick	er Roof Board 1, 2, 3, 4, 7, 8	1:4 ft <sup>2</sup>
e e	insulation shall be mechanically attache e. Please refer to Roofing Application St	• 0	
Base Sheet:	Two or three plies of GAFGLAS <sup>®</sup> Ply 4 adhered in a full mopping of approved a a rate of 20-40 lbs. /sq. in accordance with OR One or two plies of Ruberoid <sup>®</sup> Mop Smo Ruberoid <sup>®</sup> 20 Smooth adhered in a full r within the EVT range and at a rate of 20 manufacturer's instructions.	sphalt applied within the E ith the manufacturer's instru- poth 1.5, Ruberoid <sup>®</sup> Mop Pl nopping of approved aspha	VT range and at uctions. lus Smooth, ılt applied
Membrane:	Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> M Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 3 approved asphalt applied within the EV accordance with the manufacturer's inst	lop Plus Granule FR, Ruber 30 Granule FR adhered in a Γ range and at a rate of 20-4	roid <sup>®</sup> Mop full mopping of
Surfacing:	Optional on granular surfaced membra Chosen components must be applied ac application instructions.	· •	
1.	Gravel or slag applied at 400 lbs. /sq. an of approved asphalt at 60 lbs. /sq.	d 300 lbs. /sq. respectively	in a flood coat
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap She GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Sur of approved asphalt applied within the E	faced Cap Sheet adhered in	a full mopping
Maximum Design	45 mgf (Soo Compared Lineitation # 0)		
Pressure:	-45 psf. (See General Limitation # 9)		

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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 gauge, type B, wide rib steel deck, Grade 33 secured to minimum 0.25 in. thick steel structural supports 6 in. o.c. spaced at maximum 72 in. o.c. with Traxx/4, Traxx/5, Teks 4 or Teks 5 fasteners. The deck side laps are fastened 24 in. o.c. with Traxx/1 or Teks 1 Fasteners. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.		
System Type C(14):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, 1/2" Securock <sup>®</sup> Gypsum-Fiber Roof Boa		rd,
All General and Sys	tem limitations apply.		
<b>Base Insulation Lay</b>		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Poly Minimum 1.5" thick	viso Insulation x to Maximum 12" thickness.	N/A	N/A
(Table 3) Densi DensDeck <sup>®</sup> Prime Roof Board, SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board			Fastener Density/ft <sup>2</sup> 1:2 ft <sup>2</sup>
DensDeck <sup>®</sup> Prime R	DensDeck® Prime Roof Board, SECUROCK® Gypsum-Fiber Roof BoardMinimum 0.5" thick1, 2, 3, 4, 7, 81:1.6 ft²		
	nsulation shall be mechanically attached Please refer to Roofing Application Sta		
Base Sheet:	Two or three plies of GAFGLAS <sup>®</sup> Ply 4, adhered in a full mopping of approved as a rate of 20-40 lbs. /sq. in accordance wit OR One or two plies of Ruberoid <sup>®</sup> Mop Smo adhered in a full mopping of approved as a rate of 20-40 lbs. /sq. in accordance wit	sphalt applied within the EV th the manufacturer's instruc- both 1.5 or Ruberoid <sup>®</sup> Mop Pl sphalt applied within the EV th the manufacturer's instruc	T range and at tions. lus Smooth T range and at tions.
Membrane:	Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid 30 I Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> M Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 3 approved asphalt applied within the EVT accordance with the manufacturer's instr	op Plus Granule FR, Rubero 0 Granule FR adhered in a fu range and at a rate of 20-40	id <sup>®</sup> Mop 1ll mopping of

Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-60 psf. (See General Limitation # 7) for 1:2 ft <sup>2</sup> fastener density -82.5 psf. (See General Limitation # 7) for 1:1.6 ft <sup>2</sup> fastener density



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Membrane Type:	SBS			
Deck Type 2I:	Steel, Insulated			
Deck Description:	Minimum 22 gauge, Grade 80 or Minimum 20 gauge, Grade 33, type B, wide rib steel deck, secured to minimum 0.25 in. thick steel structural supports 6 in. o.c. spaced at maximum 72 in. o.c. with Traxx/4, Traxx/5, Teks 4 or Teks 5 fasteners. The deck side laps are fastened 24 in. o.c. with Traxx/1 or Teks 1 Fasteners. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>			
System Type C(15):	All layers of insulation are mechanically adhered.	attached to the roof deck. N	Membrane is	
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, 1 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof			
All General and Sys	tem limitations apply.			
<b>Base Insulation Lay</b>	Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/1			
EnergyGuard <sup>™</sup> Polyiso Insulation			N/A	
Top Insulation Laye	Top Insulation LayerInsulation FastenersFastener(Table 3)Density/f			
	DensDeck® Prime Roof Board, SECUROCK® Gypsum-Fiber Roof BoardDensky/reMinimum 0.5" thick1, 2, 3, 4, 7, 81:1.6 ft²			
Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.				
Base Sheet:	Two or three plies of GAFGLAS <sup>®</sup> Ply 4, adhered in a full mopping of approved as a rate of 20-40 lbs. /sq. in accordance with OR One or two plies of Ruberoid <sup>®</sup> Mop Smoo adhered in a full mopping of approved as	phalt applied within the EV h the manufacturer's instruc oth 1.5 or Ruberoid <sup>®</sup> Mop P	T range and at ctions. lus Smooth	

Membrane: Ruberoid<sup>®</sup> 30 Granule FR, Ruberoid<sup>®</sup> 30 Plus Granule FR, Ruberoid<sup>®</sup> Mop Plus Granule FR, Ruberoid<sup>®</sup> EnergyCap<sup>™</sup> Mop Plus Granule FR, Ruberoid<sup>®</sup> Mop Granule FR or Ruberoid<sup>®</sup> EnergyCap<sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.



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Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-90 psf. (See General Limitation # 7)



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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 gauge, Grade 80 or Minimum 20 gauge, Grade 33, type B, wide rib steel deck, secured to minimum 0.25 in. thick steel structural supports 6 in. o.c. spaced at maximum 72 in. o.c. with Traxx/4, Traxx/5, Teks 4 or Teks 5 fasteners and <sup>3</sup> / <sub>4</sub> " washers. The deck side laps are fastened 24 in. o.c. with Traxx/1 or Teks 1 fasteners and <sup>3</sup> / <sub>4</sub> " washers. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>		
System Type C(16):	All layers of insulation are mechanically adhered.	attached to the roof deck. M	embrane is
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, 1 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof		
All General and Sys	tem limitations apply.		
<b>Base Insulation Lay</b>		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso InsulationMinimum 1.5" thick to Maximum 12" thickness.N/AN/A			N/A
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
DensDeck® Prime Roof Board, SECUROCK® Gypsum-Fiber Roof BoardMinimum 0.5" thick1, 2, 3, 4, 7, 81:1.4			
			1:1.45 ft <sup>2</sup>
Minimum 0.5" thick Note: All layers of i		1, 2, 3, 4, 7, 8 I simultaneously using the f	fastener
Minimum 0.5" thick Note: All layers of i density listed above.	nsulation shall be mechanically attached	1, 2, 3, 4, 7, 8 I simultaneously using the f ndard RAS 117 for insulati Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS phalt applied within the EVT h the manufacturer's instruct oth 1.5 or Ruberoid <sup>®</sup> Mop Plu phalt applied within the EVT h the manufacturer's instruct Plus Granule FR, Ruberoid <sup>®</sup> op Plus Granule FR, Ruberoid	fastener fon <sup>®</sup> FlexPly <sup>™</sup> 6 <sup>°</sup> range and at ions. us Smooth <sup>°</sup> range and at ions. Mop Plus d <sup>®</sup> Mop



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# Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions. 1. Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq. 2. GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>TM</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

# Pressure:

-97.5 psf. (See General Limitation # 7)



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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 gauge, Grade 33, type B, wide rib steel deck, secured to minimum 0.25 in. thick steel structural supports 6 in. o.c. spaced at maximum 72 in. o.c. with #12 ICH Traxx/4, ICH Traxx/5, #12 HWH Teks 4 or HWH Teks 5. The deck side laps are fastened 24 in. o.c. with #10 HWH Teks 1 or #10 HWH Teks 3 Fasteners. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.		
System Type C(17):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sys	tem limitations apply.		
Insulation Layer	Insulation Fasteners Fastener (Table 3) Density/ft <sup>2</sup>		
EnergyGuard <sup>™</sup> Poly	viso Insulation		

Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Minimum 1.5" thick to Maximum 12" thickness.

Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.
Membrane:	Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-52.5 psf. (See General Limitation # 7)



1:2 ft<sup>2</sup>

1, 2, 3, 4, 5, 6, 7

Membrane Type:       SBS         Deck Type 21:       Steel, Insulated         Deck Description:       Minimum 22 gauge, Grade 33, type B, wide rib steel deck, secured to minimum 0.25 in. thick steel structural supports 6 in o.c. spaced at maximum 72 in. o.c. with #12 ICH Traxx/4, ICH Traxx/5, #12 HWH Teks 4 or HWH Teks 5. The deck side laps are fastened 24 in. o.c. with #10 HWH Teks 1 or #10 HWH Teks 3. The deck side laps are fastened 24 in. o.c. with #10 HWH Teks 1 or #10 HWH Teks 3. The deck side laps are fastened 24 in.o.c. with #10 HWH Teks 1 or #10 HWH Teks 3. The deck side laps are fastened 24 in.o.c. with #10 HWH Teks 1 or #10 HWH Teks 3. The deck side laps are fastened 24 in.o.c. with #10 HWH Teks 1 or #10 HWH Teks 3. The deck side laps are fastened 24 in.o.c. with #10 HWH Teks 1 or #10 HWH Teks 3. The deck side laps are fastened 24 in.o.c. with #10 HWH Teks 1 or #10 HWH Teks 3. The deck side laps are fastened 24 in.o.c. with #10 HWH Teks 1 or #10 HWH Teks 3. The deck side laps are fastened 24 in.o.c. with #10 HWH Teks 1 or #10 HWH Teks 3. The deck side (Optional)         1/2" SECUROCK <sup>#</sup> Gypsum-Fiber Roof Board, DensDeck <sup>#</sup> Prime Roof Board, I/2" SECUROCK <sup>#</sup> Gypsum-Fiber Roof Board loose laid on steel deck.         All General and System limitations apply.         Insulation Layer       Insulation Fasteners         Fastener (Table 3)       Density/ft <sup>2</sup> EnergyGuard <sup>™</sup> Polyiso Insulation       1, 2, 3, 4, 5, 6, 7       1: 2 ft <sup>2</sup> Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.         Base Sheet:       One pl	Mambuana Trunas	CDC		
Deck Description:       Minimum 22 gauge, Grade 33, type B, wide rib steel deck, secured to minimum 0.25 in. thick steel structural supports 6 in. o.c. spaced at maximum 72 in. o.c. with #12 ICH Traxx/4, ICH Traxx/5, #12 HWH Teks 4 or HWH Teks 5. The deck side laps are fastened 24 in. o.c. with #10 HWH Teks 1 or #10 HWH Teks 3 Fasteners. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.         System Type C(18):       All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.         Thermal Barrier:       Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, IC/9 SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.         All General and System limitations apply.       Insulation Fasteners       Fastener (Table 3)         Insulation Layer       Insulation Fasteners       Fastener (Table 3)         Minimum 1.5" thick to Maximum 12" thickness.       1, 2, 3, 4, 5, 6, 7       1: 2 ft <sup>2</sup> Note:       All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.         Base Sheet:       One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.         Ply Sheet:       One ply of GAFGLAS <sup>®</sup> By 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. OR         Membrane:       Ruberoid <sup>®</sup> Mop Finaule, Intee FIV, Rubero				
<ul> <li>0.25 in. thick steel structural supports 6 in. o.e. spaced at maximum 72 in. o.e. with #12 ICH Traxx/4, ICH Traxx/5, #12 HWH Teks 4 or HWH Teks 5. The deck side laps are fastened 24 in. o.e. with #10 HWH Teks 1 or #10 HWH Teks 1 or #10 HWH Teks 5. See Evidence Submitted Table.</li> <li>System Type C(18): All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.</li> <li>Thermal Barrier: Minimum 1/4" DensDeck<sup>®</sup> Roof Board, DensDeck<sup>®</sup> Prime Roof Board, 1/2" SECUROCK<sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.</li> <li>All General and System limitations apply.</li> <li>Insulation Layer Insulation fasteners Fastener (Table 3)</li> <li>EnergyGuard<sup>10</sup> Polyiso Insulation</li> <li>Minimum 1.5" thick to Maximum 12" thickness.</li> <li>1, 2, 3, 4, 5, 6, 7</li> <li>12 ft<sup>2</sup></li> <li>Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.</li> <li>Base Sheet: One ply of GAFGLAS<sup>®</sup> Stratavent<sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.</li> <li>Ply Sheet: One ply of GAFGLAS<sup>®</sup> Stratavent<sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.</li> <li>OR Two or three plies of GAFGLAS<sup>®</sup> Ply 4, Tri-Ply<sup>®</sup> Ply 4 or GAFGLAS<sup>®</sup> FlexPly<sup>160</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. OR Two or three plies of GAFGLAS<sup>®</sup> Ply 4, Tri-Ply<sup>®</sup> Ply 4 or GAFGLAS<sup>®</sup> FlexPly<sup>160</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.</li> <li>OR Tuberoid<sup>®</sup> Mog Granule, Ruberoid<sup>®</sup> Mog Plus Granule FR, Ruberoid<sup>®</sup> Mog Plus Granule, Ruberoid<sup>®</sup> Mog Plus Granule, Ruberoid<sup>®</sup> Mog Plus Granule, Ruberoid<sup>®</sup> Mog Plus Granule, Ruberoid<sup>®</sup> Mog Plus</li></ul>	• •			
adhered.         Thermal Barrier:       Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.         All General and System limitations apply.       Insulation Fasteners       Fastener         Insulation Layer       Insulation Fasteners       Fastener         (Table 3)       Density/ft <sup>2</sup> EnergyGuard <sup>™</sup> Polyiso Insulation       Minimum 1.5" thick to Maximum 12" thickness.       1, 2, 3, 4, 5, 6, 7       1:2 ft <sup>2</sup> Note: All layers of insulation shall be mechanically attached simultancously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.         Base Sheet:       One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.         Ply Sheet:       One ply of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.         OR       Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> SB Granule, Inter Flex Ply <sup>™</sup> 6         Membrane:       Ruberoid <sup>®</sup> Mop Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR in a full mopping of approved asphalt applied within the E	Deck Description:	0.25 in. thick steel structural supports #12 ICH Traxx/4, ICH Traxx/5, #12 H laps are fastened 24 in. o.c. with #10 H <b>This Tested Assembly has been anal</b>	6 in. o.c. spaced at maximum WH Teks 4 or HWH Teks 5. IWH Teks 1 or #10 HWH Tek	72 in. o.c. with The deck side xs 3 Fasteners.
(Optional)       1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.         All General and System limitations apply.       Insulation Fasteners (Table 3)       Fastener Densityff <sup>2</sup> EnergyGuard <sup>™</sup> Polyiso Insulation       1, 2, 3, 4, 5, 6, 7       1:2 ft <sup>2</sup> Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.       1:2 ft <sup>2</sup> Base Sheet:       One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.       Ply Sheet:         Ply Sheet:       One ply of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. OR         Membrane:       Ruberoid <sup>®</sup> 0G Granule, Ruberoid <sup>®</sup> 10 Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> Day Dis Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Inter Flex PRF, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule	System Type C(18):	-	ly attached to the roof deck.	Membrane is
Insulation Layer       Insulation Fasteners (Table 3)       Fastener Density/ft <sup>2</sup> EnergyGuard <sup>™</sup> Polyiso Insulation Minimum 1.5" thick to Maximum 12" thickness.       1, 2, 3, 4, 5, 6, 7       1:2 ft <sup>2</sup> Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.       Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.         Base Sheet:       One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.         Ply Sheet:       One ply of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.         OR       Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.         Membrane:       Ruberoid <sup>®</sup> Mop Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule FR, sa dhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.         Surfacing:				
Image: Control of the second seco	All General and Sys	tem limitations apply.		
Minimum 1.5" thick to Maximum 12" thickness.       1, 2, 3, 4, 5, 6, 7       1:2 ft <sup>2</sup> Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.         Base Sheet:       One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.         Ply Sheet:       One ply of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.         OR       Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.         Membrane:       Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>30</sup> Ohus Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule, Tri-Ply <sup>®</sup> SBS Granule, Inter Flex PRF, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule R is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.         Surfacing:       Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's instructions.         1.       Gravel or slag applicat at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.	·			
density listed above.       Please refer to Roofing Application Standard RAS 117 for insulation attachment.         Base Sheet:       One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry with 2" side laps.         Ply Sheet:       One ply of Ruberoid® 20 Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. OR         Two or three plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.         Membrane:       Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® Mop Plus Granule, Ruberoid® Mop Plus Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop Plus Granule, Ruberoid® Mop Plus Granule FR , Ruberoid® EnergyCap™ Mop Plus Granule FR, Ruberoid® Mop Plus Granule FR, ruberoid® EnergyCap™ 30 Granule FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.         Surfacing:       Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.         1.       Gravel or slag applied at 400 lbs./sq.       Ga SHGLAS® HeregyCap SH Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or GAFGLAS® EnergyCap™ Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.         2.       GAFGLAS®			1, 2, 3, 4, 5, 6, 7	1:2 ft <sup>2</sup>
Ply Sheet:with 2 <sup>in</sup> side laps.Ply Sheet:One ply of Ruberoid* 20 Smooth, Ruberoid* Mop Smooth 1.5 or Ruberoid* Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. OR Two or three plies of GAFGLAS* Ply 4, Tri-Ply* Ply 4 or GAFGLAS* FlexPly™ 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.Membrane:Ruberoid* 30 Granule, Ruberoid* 30 Granule FR, Ruberoid 30 Plus Granule FR, Ruberoid* Mop Granule, Tri-Ply* SBS Granule, Intec Flex PRF, Ruberoid* Mop Plus Granule FR, Ruberoid* Mop Granule FR, Ruberoid* EnergyCap™ Mop Plus Granule FR, Ruberoid* Mop Granule FR or Ruberoid* EnergyCap™ 30 Granule FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.Surfacing:Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.1.Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.2.GAFGLAS* EnergyCap™ Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.	density listed above.			
Ply Sheet:       One ply of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.         OR       Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.         Membrane:       Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.         Surfacing:       Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.         1.       Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.         2.       GAFGLAS <sup>®</sup> EnergyCap <sup>TM</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.	Base Sheet:	- ·	erforated Venting Base Sheet l	loose laid dry
<ul> <li>OR Two or three plies of GAFGLAS<sup>®</sup> Ply 4, Tri-Ply<sup>®</sup> Ply 4 or GAFGLAS<sup>®</sup> FlexPly<sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.</li> <li>Membrane: Ruberoid<sup>®</sup> 30 Granule, Ruberoid<sup>®</sup> 30 Granule FR, Ruberoid 30 Plus Granule FR, Ruberoid<sup>®</sup> Mop Granule, Tri-Ply<sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid<sup>®</sup> Mop Plus Granule, Ruberoid<sup>®</sup> Mop Plus Granule FR, Ruberoid<sup>®</sup> EnergyCap<sup>TM</sup> 30 Granule FR, Ruberoid<sup>®</sup> Mop Granule FR or Ruberoid<sup>®</sup> EnergyCap<sup>TM</sup> 30 Granule FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.</li> <li>Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.</li> <li>Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.</li> <li>GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>TM</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.</li> </ul>	Ply Sheet:	with 2" side laps. One ply of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's		
<ul> <li>Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.</li> <li>Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.</li> <li>GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.</li> </ul>	Membrane:	OR Two or three plies of GAFGLAS <sup>®</sup> Ply adhered in a full mopping of approved a rate of 20-40 lbs. /sq. in accordance v Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 G Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Plus Granule, Ruberoid <sup>®</sup> Mop Plus Gra Plus Granule FR, Ruberoid <sup>®</sup> Mop Gran Granule FR is adhered in a full moppin EVT range and at a rate of 20-40 lbs./s	asphalt applied within the EV with the manufacturer's instru- Granule FR, Ruberoid 30 Plus & Granule, Intec Flex PRF, Ru anule FR, Ruberoid <sup>®</sup> Energy nule FR or Ruberoid <sup>®</sup> Energy ng of approved asphalt applied	T range and at ctions. Granule FR, beroid <sup>®</sup> Mop Cap <sup>TM</sup> Mop Cap <sup>TM</sup> 30 I within the
<ol> <li>application instructions.</li> <li>Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.</li> <li>GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.</li> </ol>	Surfacing:		branes; required for smooth	membranes.
<ol> <li>Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.</li> <li>GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.</li> </ol>	-	Chosen components must be applied	-	
<ul> <li>of approved asphalt at 60 lbs./sq.</li> <li>GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.</li> </ul>				~ .
<ol> <li>GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.</li> </ol>	1.		and 300 lbs./sq. respectively in	n a flood coat
	2. Maximum Design	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap S GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-S mopping of approved asphalt applied	Surfaced Cap Sheet adhered in	a full

# Maximum Design Pressure:

-52.5 psf. (See General Limitation # 7)

MIAMI:DADE COUNTY APPROVED NOA No.: 24-1008.05 Expiration Date: 11/06/25 Approval Date: 11/07/24 Page 55 of 88

Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 gauge, Grade 33, type B, wide rib steel deck, secured to minimum 0.25 in. thick steel structural supports 6 in. o.c. spaced at maximum 72 in. o.c. with #12 ICH Traxx/4, ICH Traxx/5, #12 HWH Teks 4 or HWH Teks 5. The deck side laps are fastened 24 in. o.c. with #10 HWH Teks 1 or #10 HWH Teks 3 Fasteners. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.		
System Type C(19):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.		
Thermal Barrier: (Optional) All General and Sys	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Poly Minimum 3" thick	viso Insulation to Maximum 12" thickness.	1, 2, 3, 4, 5, 6, 7	1:2 ft <sup>2</sup>
•	insulation shall be mechanically attache . Please refer to Roofing Application Sta	• 0	
Base Sheet:	One ply of GAEGLAS <sup>®</sup> Stratavent <sup>®</sup> Perf	orated Venting Base Sheet 1	loose laid dry
Ply Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps. One ply of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's		
Membrane:	instructions. OR Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.		
Surfacing:	Optional on granular surfaced membr Chosen components must be applied a		
1.	application instructions. Gravel or slag applied at 400 lbs./sq. an of approved asphalt at 60 lbs./sq.		
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap She GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Sur mopping of approved asphalt applied w lbs./sq.	rfaced Cap Sheet adhered in	a full
Maximum Design Pressure:	-60 psf. (See General Limitation # 7)		
i ressure.	(0, p)		NOA No - 24 100



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Type 21. Deck Description:	Minimum 22 gauge, Grade 33		
-			
System Type C(20):	All layers of insulation are mechanically att adhered.	tached to the roof deck.	Membrane is
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, De 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Bo		
All General and Sys	stem limitations apply.		
Insulation Layer		nsulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Poly Minimum 3" thick	yiso Insulation to Maximum 12" thickness.	1, 2, 3, 4, 5, 6, 7	1:4 ft <sup>2</sup>
	insulation shall be mechanically attached s . Please refer to Roofing Application Stand		
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perfora with 2" side laps.	ated Venting Base Sheet	loose laid dry
Ply Sheet:	One ply of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions. OR Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's flexPly <sup>™</sup> 6		
Membrane:	Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR is adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.		
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.		
1.	Gravel or slag applied at 400 lbs. /sq. and a of approved asphalt at 60 lbs. /sq.	300 lbs. /sq. respectively	in a flood coat
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfac mopping of approved asphalt applied with lbs. /sq.	ced Cap Sheet adhered in	a full
Maximum Design Pressure:	-45 psf. (See General Limitation # 9)		

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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 gauge, Grade 33, type B, wide rib steel deck, secured to minimum 0.25 in. thick steel structural supports 6 in. o.c. spaced at maximum 72 in. o.c. with #12 ICH Traxx/4, ICH Traxx/5, #12 HWH Teks 4 or HWH Teks 5. The deck side laps are fastened 24 in. o.c. with #10 HWH Teks 1 or #10 HWH Teks 3 Fasteners. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>		
System Type C(21):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and System limitations apply.			
Insulation Layer	I	nsulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard™ Polyiso Insulation1, 2, 3, 4, 5, 6, 71:1.6 ft²Minimum 3" thick to Maximum 12" thickness.1, 2, 3, 4, 5, 6, 71:1.6 ft²			1:1.6 ft <sup>2</sup>
Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment			

attachment.

Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.
Ply Sheet:	One ply of Ruberoid <sup>®</sup> 20 Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with the manufacturer's instructions.
Membrane:	Ruberoid <sup>®</sup> Mop Granule or Ruberoid <sup>®</sup> Mop Plus Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. Or GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
Surfacing:	Chosen components must be applied according to the manufacturer's
	Chosen components must be applied according to the manufacturer's application instructions. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat



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Membrane Type:	SBS/APP		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 gauge, Grade 33, type B, wide rib steel deck, secured to minimum 0.25 in. thick steel structural supports 6 in. o.c. spaced at maximum 72 in. o.c. with #12 ICH Traxx/4, ICH Traxx/5, #12 HWH Teks 4 or HWH Teks 5. The deck side laps are fastened 24 in. o.c. with #10 HWH Teks 1 or #10 HWH Teks 3 Fasteners. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.		
System Type C(22):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sys	tem limitations apply.		
<b>Base Insulation Lay</b>	Base Insulation Layer Insulation Fasteners Fastener (Table 3) Density/ft <sup>2</sup>		
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso InsulationMinimum 1.5" thick to Maximum 12" thickness.N/A			N/A
Top Insulation Layer		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
SECUROCK® Gypsum-Fiber Roof BoardMinimum 0.375" thick1, 2, 3, 4, 7		1, 2, 3, 4, 7	1:1.33 ft <sup>2</sup>
Note: All layers of insulation shall be mechanically attached simultaneously using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.			
Base Ply:	One ply of Ruberoid <sup>®</sup> HW Smooth or Ruberoid <sup>®</sup> HW 25 Smooth torch-applied in accordance with the manufacturer's instructions.		
Ply Sheet: (Optional)	One ply of Ruberoid <sup>®</sup> HW Smooth or Ruberoid <sup>®</sup> HW 25 Smooth torch-applied in accordance with the manufacturer's instructions.		

Membrane:One or more plies of Ruberoid® HW Smooth, Ruberoid® HW Granule, Ruberoid®<br/>HW Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR,<br/>Ruberoid® EnergyCap™ HW Plus Granule FR torch applied in accordance with the<br/>manufacturer's instructions.<br/>Or<br/>One or more plies of Ruberoid® Torch Smooth, Tri-Ply® APP Smooth, Ruberoid®<br/>Torch Granule, Tri-Ply® APP Granule, Ruberoid® Torch Plus Granule FR, or<br/>Ruberoid® EnergyCap™ Torch Granule FR torch applied in accordance with the

manufacturer's instructions.

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# Surfacing:Optional on granular surfaced membranes; required for smooth membranes.<br/>Chosen components must be applied according to the manufacturer's<br/>application instructions.1.Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat<br/>of approved asphalt at 60 lbs. /sq.2.GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or<br/>GAFGLAS<sup>®</sup> EnergyCap™ Mineral-Surfaced Cap Sheet adhered in a full mopping<br/>of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.Maximum Design<br/>Pressure:-67.5 psf. (See General Limitation # 7)



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Membrane Type:	SBS/APP		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 gauge, Grade 33, type H 0.25 in. thick steel structural supports #12 ICH Traxx/4, ICH Traxx/5, #12 laps are fastened 24 in. o.c. with #10 <b>This Tested Assembly has been and</b> <b>Evidence Submitted Table.</b>	s 6 in. o.c. spaced at maxin HWH Teks 4 or HWH Te HWH Teks 1 or #10 HW	mum 72 in. o.c. with ks 5. The deck side H Teks 3 Fasteners.
System Type C(23):	All layers of insulation are mechanically attached to the roof deck. Membrane is adhered.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sys	tem limitations apply.		
Base Insulation Lay EnergyGuard <sup>™</sup> Poly	er ⁄iso Insulation, EnergyGuard <sup>™</sup> RA I	Insulation Fastener (Table 3) Polviso Insulation	rs Fastener Density/ft <sup>2</sup>
	to Maximum 12" thickness.	N/A	N/A
Top Insulation Laye		Insulation Fastener (Table 3)	rs Fastener Density/ft <sup>2</sup>
SECUROCK® Gypsum-Fiber Roof BoardMinimum 0.375" thick1, 2, 3, 4, 7		1:1.33 ft <sup>2</sup>	
e e e e e e e e e e e e e e e e e e e	nsulation shall be mechanically atta Please refer to Roofing Application	v	8
Base Ply:	One ply of Ruberoid <sup>®</sup> Torch Smooth accordance with the manufacturer's in	•	torch-applied in
Ply Sheet: (Optional)	One ply of Ruberoid <sup>®</sup> Torch Smooth or Tri-Ply <sup>®</sup> APP Smooth torch-applied in accordance with the manufacturer's instructions.		
Membrane:	One or more plies of Ruberoid <sup>®</sup> Torch Smooth, Tri-Ply <sup>®</sup> APP Smooth, Ruberoid <sup>®</sup> Torch Granule,, Tri-Ply <sup>®</sup> APP Granule, Ruberoid <sup>®</sup> Torch Plus Granule FR, or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Torch Granule FR torch applied in accordance with the manufacturer's instructions.		
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.		
1.	Gravel or slag applied at 400 lbs. /sc of approved asphalt at 60 lbs. /sq.	q. and 300 lbs. /sq. respect	ively in a flood coat
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.		
Maximum Design Pressure:	-67.5 psf. (See General Limitation # 7	7)	
MIAMI-DADE COUNTY APPROVED	-07.5 psi. (See General Lininauoli #		NOA No.: 24-100 Expiration Date: 11/0 Approval Date: 11/0

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Membrane Type:	APP/SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	Minimum 18-22 ga. steel Type B Grade 33 steel decking secured to minimum 1/4" steel supports spaced 6 ft. o.c. with Buildex Traxx/4 or 5 fasteners spaced 6" o.c. (at the bottom flute), and with side laps attached with Buildex Traxx/1 fasteners spaced at max. of 30" o.c. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>
System Type C(24):	All layers of insulation simultaneously fastened, perforated base sheet loose laid over the insulation with additional membranes adhered.

# All General and System limitations apply.

Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
Insulation Layer	Ins	sulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Polyiso Insulation			
Minimum 2" thick 1, 2 & 6 1:1.45 ft			1:1.45 ft <sup>2</sup>

Note: All layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

<b>Base Sheet:</b>	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry, with 2" side laps.
Ply Sheet:	One or more plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4, GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6, GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet, Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Plus Smooth or Ruberoid <sup>®</sup> Mop Smooth 1.5 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.
Membrane:	Maximum two plies of Ruberoid <sup>®</sup> Torch Smooth, Tri-Ply <sup>®</sup> APP Smooth, Ruberoid <sup>®</sup> Torch Granule,, Tri-Ply <sup>®</sup> APP Granule, Ruberoid <sup>®</sup> Torch Plus Granule FR, or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Torch Granule FR torch applied in accordance with the manufacturer's instructions. Or Maximum two plies of Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule,
	Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR applied with an approved hot air welder in accordance with the manufacturer's instructions. Or
	(Required to only use with Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth,
	<b>Ruberoid<sup>®</sup> Mop Plus Smooth or Ruberoid<sup>®</sup> Mop Smooth 1.5 ply sheet(s).)</b> GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or
	GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet 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 on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-67.5 psf. (See General Limitation #7.)



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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
<b>Deck Description:</b>	Minimum 22 ga. steel, 33 ksi		
System Type C(25):	All layers of insulation simultaneously fastened, perforated base sheet loose laid over the insulation with additional membranes adhered.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and System limitations apply.			
<b>Insulation</b> Layer	Insulation Fasteners Fastener		

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation		
Minimum 1.5" thick	1, 2, 3, 4, 5, 6, 7	1:2 ft <sup>2</sup>

Note: All layers of insulation and optional thermal barrier (when present) shall be mechanically attached using the fastener density listed above. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.
Ply Sheet:	One ply of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied in accordance with the manufacturer's instructions. Or Two or three plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied in accordance with manufacturer's instructions.
Membrane:	One or more plies of Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied in accordance with the manufacturer's instructions. Or <b>(Required to only use with Ruberoid<sup>®</sup> 20 Smooth, Ruberoid<sup>®</sup> Mop Smooth, Ruberoid<sup>®</sup> Mop Plus Smooth or Ruberoid<sup>®</sup> Mop Smooth 1.5 ply sheet(s).) GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>TM</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.</b>

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Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	<ul> <li>Minimum 22 gauge, type B, wide rib s</li> <li>in. thick steel structural supports space</li> <li>diameter puddle welds 6 in. o.c. The o</li> <li>14 x 7/8in. HWH.</li> <li>This Tested Assembly has been anal</li> <li>Submitted Table</li> </ul>	ed at maximum 72 in. o.c. wit deck side laps are fastened 24	h 0.625 in. in. o.c. with #12-
System Type C(26):	All layers of insulation are mechanical adhered.	lly attached to the roof deck.	Membrane is
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sys	tem limitations apply.		
Base Insulation Lay		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Poly Minimum 1.5" thick	to Maximum 12" thickness.	N/A	N/A
Top Insulation Laye		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Poly Minimum 2" thick	iso Insulation	1, 2, 3, 4, 5, 6, 7	1:1.45 ft <sup>2</sup>
· ·	nsulation shall be mechanically attache refer to Roofing Application Standard	• •	•
Base Sheet:	One ply of GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Perforated Venting Base Sheet loose laid dry with 2" side laps.		ose laid dry with
Ply Sheet:	Ruberoid <sup>®</sup> Mop Smooth or Ruberoid <sup>®</sup> Mop Smooth 1.5 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. Or One or more plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4 or GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.		
Membrane:	Ruberoid <sup>®</sup> Mop Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Granule FR, adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.		
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.		
1.	Gravel or slag applied at 400 lbs./sq. ar of approved asphalt at 60 lbs./sq.	nd 300 lbs./sq. respectively in	a flood coat
2.	GAFGLAS <sup>®</sup> Mineral Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.		
Maximum Design Pressure:	-82.5 psf. (See General Limitation # 7)		
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Membrane Type:	APP/SBS Heat-Weld
Deck Type 2I:	Steel, Insulated
<b>Deck Description:</b>	Minimum 18-22 ga. steel
System Type D(1):	Insulation and Base sheet simultaneously attached
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

All General and System limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> RA Polyiso Insulation		
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board	(Table 0)	Density/it
Minimum 0.5" thick	N/A	N/A

Note: Insulation 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 optional thermal barrier (when present) shall be mechanically attached using the fastener density listed below. See base sheet below for fasteners and density. Please refer to **Roofing Application Standard RAS 117 for insulation attachment.** 

Base Sheet:	GAFGLAS <sup>®</sup> #75 Base Sheet, Tri-Ply <sup>®</sup> #75 Base Sheet, GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet, GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Nailable Venting Base Sheet, Ruberoid <sup>®</sup> HW 25 Smooth, Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth applied over the loose laid insulation with 2" side laps fastened as specified below:
	Drill $\text{Tec}^{\text{TM}} #12$ Fastener or Drill- $\text{Tec}^{\text{TM}} #14$ Fastener and Drill- $\text{Tec}^{\text{TM}} 3$ " Steel Plate or Drill- $\text{Tec}^{\text{TM}}$ AccuTrac <sup>®</sup> Flat Plates are installed through the base sheet and insulation in 4 rows 12" on center. One row is in the 2" side lap. The other two rows are equally spaced approximately 12" o.c. in the field of the sheet.
Ply Sheet: (Optional)	One or more plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4, GAFGLAS <sup>®</sup> FlexPly <sup><math>^{\text{M}}</math></sup> 6 or GAFGLAS <sup>®</sup> #80 Ultima <sup><math>^{\text{M}}</math></sup> Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions.
Membrane:	One or more plies of Ruberoid <sup>®</sup> Torch Smooth, Tri-Ply <sup>®</sup> APP Smooth, Ruberoid <sup>®</sup> Torch Granule,, Tri-Ply <sup>®</sup> APP Granule, Ruberoid <sup>®</sup> Torch Plus Granule FR, or torch applied in accordance with the manufacturer's instructions. Or One or more plies of Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR torch applied or applied with an approved hot air welder in accordance with the manufacturer's instructions.

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Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)



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Membrane Type:	SBS/SBS
Deck Type 2I:	Steel, Insulated
<b>Deck Description:</b>	Minimum 18-22 ga. steel
System Type D(2):	Insulation and Base sheet simultaneously attached
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

# All General and System limitations apply.

One or more layers of any of the following insulations.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> RA Polyiso Insulation		
Minimum 1.5 " thick	N/A	N/A
Top Insulation Layer	<b>Insulation Fasteners</b>	Fastener
	(Table 3)	Density/ft <sup>2</sup>
SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board		
Minimum 0.5" thick	N/A	N/A

Note: Insulation 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 optional thermal barrier (when present) shall be mechanically attached using the fastener density listed below. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	GAFGLAS <sup>®</sup> #75 Base Sheet, Tri-Ply <sup>®</sup> #75 Base Sheet, GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet, GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Nailable Venting Base Sheet, Ruberoid <sup>®</sup> HW 25 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth applied over the loose laid insulation with 2" side laps fastened as specified below:
	Drill-Tec <sup>TM</sup> #12 Fastener or Drill-Tec <sup>TM</sup> #14 Fastener and Drill-Tec <sup>TM</sup> 3" Steel Plate or Drill-Tec <sup>TM</sup> AccuTrac <sup>®</sup> Flat Plates are installed through the base sheet and insulation in 3 rows 12" on center. One row is in the 2" side lap. The other two rows are equally spaced approximately 12" o.c. in the field of the sheet.
Ply Sheet: (Optional)	One or more plies of GAFGLAS <sup>®</sup> Ply 4, Tri-Ply <sup>®</sup> Ply 4, GAFGLAS <sup>®</sup> FlexPly <sup>™</sup> 6 or GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied with accordance to manufacturer's instructions.

Membrane:	One or more plies of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule,Intec Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. in accordance with the manufacturer's instructions. Or One or more plies of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule,Intec
	Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered with Matrix 102 SBS Membrane Adhesive at an application rate of 1-2 gal./sq. in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-45 psf. (See General Limitation #9)



Membrane Type:	SBS Cold Applied	
Deck Type 2I:	Steel, Insulated	
Deck Description:	Minimum 18, 20, 22 ga. type B Grade 33, wide rib, 1.5 in. deep new steel deck secured to minimum 0.25 in. thick structural supports spaced 6' o.c. at maximum with Teks 4, Teks 5, ICH Traxx/4 or ICH Traxx/5 fasteners spaced maximum 6 in. o.c. along each support. Deck side laps are fastened with Stitch Teks 1 or ICH Traxx/1 fasteners spaced 24 in. o.c. at maximum. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>	
System Type D(3):	Insulation is loose laid; base sheet is mechanically fastened through insulation to the roof deck.	
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.	
All General and System Limitations shall apply.		
Insulation Layer	Insulation Fasteners (Table 3) Fastener Density/ft <sup>2</sup>	
EnergyGuard <sup>™</sup> Polyiso Insulation		

Note: Insulation 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 optional thermal barrier (when present) shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

N/A

Base Sheet:	GAFGLAS <sup>®</sup> #80 Ultima <sup>™</sup> Base Sheet, GAFGLAS <sup>®</sup> Stratavent <sup>®</sup> Nailable Venting Base Sheet, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth mechanically attached through the insulation to the steel deck with Drill-Tec <sup>™</sup> #12 Fasteners or Drill-Tec <sup>™</sup> #14 Fasteners and Drill-Tec <sup>™</sup> AccuTrac <sup>®</sup> Flat Plates, Drill-Tec <sup>™</sup> AccuTrac <sup>®</sup> Recessed Plates, Drill-Tec <sup>™</sup> 3" Standard Steel Plates or Drill-Tec <sup>™</sup> 3" Steel Plates spaced 6 in. o.c. within the minimum 3.5 in. wide side laps and 12 in. o.c. in the field of the sheet in three staggered rows. Base sheet side laps and fastener rows are perpendicular to the direction of the steel deck ribbing.
Ply Sheet:	One or more plies of Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered to the base sheet with minimum 4 in. wide laps with Matrix <sup>™</sup> 102 SBS Membrane Adhesive applied at total rate of 2 gal./sq. The base ply/adhesive/base sheet combination is permitted to cure overnight.

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Minimum 1.5" thick

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N/A

Membrane:	One or more plies of Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> 30 Granule FR adhered to the base ply with Matrix 102 SBS Membrane adhesive applied at a total rate of 2 gal./sq. The side laps are minimum 3.75 in. wide and sealed with minimum 3.75 in. wide heat welds positioned on the outer edge of the laps. The end laps are minimum 6 in wide and sealed with Matrix 102 SBS Membrane Adhesive applied at a total rate of 2 gal./sq. applied in accordance with the manufacturer's instructions
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-82.5 psf. (See General Limitation #7)



Membrane Type: SBS Heat-Weld

**Deck Type 2I:** Steel

**Deck Description:** Minimum 22 ga. type B, wide rib steel deck, Grade 33 secured to 0.25 in. (6.4 mm) thick structural supports spaced at 6' o.c. using Traxx/5 screws spaced at 6 in o.c. and with side laps secured with Traxx/1 screws spaced at 24 in. o.c. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(4): Insulation is loose laid; preliminary attachment to deck.

Minimum 1/4" DensDeck<sup>®</sup> Roof Board, DensDeck<sup>®</sup> Prime Roof Board, **Thermal Barrier:** 1/2" SECUROCK<sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck. (Optional)

All General and System limitations apply.

One or more layers of the following insulations. Insulation Laver

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Polyiso Insulation		
Minimum 1.5" thick	N/A	N/A

Note: Insulation 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, optional thermal barrier (when present) and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing **Application Standard RAS 117 for insulation attachment.** 

Base Ply:	One of the following Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth fastened to the deck with Drill-Tec <sup>™</sup> #12 Fasteners, Drill-Tec <sup>™</sup> AccuTrac <sup>®</sup> Flat Plates, Drill-Tec <sup>™</sup> AccuTrac <sup>®</sup> Recessed Plates or Drill- Tec <sup>™</sup> 3" Standard Steel Plates spaced 6 in o.c. through the minimum 3.25 in wide side laps.
Membrane:	One or more plies of Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR torched adhered or applied with an approved hot air welder with minimum 3 in wide laps. in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

#### **Maximum Design** Pressure:

-82.5 (See General Limitation #7)



Membrane Type: SBS Heat-Weld

Deck Type 2I: Steel

Deck Description: Minimum 22 ga. type B, wide rib steel deck, grade 80 or minimum 20 ga., type B, wide rib steel deck, grade 33 secured to 0.25 in. (6.4 mm) thick structural supports spaced at 6' o.c. using Traxx/5 screws spaced at 6 in o.c. and with side laps secured with Traxx/1 screws spaced at 24 in. o.c.
 This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(5): Insulation is loose laid; preliminary attachment to deck.

**Thermal Barrier:** Minimum 1/4" DensDeck<sup>®</sup> Roof Board, DensDeck<sup>®</sup> Prime Roof Board, (Optional) 1/2" SECUROCK<sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

All General and System limitations apply.

One or more layers of the following insulations. Insulation Layer

Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Polyiso Insulation		
Minimum 1.5" thick	N/A	N/A

Note: Insulation 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, optional thermal barrier (when present) and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Ply:	One of the following Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth fastened to the deck with Drill-Tec <sup>™</sup> #12 Fasteners, Drill-Tec <sup>™</sup> AccuTrac <sup>®</sup> Flat Plates, Drill-Tec <sup>™</sup> AccuTrac <sup>®</sup> Recessed Plates or Drill- Tec <sup>™</sup> 3" Standard Steel Plates spaced 6 in o.c. through the minimum 3.25 in wide side laps.
Membrane:	One or more plies of Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR torched adhered or applied with an approved hot air welder with minimum 3 in wide laps. in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer' application instructions.
1.	Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of Approved asphalt at 60 lbs./sq.
2.	
2.	GAFGLAS <sup>®</sup> Mineral Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral Surfaced Cap Sheet 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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Membrane Type:	SBS Heat-Weld
Deck Type 2I:	Steel, Insulated
Deck Description:	Minimum 22 ga. type B, wide rib steel deck, Grade 33 was secured to 0.25 in. (6.4 mm) thick structural supports spaced at 6' o.c. using Traxx/5 screws spaced at 6 in o.c. and with side laps secured with Traxx/1 screws spaced at 24 in. o.c. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>
System Type D(6): Insulation is loose laid; preliminary attachment to deck.	

Thermal Barrier:Minimum 1/4" DensDeck<sup>®</sup> Roof Board, DensDeck<sup>®</sup> Prime Roof Board,(Optional)1/2" SECUROCK<sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

### All General and System limitations apply.

One or more layers of the following insulations.Insulation FastenersFastenerInsulation LayerInsulation FastenersFastener(Table 3)Density/ft²EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso InsulationN/A

Note: Insulation 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, optional thermal barrier (when present) and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Ply:	One ply of the following Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Plus Smooth or Ruberoid <sup>®</sup> Mop Smooth 1.5 fastened to the deck with Drill-Tec <sup>™</sup> AccuTrac <sup>®</sup> Flat Plates and Drill-Tec <sup>™</sup> 3" Standard Steel Plates with Drill-Tec <sup>™</sup> #12 Fasteners spaced 12 in. o.c. through the minimum 3.5 in. wide side laps.
Membrane:	One or more plies of Ruberoid <sup>®</sup> HW Smooth, Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> SBS Heat-Weld Plus FR torched adhered or applied with an approved hot air welder with minimum 3 in wide laps in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design	
Pressure:	-52.5 (See General Limitation # 7)

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Membrane Type:	SBS	
Deck Type 2I:	Steel, Insulated	
Deck Description:	Minimum 22 ga. type B, wide rib steel deck, Grade 33 secured to 0.25 in. (6.4 mm) thick structural supports spaced at 6' o.c. using Traxx/5 screws spaced at 6 in. o.c. and with side laps secured with Traxx/1 screws spaced at 24 in. o.c. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>	
System Type D(7):	Insulation is loose laid; preliminary attachment to deck.	
Thermal Barrier: (Optional)	: Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime <sup>®</sup> Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.	
All General and System limitations apply.		
One or more layers of the following insulations.Insulation FastenersFastenerInsulation Layer(Table 3)Density/ft²		
EnergyGuard <sup>™</sup> Po Minimum 1.5″ th		

Note: Insulation 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, optional thermal barrier (when present) and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Ply:	One ply of Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth fastened to the deck with Drill-Tec <sup>™</sup> #12 Fasteners and Drill-Tec <sup>™</sup> 3" Standard Steel Plates or Drill-Tec <sup>™</sup> ASAP S3 spaced 18 in o.c. through the minimum 3.25 in. wide side laps and in two staggered rows in the field of the sheet.
Ply Sheet:	Ruberoid <sup>®</sup> 20 Smooth, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq. applied in accordance with manufacturer's instructions.
Membrane:	One or more plies of Ruberoid <sup>®</sup> 30 Granule, Ruberoid <sup>®</sup> 30 Granule FR, Ruberoid <sup>®</sup> 30 Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule, Tri-Ply <sup>®</sup> SBS Granule, Intec Flex PRF, Ruberoid <sup>®</sup> Mop Smooth, Ruberoid <sup>®</sup> Mop Smooth 1.5, Ruberoid <sup>®</sup> Mop Plus Smooth, Ruberoid <sup>®</sup> Mop Plus Granule, Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> 30 Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-25 lbs./sq. applied in accordance with the manufacturer's instructions.



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# Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.

- 1. Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
- 2. GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

### **Maximum Design**

**Pressure:** -82.5 (See General Limitation # 7)



Membrane Type:	SBS/SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	Minimum 22 ga., 33 ksi.
System Type D(8):	Insulation is loose laid; preliminary attachment to deck.
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

### All General and System limitations apply.

One or more layers of the following insulations. **Base Insulation Layer** 

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Poly	yiso Insulation	
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Structodek <sup>®</sup> High Density Roofing Fiberboard Roof Insula	tion, EnergyGuard <sup>™</sup> HD	Polyiso
Insulation or EnergyGuard <sup>™</sup> HD Plus Polyiso Insulation		
Minimum 0.5" thick	N/A	N/A
DensDeck <sup>®</sup> Roof Board		
Minimum 0.25" thick	N/A	N/A

Note: Insulation 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, optional thermal barrier (when present) and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	One ply of Ruberoid <sup>®</sup> Mop Smooth 1.5 fastened to the deck with Drill-Tec <sup>TM</sup> #12 or #14 Fasteners and Drill-Tec <sup>TM</sup> 2 in. Barbed Plates located off-centered in the lap by 0.5 in. towards the edge of the sheet and spaced maximum 18 in. o.c. within the 4 in. wide side laps. The Minimum 4 in. wide side laps are spaced maximum 35.625" o.c. and are torched or hot air welded.
Membrane:	One or more plies of Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> Mop Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> Mop Plus Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied in accordance with the manufacturer's instructions. OR
	Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR or torch adhered with minimum 3 in. wide laps in accordance with the manufacturer's instructions.



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# Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.

- 1. Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
- GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

#### Maximum Design Pressure:

-45 (See General Limitation # 9)



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Membrane Type:	SBS/SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	Minimum 22 ga., 33 ksi.
System Type D(9):	Insulation is loose laid; preliminary attachment to deck.
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

All General and System limitations apply.

One or more layers of the following insulations. **Base Insulation Layer** 

Dase insulation Dayer		
	(Table 3)	Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Po	lyiso Insulation	
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	<b>Insulation Fasteners</b>	Fastener
	(Table 3)	Density/ft <sup>2</sup>
Structodek <sup>®</sup> High Density Roofing Fiberboard Roof Insul	ation, EnergyGuard <sup>™</sup> HD 1	Polyiso
Insulation, EnergyGuard <sup>™</sup> HD Plus Polyiso Insulation.		
Minimum 0.5" thick	N/A	N/A
DensDeck <sup>®</sup> Roof Board		
Minimum 0.25" thick	N/A	N/A

**Insulation Fasteners** 

Fastener

Note: Insulation 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, optional thermal barrier (when present) and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	One ply of Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth fastened to the deck with Drill-Tec <sup>TM</sup> Batten Bars centered in the 4 in. wide side laps and Drill-Tec <sup>TM</sup> #12 or #14 Fasteners spaced maximum 18 in. o.c. along the batten bar. The Minimum 4 in. wide side laps are spaced maximum 35.625" o.c. and are torched or hot air welded.
Membrane:	One or more plies of Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR or Ruberoid <sup>®</sup> Mop Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied in accordance with the manufacturer's instructions. OR
	Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR or torch adhered with minimum 3 in. wide laps in accordance with the manufacturer's instructions.



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# Surfacing: Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.

- 1. Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
- GAFGLAS<sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply<sup>®</sup> BUR Granule Cap Sheet or GAFGLAS<sup>®</sup> EnergyCap<sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.

#### Maximum Design Pressure:

-45 (See General Limitation # 9)



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Membrane Type:	SBS/SBS
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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga. type B, wide rib steel deck, Grade 33 secured to 0.25 in. (6.4 mm) thick structural supports spaced at 6' o.c. using Traxx/4, Traxx/5, Teks 4 or Teks 5 screws spaced at 6 in. o.c. and with side laps secured with Traxx/1 screws spaced at 24 in. o.c.
 This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.

System Type D(10): Insulation is loose laid; preliminary attachment to deck.

Thermal Barrier:	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board,
(Optional)	1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

All General and System limitations apply.

One or more layers of the following insulations.		
Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Pol	yiso Insulation	
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	<b>Insulation Fasteners</b>	Fastener
	(Table 3)	Density/ft <sup>2</sup>
Structodek <sup>®</sup> High Density Roofing Fiberboard Roof Insula	tion, EnergyGuard <sup>™</sup> HD I	Polyiso
Insulation, EnergyGuard <sup>™</sup> HD Plus Polyiso Insulation.		
Minimum 0.5" thick	N/A	N/A
DensDeck <sup>®</sup> Roof Board		
Minimum 0.25" thick	N/A	N/A

Note: Insulation 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, optional thermal barrier (when present) and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet:	One ply of Ruberoid <sup>®</sup> Mop Smooth 1.5 or Ruberoid <sup>®</sup> Mop Plus Smooth fastened to the deck with Drill-Tec <sup>™</sup> Batten Bars centered in the 4 in. wide side laps and Drill-Tec <sup>™</sup> XHD Fasteners as specified below. The Minimum 4 in. wide side laps are spaced maximum 35.625" o.c. and are torched or hot air welded.
Base Sheet Attachment:	Fasteners spaced maximum 12 in. o.c. along the batten bar for a <i>Maximum Design Pressure: -67.5 psf. (General Limitation #7)</i>
	Fasteners spaced maximum 18 in. o.c. along the batten bar for a

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



Membrane:	One or more plies of Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR or Ruberoid <sup>®</sup> Mop Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied in accordance with the manufacturer's instructions. OR Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule,
	Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>™</sup> HW Plus Granule FR torch adhered with minimum 3 in. wide laps in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design	
Pressure:	See Base Sheet Attachment.



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Membrane Type:	SBS/SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	Minimum 22 ga. type B, wide rib steel deck, Grade 33 secured to 0.25 in. (6.4 mm) thick structural supports spaced at 6' o.c. using Traxx/4, Traxx/5, Teks 4 or Teks 5 screws spaced at 6 in. o.c. and with side laps secured with Traxx/1 screws spaced at 24 in. o.c. <b>This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.</b>

System Type D(11):Insulation is loose laid; preliminary attachment to deck.

<b>Thermal Barrier:</b>	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime Roof Board,
(Optional)	1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.

### All General and System limitations apply.

One or more layers of the following insulations. **Insulation Laver Insulation Fasteners** Fastener (Table 3) Density/ft<sup>2</sup> EnergyGuard<sup>™</sup> Polyiso Insulation, EnergyGuard<sup>™</sup> RA Polyiso Insulation Minimum 1.5" thick N/A N/A **Top Insulation Layer (Optional) Insulation Fasteners** Fastener (Table 3) Density/ft<sup>2</sup> Structodek<sup>®</sup> High Density Roofing Fiberboard Roof Insulation, **EnergyGuard<sup>™</sup> HD Polyiso Insulation** Minimum 0.5" thick N/A N/A **DensDeck**<sup>®</sup> Roof Board Minimum 0.25" thick N/A N/A

Note: Insulation 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, optional thermal barrier (when present) and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Ruberoid<sup>®</sup> Mop Smooth 1.5 or Ruberoid<sup>®</sup> Mop Plus Smooth fastened to the deck with Drill-Tec<sup>™</sup> 2 in. Barbed Plates and Drill-Tec<sup>™</sup> XHD Fasteners located off-centered in the lap by 0.5 in. towards the edge of the sheet and spaced maximum 12 in. o.c. within the minimum 4 in. wide side laps. The Minimum 4 in. wide side laps are spaced maximum 35.625" o.c. and are torched or hot air welded.



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Membrane:	One or more plies of Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR or Ruberoid <sup>®</sup> Mop Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied in accordance with the manufacturer's instructions. Or Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> HW Plus Granule FR torch adhered with minimum 3 in. wide laps in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-52.5 (See General Limitation # 7)



Membrane Type:	SBS/SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 ga. type B, wide rib steel deck, Grade 33 secured to 0.25 in. (6.4 mm) thick structural supports spaced at 6' o.c. using Traxx/4, Traxx/5, Teks 4 or Teks 5 screws spaced at 6 in. o.c. and with side laps secured with Traxx/1 screws spaced at 24 in. o.c. This Tested Assembly has been analyzed for allowable deck stress. See Evidence Submitted Table.		
System Type D(12):	Insulation is loose laid; preliminary attachment to deck.		
Thermal Barrier: (Optional)	Minimum 1/4" DensDeck <sup>®</sup> Roof Board, DensDeck <sup>®</sup> Prime <sup>®</sup> Roof Board, 1/2" SECUROCK <sup>®</sup> Gypsum-Fiber Roof Board loose laid on steel deck.		
All General and Sys	tem limitations apply.		
One or more layers of <b>Insulation Layer</b>	f the following insulations.	Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
EnergyGuard <sup>™</sup> Polyiso Insulation, EnergyGuard <sup>™</sup> RA Polyiso Insulation Minimum 1.5" thick N/A N/A		N/A	
Top Insulation Layer (Optional)		Insulation Fasteners (Table 3)	Fastener Density/ft <sup>2</sup>
Structodek <sup>®</sup> High D EnergyGuard <sup>™</sup> HD Minimum 0.5″ thic		tion, N/A	N/A
DensDeck <sup>®</sup> Roof Boa Minimum 0.25" thi		N/A	N/A
	ll have preliminary attachment, prior to n rate of two fasteners per board for in		

note: Insulation 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, optional thermal barrier (when present) and base sheet shall be simultaneously fastened. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of Ruberoid<sup>®</sup> Mop Smooth 1.5 or Ruberoid<sup>®</sup> Mop Plus Smooth fastened to the deck with Drill-Tec<sup>™</sup> 2 3/8 in. Barbed XHD Plates and Drill-Tec<sup>™</sup> XHD Fasteners located off-centered in the lap by 0.25 in. towards the edge of the sheet and spaced maximum 12 in. o.c. within the minimum 5 in. wide side laps. The Minimum 5 in. wide side laps are spaced maximum 35.625" o.c. and are torched or hot air welded.



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Membrane:	One or more plies of Ruberoid <sup>®</sup> Mop Plus Granule FR, Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> Mop Plus Granule FR or Ruberoid <sup>®</sup> Mop Granule FR adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. applied in accordance with the manufacturer's instructions. Or Ruberoid <sup>®</sup> HW Granule, Ruberoid <sup>®</sup> HW Granule FR, Ruberoid <sup>®</sup> HW Plus Granule, Ruberoid <sup>®</sup> HW Plus Granule FR or Ruberoid <sup>®</sup> EnergyCap <sup>TM</sup> HW Plus Granule FR torch adhered with minimum 3 in. wide laps in accordance with the manufacturer's instructions.
Surfacing:	Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to the manufacturer's application instructions.
1.	Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat of approved asphalt at 60 lbs. /sq.
2.	GAFGLAS <sup>®</sup> Mineral-Surfaced Cap Sheet, Tri-Ply <sup>®</sup> BUR Granule Cap Sheet or GAFGLAS <sup>®</sup> EnergyCap <sup>™</sup> Mineral-Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs. /sq.
Maximum Design Pressure:	-67.5 (See General Limitation # 7)



## **STEEL DECK SYSTEM LIMITATIONS:**

- If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect or Registered Roof Consultant.
- 2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gage attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.

## **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.
- Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

# END OF THIS ACCEPTANCE



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