

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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786)315-2590 F (786) 315-2599

www.miamidade.gov/economy

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® 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.

This NOA renews and revises NOA No. 24-1008.05 and consists of pages 1 through 88.

The submitted documentation was reviewed by Jorge L. Acebo.

11/20/25

MIAMI-DADE COUNTY
APPROVED

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ROOFING SYSTEM APPROVAL

<u>Category:</u> Roofing

Sub-Category: Modified Bitumen

Material:APP/SBSDeck Type:SteelMaximum Design Pressure:-120 psf.

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

Product Dimensions Specification Description GAFGLAS® Ply 4 39.37" ASTM D2178 Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat. Tri-Ply® Ply 4 39.37" ASTM D2178 Smooth surfaced asphaltic ply sheet reinforced with a fiberglass mat. GAFGLAS® FlexPly™ 6 39.37" ASTM D2178 Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat. GAFGLAS® #75Base 39.37" ASTM D4601 Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat. Sheet (1 meter) Wide 39.37" ASTM D4601 Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat. GAFGLAS® #80 Ultima™ 39.37" ASTM D4601 Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat. GAFGLAS® Stratavent® Base Sheet (1 meter) Wide Smooth asphaltic base or base/ply sheet reinforced with a fiberglass mat. GAFGLAS® Stratavent® AFGLAS® Stratavent® Sheet 39.37" ASTM D4897 Smooth asphaltic base or base/ply sheet reinforced with fiberglass mat. GAFGLAS® Stratavent® Sheet 39.37" ASTM D4897 Smooth surfaced asphaltic ply sheet reinforced with fiberglass mat. GAFGLAS® Mineral-Surfaced Cap Sheet (1 meter) Wide Smooth surfa			Test	Product
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Tri-Ply® BUR Granule Cap Sheet Cap Sheet GAFGLAS® GAFGLAS® Cap Sheet EnergyCap™ Mineral- Surfaced Cap Sheet Ruberoid® HW 25 Smooth Tri-Ply® BUR Granule 39.37" ASTM D3909 Granule surfaced asphaltic cap sheet reinforced with a fiberglass mat. Granule surfaced asphaltic cap sheet reinforced with fiberglass mat. Cap sheet is factory coated with EnergyCote™. Smooth surfaced torch applied SBS base or ply sheet reinforced with a			ASTM D3909	
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Surfaced Cap Sheet Surfaced Cap Sheet Sheet is factory coated with EnergyCote TM . Smooth surfaced torch applied SBS (1 meter) Wide Smooth surfaced torch applied SBS base or ply sheet reinforced with a			ASTM D3909	
Ruberoid® HW 25 Smooth 39.37" ASTM D6163 Smooth surfaced torch applied SBS base or ply sheet reinforced with a		(1 meter) Wide		•
Ruberoid® HW 25 Smooth 39.37" ASTM D6163 Smooth surfaced torch applied SBS base or ply sheet reinforced with a	Surfaced Cap Sheet			· · · · · · · · · · · · · · · · · · ·
(1 meter) Wide base or ply sheet reinforced with a	D 1 :1® 1111 25 G	20.27	4 CTD 4 D (1 (2	
	Ruberoid HW 25 Smooth		ASTM D6163	
tiheralass mat		(1 meter) Wide		
Hoeigiass mat.				fiberglass mat.
Ruberoid® HW Smooth 39.37" ASTM D6164 Smooth surfaced torch applied SBS	Ruberoid® HW Smooth	39.37"	ASTM D6164	Smooth surfaced torch applied SBS
(1 meter) Wide base or ply sheet reinforced with a		(1 meter) Wide		
polyester mat.				* *
	D1 : 1® HWV C 1	20.272	ACTM DC1C4	•
11	Kuperoia - HW Granule		AS1M D6164	
(1 meter) Wide cap sheet reinforced with a polyester mat.		(1 meter) wide		



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		Test	Product
Product	Dimensions	Specification	Description
Ruberoid® HW Granule	39.37"	ASTM D6164	Fire retardant granule surfaced heat-
FR	(1 meter) Wide		welded SBS cap sheet reinforced with a
			polyester mat.
Ruberoid® HW Plus	39.37"	ASTM D6164	Granule surfaced torch applied SBS
Granule	(1 meter) Wide		cap sheet reinforced with a polyester mat.
Ruberoid® HW Plus	39.37"	ASTM D6164	Fire retardant granule surfaced torch
Granule FR	(1 meter) Wide		applied SBS cap sheet reinforced with
Ruberoid® EnergyCap TM	39.37"	ASTM D6164	a polyester mat. Fire retardant granule surfaced heat-
HW Plus Granule FR	(1 meter) Wide	ASTWI D0104	welded SBS cap sheet reinforced with a
TIW Trus Granute TR	(1 meter) wide		polyester mat. Cap sheet is factory
			coated with EnergyCote TM .
Ruberoid® Torch Smooth	39.37"	ASTM D6222	Smooth surfaced torch applied APP
	(1 meter) Wide		base or ply sheet reinforced with a
			polyester mat.
Tri-Ply® APP Smooth	39.37"	ASTM D6222	Smooth surfaced torch applied APP
	(1 meter) Wide		cap, base or ply sheet reinforced with a
Ruberoid® Torch Granule	39.37"	ASTM D6222	polyester mat
Rubeloid Tolcii Gianule	(1 meter) Wide	ASTWI D0222	Granule surfaced torch applied APP cap sheet reinforced with a polyester
	(1 meter) wide		mat.
Tri-Ply® APP Granule	39.37"	ASTM D6222	Granule surfaced torch applied APP
•	(1 meter) Wide		cap sheet reinforced with a polyester
			mat.
Ruberoid® Torch Plus	39.37"	ASTM D6222	Fire retardant granule surfaced torch
Granule FR	(1 meter) Wide		applied APP cap sheet reinforced with
Ruberoid [®] EnergyCap [™]	39.37"	ASTM D6222	a polyester mat.
Torch Granule FR	(1 meter) Wide	ASTM D0222	Fire retardant granule surfaced torch applied APP cap sheet reinforced with
Total Granule TR	(1 meter) wide		a polyester mat. Cap sheet is factory
			coated with EnergyCote TM .
Ruberoid® 20 Smooth	39.37"	ASTM D6163	SBS polymer-modified asphalt base or
	(1 meter) Wide		ply sheet reinforced with a fiberglass
- 1 14® - 0 - 0			mat.
Ruberoid® 30 Granule	39.37"	ASTM D6163	Granule surfaced mop applied SBS cap
Ruberoid® 30 Granule FR	(1 meter) Wide 39.37"	ASTM D6163	sheet reinforced with a fiberglass mat. Fire retardant granule surfaced mop
Kubelolu 30 Glallule I'K	(1 meter) Wide	ASTM D0103	applied SBS cap sheet reinforced with
	(1 meter) wide		fiberglass mat.
Ruberoid® 30 Plus	39.37"	ASTM D6163	Fire retardant granule surfaced mop
Granule FR	(1 meter) Wide		applied SBS cap sheet reinforced with
			fiberglass mat.
Ruberoid® Mop Granule	39.37"	ASTM D6164	Granule surfaced mop applied SBS cap
in the state of th	(1 meter) Wide		sheet reinforced with a polyester mat.
Tri-Ply® SBS Granule	39.37"	ASTM D6164	Granule surfaced mop applied SBS cap
	(1 meter) Wide		sheet reinforced with a polyester mat.



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		Test	Product
Product	Dimensions	Specification	Description
Intec Flex PRF	39.37"	ASTM D6164	Granule surfaced mop applied SBS cap
	(1 meter) Wide		sheet reinforced with a polyester mat.
Ruberoid® Mop Smooth	39.37"	ASTM D6164	Smooth surfaced mop applied SBS
	(1 meter) Wide		base or ply sheet reinforced with a
			polyester mat.
Ruberoid® Mop Smooth	39.37"	ASTM D6164	Smooth surfaced mop applied SBS
1.5	(1 meter) Wide		base or ply sheet reinforced with a
D 1 :1® M D1	20.25%	A CEN (D (1 ()	polyester mat.
Ruberoid® Mop Plus	39.37"	ASTM D6164	Smooth surfaced mop applied SBS
Smooth	(1 meter) Wide		base or ply sheet reinforced with a
Ruberoid® Mop Plus	39.37"	ASTM D6164	polyester mat. Granule surfaced mop applied SBS cap
Granule	(1 meter) Wide	ASTM D0104	sheet reinforced with a polyester mat.
Ruberoid® Mop Plus	39.37"	ASTM D6164	Fire retardant granule surfaced mop
Granule FR	(1 meter) Wide	7151111 20101	applied SBS cap sheet reinforced with
2100000	(1 1110001) // 1000		a polyester mat.
Ruberoid® EnergyCap TM	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
			coated with EnergyCote TM .
Ruberoid® Mop Granule	39.37"	ASTM D6164	Fire retardant granule surfaced mop
FR	(1 meter) Wide		applied SBS cap sheet reinforced with
			a polyester mat.
Ruberoid® EnergyCap TM	39.37"	ASTM D6163	Fire retardant granule surfaced mop
30 Granule FR	(1 meter) Wide		applied SBS cap sheet reinforced with
			a fiberglass mat. Cap sheet is factory
Matrix [™] 102 SBS	2 5 0 5 5	ASTM D3019	coated with EnergyCote TM . Fiber reinforced rubberized cold-
Membrane Adhesive	3, 5 or 55 Gallons	ASTM D3019	applied adhesive for modified bitumen
wichioranc Aunesive	Ganons		roof systems.
			1001 by blottis.

APPROVED INSULATIONS:

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



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APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
DensDeck® Prime® Roof Board	Gypsum board	Georgia-Pacific Gypsum LLC
SECUROCK® Gypsum-Fiber Roof Board	Gypsum board	USG Corporation
Structodek® High Density Fiber Board Roof Insulation	High Density Fiber Board	Blue Ridge Fiber Board, Inc.

APPROVED FASTENERS:

THITKO	ED PASIENERS.	TABLE 3		
Fastener	Product	Product		Manufacturer
Number	Name	Description	Dimensions	(With Current NOA)
1.	Drill-Tec [™] #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 [™] #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 [™] ASAP 3S	Drill-Tec [™] #12 Fastener with Drill-Tec [™] 3" Standard Steel Plate.	See Components	GAF
5.	Drill-Tec [™] AccuTrac [®] Flat Plate	A2-SS aluminized steel plate for use with Drill-Tec [™] fasteners.	3" Square; .017" Thick	GAF
6.	Drill-Tec [™] AccuTrac [®] Recessed Plate	Galvalume [®] steel plate with recess for use with Drill-Tec [™] fasteners.	3" Square; .017" Thick.	GAF
7.	Drill-Tec [™] 3" Steel Plate	Round Galvalume [®] steel stress plate with reinforcing ribs and recessed for use with Drill-Tec [™] fasteners.	3" Round	GAF
8.	Drill-Tec [™] 3" Standard Steel Plate	Galvalume [®] coated steel stress plate for use with approved Drill-Tec [™] fasteners.	3" Round	GAF



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APPROVED FASTENERS:

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

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	<u>Date</u>
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	Description	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	09/24/25
OL ELE	R1306	UL 790	10/17/25
IRT-ARCON, Inc.	04-0041	TAS-114	01/26/04
ner meeti, me.	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
Timity ERD	G46160.02.15-2D-1	ASTM D6163	02/09/16
	SC10195.10.15	TAS 114	10/16/15
	SC10680.05.16	ASTM D6163	05/10/16
	SC13105.03.17-R1	ASTM D6163 ASTM D6164	03/23/17
PRI Construction Materials	GAF-122-02-01	TAS 139	05/07/06
Technologies LLC	GAF-122-02-01 GAF-238-02-01	ASTM D1970	03/03/10
reclinologies LLC	GAF-436-02-01	ASTM D1976 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
PRI Construction Materials	GAF-436-02-05	TAS-114	03/05/14
Technologies LLC	GAF-436-02-08	TAS-114	03/05/14
reclinologies LLC	GAF-436-02-09	TAS-114	03/05/14
	376T0140	ASTM D6164	08/18/21
	376T0140	ASTM D6164 ASTM D6163	01/26/22
	376T0141	ASTM D6103 ASTM D6222	08/23/21
	376T0143	ASTM D6222 ASTM D6222	08/26/21
	376T0144 376T0220	ASTM D6222 ASTM D6164	08/26/21 03/08/22
		ASTM D6164 ASTM D6164	
	376T0221		01/17/22
	376T0222	ASTM D6222	01/18/22
	376T0227	ASTM D4897	12/20/21
	376T0228	ASTM D4897	12/20/21
	376T0229	ASTM D4601	12/20/21



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EVIDENCE SUBMITTED: (CONTINUED)

Test Agency	Test Identifier	Description	Date
	376T0230	ASTM D6222	03/24/22
	376T0240	ASTM D4601	12/21/21
	376T0272	ASTM D3909	02/03/22
	376T0273	ASTM D6222	05/04/22
	376T0274	ASTM D6222	05/04/22
	376T0275	ASTM D2178	01/31/22
	376T0480	ASTM D6163	04/12/24
	376T0481	ASTM D6164	01/07/24
	376T0482	ASTM D6164	01/07/24
	376T0483	ASTM D6164	07/12/24
	376T0486	ASTM D6164	04/12/24
	824T0047	ASTM D6163	06/30/22
	824T0051	ASTM D6164	06/09/22
NEMO ETC, LLC	4Q-GAF-19-SSMBB-02.A	ASTM D6163	04/08/19
	4q-GAF-22-SSMBB-01.A	ASTM D6164	04/22/23
	4S-GAF-18-001.01.19-1	ASTM D2178	01/02/19
	4S-GAF-18-001.03.19.A- R1	ASTM D6222	03/13/19
	4S-GAF-18-001.11.18	ASTM D6163	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

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.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

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

asphalt.

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

All General and System limitations apply.

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

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation

Minimum 2" thick 1, 2, & 6 1:1.45 ft²

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) Fensity/ft²

SECUROCK® Gypsum-Fiber Roof Board, DensDeck® Prime® 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 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™] 6, GAFGLAS[®]

#75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth or Ruberoid® 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: One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly[™] 6, (Optional) GAFGLAS[®] #80 Ultima[™] Base Sheet, Ruberoid[®] 20 Smooth, Ruberoid[®] Mop

GAFGLAS[®] #80 Ultima[™] Base Sheet, Ruberoid[®] 20 Smooth, Ruberoid[®] Mop Smooth, Ruberoid[®] Mop Plus Smooth or Ruberoid[®] 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.



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Membrane:

One or more plies of Ruberoid® Torch Smooth, Tri-Ply® APP Smooth, Ruberoid® Torch Granule, Tri-Ply® APP Granule, Ruberoid® Torch Plus Granule FR, or Ruberoid® EnergyCap™ Torch Granule FR torch applied in accordance with the manufacturer's instructions.

OR

Ruberoid® 20 Smooth, Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid[®] 30 Plus Granule FR Ruberoid[®] Mop Granule, Tri-Ply[®] SBS Granule, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus Granule, Ruberoid® Mop Plus Granule FR, Ruberoid® EnergyCapTM Mop Plus Granule FR, Ruberoid® Mop Granule FR or Ruberoid[®] EnergyCapTM 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.

One or more plies of Ruberoid® HW 25 Smooth, Ruberoid® HW Smooth, Ruberoid® HW Granule, Ruberoid® HW Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR or Ruberoid® EnergyCap™ 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.
- GAFGLAS® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or 2. GAFGLAS® EnergyCapTM 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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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.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

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

asphalt.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation		
Minimum 1.5" thick	1, 2, 3, 6, 7	1:1.33 ft ²

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 ²
SECUROCK® Gypsum-Fiber Roof Board, DensDeck®	Prime Roof Board	
Minimum 1/3" thick	N/A	N/A

Note: Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly^{TM} 6.

GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20 Smooth, Ruberoid® Mop 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.

Ply Sheet: (Required when Mineral Surfaced Cap Sheets are used.)

(Optional) One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly^{$^{\text{TM}}$} 6,

GAFGLAS® #80 Ultima™ Base Sheet, Ruberoid® 20 Smooth Ruberoid® Mop 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.



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Membrane:

One or more plies of Ruberoid® 20 Smooth, Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule FR, Ruberoid® Mop Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus Granule, Ruberoid® Mop Plus Granule FR, 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 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 Ruberoid® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth or Ruberoid® Mop Smooth 1.5 ply sheet(s).) GAFGLAS® 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.

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® 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.

Maximum Design

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



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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga. steel, 33 ksi

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

asphalt.

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

All General and System limitations apply.

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

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) Density/ft 2 EnergyGuard $^{\text{\tiny TM}}$ Polyiso Insulation, EnergyGuard $^{\text{\tiny TM}}$ RA Polyiso Insulation N/A N/A

Note: Top layer of insulation shall be adhered with approved asphalt within the EVT range and at a rate of 20-40 lbs./100 ft². Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry

with 2" side laps.

Ply Sheet: (Required when Mineral Surfaced Cap Sheets are used.)

(Optional) One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6,

GAFGLAS[®] #80 Ultima[™] Base Sheet, Ruberoid[®] 20 Smooth Ruberoid[®] Mop 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.



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Membrane:

One or more plies of Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule FR, Ruberoid® Mop Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid[®] Mop Plus Granule, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR, Ruberoid[®] Mop Granule FR or Ruberoid® EnergyCapTM 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.

(Required to only use with Ruberoid® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth or Ruberoid® Mop Smooth 1.5 ply sheet(s).) GAFGLAS® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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.

- Gravel or slag applied at 400 lbs. /sq. and 300 lbs. /sq. respectively in a flood coat 1. of approved asphalt at 60 lbs./sq.
- GAFGLAS® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or 2. GAFGLAS® EnergyCapTM 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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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga. steel, 33 ksi

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

asphalt.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation		
Minimum 1.5" thick	1, 2, 3, 4, 5, 6, 7	1:2 ft ²
Enougy Cuard TM Dalvice Insulation		
EnergyGuard [™] Polyiso Insulation		
Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:3.2 ft ²

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 ²
Structodek® High Density Roofing Fiberboard Minimum 1/2" thick	N/A	N/A
DensDeck® Prime Roof Board, SECUROCK® Gypsum-F	iber 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[®] 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.

OR

One or two plies of 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.

Membrane: Ruberoid® Mop Plus Granule FR, Ruberoid® Mop Granule FR, Ruberoid® 30

Granule FR, Ruberoid[®] 30 Plus Granule FR or Ruberoid[®] EnergyCap[™] 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.



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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® 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.

Maximum Design

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



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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.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

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

asphalt.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA	Polyiso Insulation	
Minimum 1.5" thick	1, 2, 3, 4, 5, 6, 7	1:1.33 ft ²

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 ²
Structodek® High Density Roofing Fiberboard	,	·
Minimum 1/2" thick	N/A	N/A
DensDeck® Prime Roof Board, SECUROCK® Gypsum-I	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[®] 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.

OR

One or two plies of 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.

Membrane: Ruberoid® Mop Plus Granule FR, Ruberoid® Mop Granule FR, Ruberoid® 30

Granule FR, Ruberoid[®] 30 Plus Granule FR or Ruberoid[®] EnergyCapTM 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.



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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® 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.

Maximum Design

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



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

All General and System limitations apply.

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

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 ²
Structodek® High Density Roofing Fiberboard		
Minimum 1/2" thick	N/A	N/A
DensDeck® Prime Roof Board, SECUROCK® Gypsum-F	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[®] 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.

OR

One or two plies of 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.

Membrane: Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCap™ Mop Plus Granule FR,

Ruberoid® Mop Granule FR, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus

Granule FR or Ruberoid® EnergyCap $^{\text{TM}}$ 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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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® 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.

Maximum Design

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



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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., 33 ksi.

System Type B(7): Base layer of insulation mechanically fastened, top layer adhered with approved

asphalt.

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

All General and System limitations apply.

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

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 ²

 $Dens Deck^{\texttt{@}}\ Prime\ Roof\ Board,\ SECUROCK^{\texttt{@}}\ Gypsum-Fiber\ Roof\ Board$

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® Ply 4, GAFGLAS® FlexPly™ 6 or Tri-Ply® Ply 4

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[®] 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.

Membrane: Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR,

Ruberoid® Mop Granule FR, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus

Granule FR or Ruberoid[®] EnergyCap[™] 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS® EnergyCapTM 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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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., 33 ksi.

System Type B(8): Base layer of insulation mechanically fastened, top layer adhered with approved

asphalt.

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

All General and System limitations apply.

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

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 ²
Structodek® High Density Roofing Fiberboard		
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[®] Ply 4 or Tri-Ply[®] Ply 4 or GAFGLAS[®]

FlexPlyTM 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® 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.

Membrane: Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCap[™] Mop Plus Granule FR,

Ruberoid® Mop Granule FR, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus

Granule FR or Ruberoid[®] EnergyCap[™] 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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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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS® EnergyCapTM 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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Steel, Insulated Deck Type 2I:

Deck Description: Minimum 22 ga., 33 ksi.

System Type B(9): Base layer of insulation mechanically fastened, top layer adhered with approved

asphalt.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard[™] Polyiso Insulation		
Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:4 ft ²

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 ²
Structodek® High Density Roofing Fiberboard Minimum 1/2" thick	N/A	N/A
DensDeck® Prime Roof Board, SECUROCK® Gypsum-		
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.

Two or three plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPly™ 6 **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.

One or two plies of 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.

Ruberoid® Mop Plus Granule FR, Ruberoid® EnergyCapTM Mop Plus Granule FR, **Membrane:**

Ruberoid[®] Mop Granule FR, Ruberoid[®] 30 Granule FR, Ruberoid[®] 30 Plus

Granule FR or Ruberoid[®] EnergyCap[™] 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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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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS® EnergyCapTM 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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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 ICH Traxx/1 or Teks 1 fasteners spaced at max.

of 24" o.c.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

System Type B(10): Base layer of insulation mechanically fastened, top layer adhered with approved

asphalt.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation		
Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:1.33 ft ²

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 ²
Structodek® High Density Fiberboard Roof Insulation		
Minimum 1/2" thick	N/A	N/A
DensDeck® Prime Roof Board, SECUROCK® Gypsum-Fib	oer 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 Sheets: 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.

OR

One or two plies of 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.

Membrane: Ruberoid® Mop Plus Granule FR, Ruberoid® EnergyCapTM Mop Plus Granule FR,

Ruberoid[®] Mop Granule FR, Ruberoid[®] 30 Granule FR, Ruberoid[®] 30 Plus

Granule FR or Ruberoid® EnergyCap[™] 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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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® 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.

Maximum Design

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



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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 ICH Traxx/1 or Teks 1 fasteners spaced at max.

of 24" o.c.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

System Type B(11): Base layer of insulation mechanically fastened, top layer adhered with approved

asphalt.

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

All General and System limitations apply.

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

EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation

Minimum 2" thick 1, 2, 3, 4, 5, 6, 7 1:1.6 ft²

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) The Density/ft²

SECUROCK® 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® HW Smooth or Ruberoid® HW 25 Smooth, torch-applied in

accordance with the manufacturer's instructions.

Ply Sheet: One ply of Ruberoid® HW Smooth or Ruberoid® HW 25 Smooth, (**Optional**) torch-applied in accordance with the manufacturer's instructions.

Membrane: One or more plies of Ruberoid[®] HW Smooth, Ruberoid[®] HW Granule, Ruberoid[®]

HW Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR, Ruberoid® EnergyCap™ HW Plus Granule FR torch applied in accordance with the

manufacturer's instructions.

Or

One or more plies of Ruberoid® Torch Smooth, Tri-Ply® APP Smooth, Ruberoid® Torch Granule, Tri-Ply® APP Granule, Ruberoid® Torch Plus Granule FR or Ruberoid® EnergyCap $^{\text{TM}}$ Torch Granule FR torch applied in accordance with the

manufacturer's instructions.



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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® 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.

Maximum Design

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



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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 ICH Traxx/1 or Teks 1 fasteners spaced at max.

of 24" o.c.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

System Type B(12): Base layer of insulation mechanically fastened, top layer adhered with approved

asphalt.

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

All General and System limitations apply.

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

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 ²

SECUROCK® 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® Torch Smooth or Tri-Ply® APP Smooth, torch-applied in

accordance with the manufacturer's instructions.

Ply Sheet: One ply of Ruberoid® Torch Smooth or Tri-Ply® APP Smooth, torch-applied in

(Optional) accordance with the manufacturer's instructions.

Membrane: One or more plies of Ruberoid[®] Torch Smooth, Tri-Ply[®] APP Smooth, Ruberoid[®]

Torch Granule, Tri-Ply[®] APP Granule, Ruberoid[®] Torch Plus Granule FR, or Ruberoid[®] EnergyCap[™] 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[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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)



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 30 of 88 **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.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

System Type C(1): Base sheet loose laid dry; both layers of insulation simultaneously fastened.

All General and System limitations apply.

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

Base Insulation Layer Insulation Fasteners (Table 3) Fastener

Energy Cuard™ Polyica Insulation Energy Cuard™ DA Polyica Insulation

Fastener Density/ft²

 $\mathbf{EnergyGuard}^{^{\mathrm{TM}}}$ Polyiso Insulation, $\mathbf{EnergyGuard}^{^{\mathrm{TM}}}$ RA Polyiso 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 Insulation Fasteners (Table 3) Density/ft²

DensDeck® Roof Board

Minimum 0.25" thick 1 & 7 1:1 ft²

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[®] Stratavent[®] Perforated Venting Base Sheet loose laid dry

with 2" side laps.

Ply Sheet: (Required when Heat-Weld or Torch Membranes or Mineral Surfaced Cap

(Optional) Sheets are used.) One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4,

GAFGLAS® FlexPly[™] 6, GAFGLAS® #80 Ultima[™] Base Sheet, Ruberoid® 20 Smooth Ruberoid® Mop 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.



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Membrane:

One or more plies of Ruberoid® 20 Smooth, Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule, Ruberoid® Mop Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus Granule, Ruberoid® Mop Plus Granule FR, Ruberoid® EnergyCap™ Mop Plus Granule FR, Ruberoid® Mop Granule FR or Ruberoid® EnergyCap™ 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[®] HW Smooth, Ruberoid[®] HW Granule, Ruberoid[®] HW Granule FR, Ruberoid[®] HW Plus Granule, Ruberoid[®] HW Plus Granule FR or Ruberoid[®] EnergyCap[™] 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[®] Torch Smooth, Tri-Ply[®] APP Smooth, Ruberoid[®] Torch Granule, Tri-Ply[®] APP Granule, Ruberoid[®] Torch Plus Granule FR, or Ruberoid[®] EnergyCap[™] Torch Granule FR torch applied in accordance with the manufacturer's instructions. Or

(Required to only use with Ruberoid® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth or Ruberoid® Mop Smooth 1.5 ply sheet(s).) GAFGLAS® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or GAFGLAS® EnergyCapTM 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® 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.

Maximum Design

Pressure:

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



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 32 of 88 **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.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

System Type C(2): Base sheet loose laid; insulation mechanically fastened.

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

All General and System limitations apply.

One or more layers of the following:

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation		·
Minimum 1.5" thick	1 & 6	1:1.45 ft ²

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[®] Stratavent[®] Perforated Venting Base Sheet loose laid dry with 2 in.

side laps.

Ply Sheet: One or more plies Ruberoid® 20 Smooth, Ruberoid® Mop 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

Membrane: One or more plies of Ruberoid® 20 Smooth, Ruberoid® 30 Granule, Ruberoid® 30

Granule FR, Ruberoid[®] 30 Plus Granule FR, Ruberoid[®] Mop Granule, Tri-Ply[®] SBS Granule, Intec Flex PRF, Ruberoid[®] Mop Smooth, Ruberoid[®] Mop Smooth 1.5, Ruberoid[®] Mop Plus Smooth, Ruberoid[®] Mop Plus Granule, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR, Ruberoid[®] Mop Granule FR or Ruberoid[®] EnergyCapTM 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[®] HW 25 Smooth, Ruberoid[®] HW Smooth, Ruberoid[®] HW Granule, Ruberoid[®] HW Granule FR, Ruberoid[®] HW Plus Granule, Ruberoid[®] HW Plus Granule FR or Ruberoid[®] EnergyCap[™] HW Plus Granule FR applied in accordance with the manufacturer's instructions.

Or

(Required to only use with Ruberoid® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth or Ruberoid® Mop Smooth 1.5 ply sheet(s).) GAFGLAS® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or GAFGLAS® EnergyCapTM 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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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® 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.

Maximum Design

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



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 34 of 88 **Membrane Type:** SBS/SBS

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gauge, Grade 33, steel deck secured to minimum ¼" (6 mm) thick steel

structural supports 6 ft. (1.8m) o.c. with ITW Buildex TRAXX/5 fasteners 6 in. (1.52) o.c. along the center of the supports. Deck side laps are secured 24 in. (610 mm) o.c.

with ITW Buildex TRAXX/1 fasteners.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

System Type C(3): All insulation simultaneously fastened. Base sheet adhered to insulation.

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

All General and System limitations apply.

One or more layers of the following:

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

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation,

Minimum 2" thick N/A N/A

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

Top Insulation Layer Insulation Fasteners $(Table\ 3)$ Density/ft² SECUROCK® Gypsum-Fiber Roof Board I, 2, 4, 6, 7, 8 1:1.78 ft²

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[®] 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. and broomed in.

Or

One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry with

2" side laps.

Ply Sheet: One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly^{TM} 6,

GAFGLAS[®] #80 Ultima[™] Base Sheet, Ruberoid 20 Smooth, Ruberoid Mop Smooth, Ruberoid[®] Mop Smooth 1.5 or Ruberoid[®] 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® 20 Smooth, Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule FR, Ruberoid® Mop Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus Granule, Ruberoid® Mop Plus Granule FR, Ruberoid® EnergyCap™ Mop Plus Granule FR, Ruberoid® Mop Granule FR or Ruberoid® EnergyCap™ 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® HW Smooth, Ruberoid® HW Granule, Ruberoid® HW Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR or Ruberoid® EnergyCap™ HW Plus Granule FR torch applied in accordance with the manufacturer's instructions.

Or

(Required to only use with Ruberoid® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth or Ruberoid® Mop Smooth 1.5 ply sheet(s).) GAFGLAS® 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.

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[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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)



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 36 of 88 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.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

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

Thermal Barrier: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, (Optional) 1/2" SECUROCK® 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	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™]	RA Polyiso 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	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
SECUROCK® Gypsum-Fiber Roof Board		
Minimum 0.5" thick	1 & 6	1:1 ft ²

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[®] HW 25 Smooth or Ruberoid[®] HW Smooth torch

adhered with 3 in. wide side laps in accordance with manufacturer's instructions.

Membrane: Ruberoid® Torch Smooth, Tri-Ply® APP Smooth, Ruberoid® Torch Granule,, Tri-

Ply[®] APP Granule, Ruberoid[®] Torch Plus Granule FR, or Ruberoid[®] EnergyCap[™] 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[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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: -120 psf. (See General Limitation # 7)



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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.

All layers of insulation are mechanically attached to the roof deck. Membrane is System Type C(5):

adhered.

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

All General and System limitations apply.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation	,	·
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation	,	v
Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:2 ft ²

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.

One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry **Base Sheet:**

with 2" side laps.

Ruberoid® Mop Smooth or Ruberoid® Mop Smooth 1.5 adhered in a full mopping **Ply Sheet:** (Optional)

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

in accordance with the manufacturer's instructions.

One or more 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.

Membrane: Ruberoid® Mop Granule, Intec Flex PRF, Ruberoid® Mop Granule FR, Ruberoid®

> Mop Plus Granule FR or Ruberoid® EnergyCap™ 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.

GAFGLAS® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or 2. GAFGLAS® EnergyCapTM 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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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.

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

All General and System limitations apply.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation	` ,	v
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:1.45 ft ²

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.

One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry **Base Sheet:**

with 2" side laps.

Ruberoid[®] Mop Smooth or Ruberoid[®] Mop Smooth 1.5 adhered in a full mopping **Ply Sheet:** (Optional)

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

accordance with the manufacturer's instructions.

One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4 or GAFGLAS® FlexPlyTM 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® Mop Granule, Intec Flex PRF, Ruberoid® Mop Granule FR, Ruberoid®

Mop Plus Granule FR or Ruberoid® EnergyCap™ 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.



NOA-No.: 25-0926.02 **Expiration Date: 11/06/30** Approval Date: 11/20/25 Page 39 of 88 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® 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.

Maximum Design

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



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

All General and System limitations apply.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation	,	•
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation	,	·
Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:2 ft ²

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® Stratavent® Perforated Venting Base Sheet loose laid dry

with 2" side laps.

Ply Sheet: Ruberoid® 20 Smooth adhered in a full mopping of approved asphalt applied

(Optional) within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with

manufacturer's instructions.

Membrane: Ruberoid® 30 Granule, Ruberoid 30 Plus Granule FR, Ruberoid® 30 Granule FR or

Ruberoid[®] EnergyCap[™] 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS[®] EnergyCapTM 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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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: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, **(Optional)** 1/2" SECUROCK® Gypsum-Fiber Roof Board loose laid on steel deck.

All General and System limitations apply.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard[™] Polyiso Insulation	,	·
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard[™] Polyiso Insulation	,	·
Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:1.45 ft ²

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® Stratavent® Perforated Venting Base Sheet loose laid dry

with 2" side laps.

Ply Sheet: Ruberoid® 20 Smooth adhered in a full mopping of approved asphalt applied (Optional) within the EVT range and at a rate of 20-40 lbs. /sq. in accordance with

within the L v I range and at a rate of 20-40 103.75q. in acce

manufacturer's instructions.

Membrane: Ruberoid® 30 Granule, Ruberoid 30 Plus Granule FR, Ruberoid® 30 Granule FR or

Ruberoid[®] EnergyCap^{fM} 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS[®] EnergyCapTM 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: -75 psf. (See General Limitation # 7)



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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., 33 ksi.

System Type C(9): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation Minimum 1.5" thick	1, 2, 3, 4, 5, 6, 7	1:2 ft ²

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.

One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry **Base Sheet:**

with 2" side laps.

Ruberoid® Mop Smooth or Ruberoid® Mop Smooth 1.5 adhered in a full mopping **Ply Sheet:** (Optional)

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® Mop Granule, Tri-Ply® SBS Granule, Ruberoid® Mop Plus Granule, Membrane:

> Ruberoid® Mop Granule FR, Ruberoid® Mop Plus Granule FR or Ruberoid® EnergyCap[™] 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. and 300 lbs. /sq. respectively in a flood coat

of approved asphalt at 60 lbs. /sq.

GAFGLAS® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or 2.

GAFGLAS® EnergyCapTM 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

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



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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., 33 ksi

System Type C(10): All layers of insulation are mechanically attached to the roof deck. Membrane

is adhered.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation		
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A

Note: Base layer insulation is Minimum 2 in. when top insulation layer is Minimum 2 in.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
EnergyGuard [™] Polyiso Insulation Minimum 1.5" thick	1, 2, 3, 4, 5, 6, 7	1:2 ft ²
EnergyGuard [™] Polyiso Insulation Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:3.2 ft ²

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® Stratavent® Perforated Venting Base Sheet loose laid dry

with 2" side laps.

Ply Sheet: One Ply of Ruberoid® 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® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule FR,

Ruberoid[®] Mop Granule, Tri-Ply[®] SBS Granule, Ruberoid[®] Mop Plus Granule, Ruberoid[®] Mop Granule FR, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®]

EnergyCapTM Mop Plus Granule FR or Ruberoid[®] EnergyCapTM 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[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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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Deck Type 2I: Steel, Insulated

Deck Description: 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: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, **(Optional)** 1/2" SECUROCK® Gypsum-Fiber Roof Board loose laid on steel deck.

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
·	(Table 3)	Density/ft ²
EnergyGuard™ Polyiso Insulation	, , , ,	•
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A

Note: Base layer insulation is Minimum 2 in. when top insulation layer is Minimum 2 in.

Top Insulation Layer	Insulation Fastend (Table 3)	ers Fastener Density/ft²
EnergyGuard [™] Polyiso Insulation Minimum 1.5" thick	1, 2, 3, 4, 5, 6, 7	1:2 ft ²
EnergyGuard [™] Polyiso Insulation Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:3.2 ft ²

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[®] Stratavent[®] Perforated Venting Base Sheet loose laid dry

with 2" side laps.

Ply Sheet: One Ply of Ruberoid® Mop Smooth 1.5 or Ruberoid® 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[®] Mop Granule, Tri-Ply[®] SBS Granule, Intec Flex PRF, Ruberoid[®] Mop

Plus Granule, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR, Ruberoid[®] Mop Granule FR Ruberoid 30 Plus Granule FR or Ruberoid[®] EnergyCapTM 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS[®] EnergyCapTM 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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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., 33 ksi.

System Type C(12): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation		
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A

Note: Base layer insulation is Minimum 2 in. when top insulation layer is Minimum 2 in.

Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation Minimum 1.5" thick	1, 2, 3, 4, 5, 6, 7	1:2 ft ²
EnergyGuard [™] Polyiso Insulation Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:3.2 ft ²

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® Stratavent® Perforated Venting Base Sheet loose laid dry

with 2" side laps.

Ply Sheet: Two plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4 or GAFGLAS[®] FlexPly^{TM} 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® Mop Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop

Plus Granule, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR, Ruberoid[®] Mop Granule FRor Ruberoid[®] EnergyCapTM 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[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., 33 ksi

System Type C(13): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation		
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
DensDeck® Prime Roof Board, SECUROCK® Gypsum-	Fiber Roof Board	
Minimum 0.25" thick	1, 2, 3, 4, 7, 8	1:4 ft ²

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[®] 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.

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One or two plies of Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® 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® 30 Granule FR, Ruberoid® 30 Plus Granule FR, Ruberoid® Mop Plus

Granule FR, Ruberoid[®] EnergyCap[™] Mop Plus Granule FR, Ruberoid[®] Mop Granule FR or Ruberoid[®] EnergyCap[™] 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS[®] EnergyCapTM 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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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: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, **(Optional)** 1/2" Securock® Gypsum-Fiber Roof Board loose laid on steel deck.

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation	,	v
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
•	(Table 3)	Density/ft ²
DensDeck® Prime Roof Board, SECUROCK® Gypsum	-Fiber Roof Board	·
Minimum 0.5" thick	1, 2, 3, 4, 7, 8	1:2 ft ²
DensDeck® Prime Roof Board, SECUROCK® Gypsum	-Fiber Roof Board	
Minimum 0.5" thick	1, 2, 3, 4, 7, 8	1:1.6 ft ²

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[®] 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.

OR

One or two plies of 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.

Membrane: Ruberoid® 30 Granule FR, Ruberoid 30 Plus Granule FR, Ruberoid® Mop Plus

Granule FR, Ruberoid[®] EnergyCap[™] Mop Plus Granule FR, Ruberoid[®] Mop Granule FR or Ruberoid[®] EnergyCap[™] 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.



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 48 of 88 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS® EnergyCapTM 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

-60 psf. (See General Limitation # 7) for 1:2 ft² fastener density

Pressure: -82.5 psf. (See General Limitation # 7) for 1:1.6 ft² fastener density



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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. This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

System Type C(15): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard [™] Polyiso Insulation		
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
DensDeck® Prime Roof Board, SECUROCK® Gypsum	-Fiber Roof Board	-
Minimum 0.5" thick	1, 2, 3, 4, 7, 8	1:1.6 ft ²

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[®] 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.

OR

One or two plies of 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.

Membrane: Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule FR, Ruberoid® Mop Plus

Granule FR, Ruberoid[®] EnergyCap[™] Mop Plus Granule FR, Ruberoid[®] Mop Granule FR or Ruberoid[®] EnergyCap[™] 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.



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 50 of 88 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[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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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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 3/4" washers. The deck side laps are fastened 24 in. o.c. with Traxx/1 or Teks 1

fasteners and 3/4" washers.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

System Type C(16): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard[™] Polyiso Insulation	,	•
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
DensDeck® Prime Roof Board, SECUROCK® Gypsum-F	iber Roof Board	-
Minimum 0.5" thick	1, 2, 3, 4, 7, 8	1:1.45 ft ²

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[®] 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.

OR

One or two plies of 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.

Membrane: Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule FR, Ruberoid® Mop Plus

Granule FR, Ruberoid[®] EnergyCap[™] Mop Plus Granule FR, Ruberoid[®] Mop Granule FR or Ruberoid[®] EnergyCap[™] 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.



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 52 of 88 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[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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: -97.5 psf. (See General Limitation # 7)



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

All General and System limitations apply.

Insulation Layer

Insulation Fasteners
(Table 3)

EnergyGuard™ Polyiso Insulation

Minimum 1.5" thick to Maximum 12" thickness.

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

1:2 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: One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry

with 2" side laps.

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, Ruberoid[®] Mop Plus 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS® EnergyCapTM 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)



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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(18): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Insulation Layer
Insulation Fasteners
(Table 3)
EnergyGuard™ Polyiso Insulation
Minimum 1.5" thick to Maximum 12" thickness.
1, 2, 3, 4, 5, 6, 7
1:2 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: 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 $^{\text{TM}}$ 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, Ruberoid[®] Mop Plus 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® 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.

Maximum Design

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



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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.

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

All General and System limitations apply.

Insulation Laver Insulation Fasteners Fastener Density/ft² (Table 3) **EnergyGuard[™] Polyiso Insulation** 1:2 ft²

Minimum 3" thick to Maximum 12" thickness.

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

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.

One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry **Base Sheet:**

with 2" side laps.

One ply of Ruberoid® 20 Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop **Ply Sheet:**

> 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.

Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule FR, Membrane:

> Ruberoid® Mop Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop Plus Granule, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR, Ruberoid® Mop Granule FR or Ruberoid® EnergyCapTM 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.

GAFGLAS® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or 2.

GAFGLAS® EnergyCapTM 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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Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 gauge, Grade 33

System Type C(20): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Insulation Layer

Insulation Fasteners
(Table 3)

EnergyGuard™ Polyiso Insulation

Minimum 3" thick to Maximum 12" thickness.

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

1:4 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: 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 $^{\text{TM}}$ 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, Ruberoid[®] Mop Plus 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS® EnergyCapTM 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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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(21): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Insulation Layer

Insulation Fasteners
(Table 3)

EnergyGuard™ Polyiso Insulation

Minimum 3" thick to Maximum 12" thickness.

Insulation Fasteners
(Table 3)

Density/ft²

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

1:1.6 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: One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry

with 2" side laps.

Ply Sheet: One ply of Ruberoid[®] 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[®] Mop Granule or Ruberoid[®] 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® 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.

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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS[®] EnergyCapTM 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)



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 58 of 88 **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: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, **(Optional)** 1/2" SECUROCK® Gypsum-Fiber Roof Board loose laid on steel deck.

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA	Polyiso Insulation	
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
SECUROCK® Gypsum-Fiber Roof Board		
Minimum 0.375" thick	1, 2, 3, 4, 7	1:1.33 ft ²

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[®] HW Smooth or Ruberoid[®] HW 25 Smooth torch-applied in

accordance with the manufacturer's instructions.

Ply Sheet: One ply of Ruberoid® HW Smooth or Ruberoid® HW 25 Smooth torch-applied in

(Optional) accordance with the manufacturer's instructions.

Membrane: One or more plies of Ruberoid® HW Smooth, Ruberoid® HW Granule, Ruberoid®

HW Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR, Ruberoid® EnergyCap™ HW Plus Granule FR torch applied in accordance with the

manufacturer's instructions.

Or

One or more plies of Ruberoid[®] Torch Smooth, Tri-Ply[®] APP Smooth, Ruberoid[®] Torch Granule, Tri-Ply[®] APP Granule, Ruberoid[®] Torch Plus Granule FR, or Ruberoid[®] EnergyCap[™] Torch Granule FR torch applied in accordance with the

manufacturer's instructions.



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 59 of 88 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® 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.

Maximum Design

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 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(23): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation, EnergyGuard [™] RA	(Table 3) Polyiso Insulation	Density/it-
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
SECUROCK® Gypsum-Fiber Roof Board		
Minimum 0.375" thick	1, 2, 3, 4, 7	1:1.33 ft ²

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® Torch Smooth or Tri-Ply® APP Smooth torch-applied in

accordance with the manufacturer's instructions.

Ply Sheet: One ply of Ruberoid® Torch Smooth or Tri-Ply® APP Smooth torch-applied in

(**Optional**) accordance with the manufacturer's instructions.

Membrane: One or more plies of Ruberoid® Torch Smooth, Tri-Ply® APP Smooth, Ruberoid®

Torch Granule,, Tri-Ply[®] APP Granule, Ruberoid[®] Torch Plus Granule FR, or Ruberoid[®] EnergyCap[™] 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® 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.

Maximum Design

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



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 61 of 88 **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.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

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.

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

Insulation Laver Insulation Fasteners Fastener (Table 3) Density/ft² EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation

Minimum 2" thick 1:1.45 ft²

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.

One ply of GAFGLAS® Stratavent® Perforated Venting Base Sheet loose laid dry, **Base Sheet:**

with 2" side laps.

One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly^{$^{\text{TM}}$} 6, **Ply Sheet:**

> GAFGLAS[®] #80 Ultima[™] Base Sheet, Ruberoid[®] 20 Smooth, Ruberoid[®] Mop Smooth, Ruberoid[®] Mop Plus Smooth or Ruberoid[®] 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.

Maximum two plies of Ruberoid® Torch Smooth, Tri-Ply® APP Smooth, Membrane:

> Ruberoid® Torch Granule,, Tri-Ply® APP Granule, Ruberoid® Torch Plus Granule FR, or Ruberoid® EnergyCap[™] Torch Granule FR torch applied in accordance with

the manufacturer's instructions.

Or

Maximum two plies of Ruberoid® HW Smooth, Ruberoid® HW Granule, Ruberoid® HW Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR or Ruberoid® EnergyCap™ 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® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth or Ruberoid® Mop Smooth 1.5 ply sheet(s).) GAFGLAS[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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.



NOA-No.: 25-0926.02 **Expiration Date: 11/06/30** Approval Date: 11/20/25 Page 62 of 88 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or

GAFGLAS® EnergyCapTM 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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Deck Type 2I: Steel, Insulated

Deck Description: 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: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, **(Optional)** 1/2" SECUROCK® Gypsum-Fiber Roof Board loose laid on steel deck.

All General and System limitations apply.

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

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® Stratavent® Perforated Venting Base Sheet loose laid dry

with 2" side laps.

Ply Sheet: One ply of Ruberoid® 20 Smooth, Ruberoid® Mop 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. applied 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. applied in accordance with manufacturer's

instructions.

Membrane: One or more plies of Ruberoid[®] 30 Granule, Ruberoid[®] 30 Granule FR, Ruberoid[®]

30 Plus Granule FR, Ruberoid[®] Mop Granule, Tri-Ply[®] SBS Granule, Intec Flex PRF, Ruberoid[®] Mop Smooth, Ruberoid[®] Mop Smooth 1.5, Ruberoid[®] Mop Plus

Smooth, Ruberoid[®] Mop Plus Granule, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR, Ruberoid[®] Mop Granule FR or Ruberoid[®] EnergyCapTM 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

(Required to only use with Ruberoid® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth or Ruberoid® Mop Smooth 1.5 ply sheet(s).) GAFGLAS® 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.



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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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or 2. GAFGLAS® EnergyCapTM 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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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(26): All layers of insulation are mechanically attached to the roof deck. Membrane is

adhered.

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

All General and System limitations apply.

Base Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard [™] Polyiso Insulation	,	v
Minimum 1.5" thick to Maximum 12" thickness.	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard[™] Polyiso Insulation	,	•
Minimum 2" thick	1, 2, 3, 4, 5, 6, 7	1:1.45 ft ²

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® Stratavent® Perforated Venting Base Sheet loose laid dry with

2" side laps.

Ply Sheet: Ruberoid® Mop Smooth or Ruberoid® 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® 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.

Membrane: Ruberoid® Mop Granule, Intec Flex PRF, Ruberoid® 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. and 300 lbs./sq. respectively in a flood coat

of approved asphalt at 60 lbs./sq.

2. GAFGLAS® 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.

Maximum Design

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



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 66 of 88 **Membrane Type:** APP/SBS Heat-Weld

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 18-22 ga. steel

System Type D(1): Insulation and Base sheet simultaneously attached

Thermal Barrier: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, **(Optional)** 1/2" SECUROCK® 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 ²
EnergyGuard [™] RA Polyiso Insulation	,	·
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft²
SECUROCK® 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. See base sheet below for fasteners and density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Base Sheet: GAFGLAS[®] #75 Base Sheet, Tri-Ply[®] #75 Base Sheet, GAFGLAS[®] #80 Ultima[™] Base

Sheet, GAFGLAS® Stratavent® Nailable Venting Base Sheet, Ruberoid® HW 25 Smooth, Ruberoid® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth applied over the loose laid insulation with 2" side laps

fastened as specified below:

Drill Tec[™] #12 Fastener or Drill-Tec[™] #14 Fastener and Drill-Tec[™] 3" Steel Plate or Drill-Tec[™] AccuTrac[®] 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: One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly^{$^{\text{TM}}$} 6 or GAFGLAS[®] #80 Ultima^{$^{\text{TM}}$} Base Sheet adhered in a full mopping of approved asphala

GAFGLAS[®] #80 Ultima[™] 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® Torch Smooth, Tri-Ply® APP Smooth, Ruberoid®

Torch Granule, Tri-Ply® APP Granule, Ruberoid® Torch Plus Granule FR, or torch

applied in accordance with the manufacturer's instructions.

Or

One or more plies of Ruberoid® HW Smooth, Ruberoid® HW Granule, Ruberoid® HW

Granule FR, Ruberoid[®] HW Plus Granule, Ruberoid[®] HW Plus Granule FR or Ruberoid[®] EnergyCap[™] HW Plus Granule FR torch applied or applied with an approved hot air welder in accordance with the manufacturer's instructions.



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 67 of 88 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® 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.

Maximum Design

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



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 68 of 88 **Membrane Type:** SBS/SBS

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 18-22 ga. steel

System Type D(2): Insulation and Base sheet simultaneously attached

Thermal Barrier: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, (Optional) 1/2" SECUROCK® 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 ²
EnergyGuard [™] RA Polyiso Insulation	(1 abic 3)	Density/It
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
SECUROCK® Gypsum-Fiber Roof Board	(1)	2 0113103/10
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[®] #75 Base Sheet, Tri-Ply[®] #75 Base Sheet, GAFGLAS[®] #80 Ultima[™] Base

Sheet, GAFGLAS® Stratavent® Nailable Venting Base Sheet, Ruberoid® HW 25 Smooth, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth applied over the loose laid insulation with 2" side laps fastened as specified below:

Drill-Tec[™] #12 Fastener or Drill-Tec[™] #14 Fastener and Drill-Tec[™] 3" Steel Plate or Drill-Tec[™] AccuTrac[®] 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: One or more plies of GAFGLAS[®] Ply 4, Tri-Ply[®] Ply 4, GAFGLAS[®] FlexPly^{$^{\text{TM}}$} 6 or **(Optional)** GAFGLAS[®] #80 Ultima^{$^{\text{TM}}$} Base Sheet adhered in a full mopping of approved asphala

GAFGLAS[®] #80 Ultima[™] 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.



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Membrane:

One or more plies of Ruberoid® 20 Smooth, Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule FR, Ruberoid® Mop Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid[®] Mop Plus Granule, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR, Ruberoid[®] Mop Granule FR or Ruberoid[®] EnergyCapTM 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® 20 Smooth, Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® 30 Plus Granule FR, Ruberoid® Mop Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus Granule, Ruberoid® Mop Plus Granule FR, Ruberoid® EnergyCap™ Mop Plus Granule FR, Ruberoid® Mop Granule FR or Ruberoid® EnergyCapTM 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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

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



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Membrane Type: SBS Cold Applied

Deck Type 21: 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.

This Tested Assembly has been analyzed for allowable deck stress. See

Evidence Submitted Table.

System Type D(3): Insulation is loose laid; base sheet is mechanically fastened through insulation to

the roof deck.

Thermal Barrier: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, **(Optional)** 1/2" SECUROCK® 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 ²
EnergyGuard[™] 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 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.

Base Sheet: GAFGLAS[®] #80 Ultima[™] Base Sheet, GAFGLAS[®] Stratavent[®] Nailable Venting

Base Sheet, Ruberoid[®] Mop Smooth, Ruberoid[®] Mop Smooth 1.5 or Ruberoid[®] Mop Plus Smooth mechanically attached through the insulation to the steel deck with Drill-Tec[™] #12 Fasteners or Drill-Tec[™] #14 Fasteners and Drill-Tec[™] AccuTrac[®] Flat Plates, Drill-Tec[™] AccuTrac[®] Recessed Plates, Drill-Tec[™] 3" Standard Steel Plates or Drill-Tec[™] 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® 20 Smooth, Ruberoid® Mop Smooth, Ruberoid®

Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth adhered to the base sheet with minimum 4 in. wide laps with Matrix™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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Membrane:

One or more plies of Ruberoid® 30 Granule, Ruberoid® 30 Granule FR, Ruberoid® Mop Granule, Tri-Ply® SBS Granule, Intec Flex PRF, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Mop Plus Granule, Ruberoid® Mop Plus Granule FR, Ruberoid® EnergyCap™ Mop Plus Granule FR, Ruberoid® EnergyCap™ Mop Plus Granule FR, Ruberoid® EnergyCap™ 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[®] Mineral-Surfaced Cap Sheet, Tri-Ply[®] BUR Granule Cap Sheet or GAFGLAS[®] EnergyCapTM 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 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® Roof Board, DensDeck® Prime Roof Board, Thermal Barrier: 1/2" SECUROCK® 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 Fasteners Fastener (Table 3) Density/ft²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation

Minimum 1.5" thick 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® Mop Smooth, Ruberoid® Mop Smooth 1.5 or

Ruberoid[®] Mop Plus Smooth fastened to the deck with Drill-Tec[™] #12 Fasteners, Drill-Tec[™] AccuTrac[®] Flat Plates, Drill-Tec[™] AccuTrac[®] Recessed Plates or Drill-Tec[™] 3" Standard Steel Plates spaced 6 in o.c. through the minimum 3.25 in wide

side laps.

One or more plies of Ruberoid® HW Smooth, Ruberoid® HW Granule, Ruberoid® **Membrane:**

HW Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR or Ruberoid® EnergyCap™ 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.

Optional on granular surfaced membranes; required for smooth membranes. **Surfacing:**

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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or 2.

GAFGLAS® EnergyCapTM 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

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



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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® Roof Board, DensDeck® Prime Roof Board, **(Optional)** 1/2" SECUROCK® 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/ft²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] 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® Mop Smooth, Ruberoid® Mop Smooth 1.5 or

Ruberoid® Mop Plus Smooth fastened to the deck with Drill-Tec™ #12 Fasteners, Drill-Tec™ AccuTrac® Flat Plates, Drill-Tec™ AccuTrac® Recessed Plates or Drill-Tec™ 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® HW Smooth, Ruberoid® HW Granule, Ruberoid® HW

Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR or Ruberoid® EnergyCap™ 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. GAFGLAS® 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.

Maximum Design

Pressure: -112.5 (See General Limitation # 7)



NOA-No.: 25-0926.02 Expiration Date: 11/06/30 Approval Date: 11/20/25 Page 74 of 88 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.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

System Type D(6): Insulation is loose laid; preliminary attachment to deck.

Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, Thermal Barrier: 1/2" SECUROCK® 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 Fasteners Insulation Layer Fastener Density/ft² (Table 3)

EnergyGuard[™] Polviso Insulation, EnergyGuard[™] RA Polviso Insulation

Minimum 1.5" thick 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.**

One ply of the following Ruberoid® Mop Smooth, Ruberoid® Mop Plus Smooth or Base Ply:

Ruberoid[®] Mop Smooth 1.5 fastened to the deck with Drill-Tec[™] AccuTrac[®] Flat Plates and Drill-Tec[™] 3" Standard Steel Plates with Drill-Tec[™] #12 Fasteners spaced

12 in. o.c. through the minimum 3.5 in. wide side laps.

One or more plies of Ruberoid® HW Smooth, Ruberoid® HW Granule, Ruberoid® **Membrane:**

> HW Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR or Ruberoid[®] EnergyCap[™] 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or GAFGLAS® EnergyCapTM 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.

This Tested Assembly has been analyzed for allowable deck stress. See Evidence

Submitted Table.

System Type D(7): Insulation is loose laid; preliminary attachment to deck.

Thermal Barrier: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, **(Optional)** 1/2" SECUROCK® 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 (Table 3) Fastener Density/ft²

EnergyGuard™ 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 ply of Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop

Plus Smooth fastened to the deck with Drill-Tec[™] #12 Fasteners and Drill-Tec[™] 3"

Standard Steel Plates or Drill-Tec[™] 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® 20 Smooth, Ruberoid® Mop 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. applied in accordance with

manufacturer's instructions.

Membrane: One or more plies of Ruberoid[®] 30 Granule, Ruberoid[®] 30 Granule FR, Ruberoid[®]

30 Plus Granule FR, Ruberoid[®] Mop Granule, Tri-Ply[®] SBS Granule, Intec Flex PRF, Ruberoid[®] Mop Smooth, Ruberoid[®] Mop Smooth 1.5, Ruberoid[®] Mop Plus Smooth, Ruberoid[®] Mop Plus Granule, Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCap[™] Mop Plus Granule FR, Ruberoid[®] Mop Granule FR or Ruberoid[®] EnergyCap[™] 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or GAFGLAS® EnergyCapTM 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)



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Membrane Type: SBS/SBS

DensDeck® Roof Board

Deck Type 2I: Steel, Insulated

Deck Description: Minimum 22 ga., 33 ksi.

System Type D(8): Insulation is loose laid: preliminary attachment to deck.

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

All General and System limitations apply.

One or more layers of the following insulations.

Base Insulation Layer	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RA Pol	yiso Insulation	
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners	Fastener
	(Table 3)	Density/ft ²
Structodek® High Density Roofing Fiberboard Roof Insula	tion, EnergyGuard [™] HD	Polyiso
Insulation or EnergyGuard [™] HD Plus Polyiso Insulation		
Minimum 0.5" thick	N/A	N/A

Minimum 0.25" thick 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.

One ply of Ruberoid® Mop Smooth 1.5 fastened to the deck with Drill-Tec[™] #12 or **Base Sheet:**

#14 Fasteners and Drill-Tec[™] 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.

N/A

and are torched or hot air welded.

One or more plies of Ruberoid® Mop Plus Granule FR, Ruberoid® Mop Granule FR Membrane:

> or Ruberoid[®] EnergyCapTM 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.

Ruberoid® HW Granule, Ruberoid® HW Granule FR, Ruberoid® HW Plus Granule, Ruberoid® HW Plus Granule FR or Ruberoid® EnergyCap™ HW Plus Granule FR or torch adhered with minimum 3 in. wide laps in accordance with the manufacturer's

instructions.



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N/A

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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or 2. GAFGLAS® EnergyCapTM 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: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, (Optional) 1/2" SECUROCK® 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 Insulation Fasteners Fastener (Table 3) Density/ft²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

 $Structodek^{\text{$\mathbb{R}$}}\ High\ Density\ Roofing\ Fiberboard\ Roof\ Insulation,\ EnergyGuard^{\text{$^{\top}$}}\ HD\ Polyiso$

Insulation, EnergyGuard[™] HD Plus Polyiso Insulation.

Minimum 0.5" thick N/A N/A

DensDeck® 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® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth fastened to

the deck with Drill-Tec[™] Batten Bars centered in the 4 in. wide side laps and Drill-Tec[™] #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[®] Mop Plus Granule FR, Ruberoid[®] EnergyCap™

Mop Plus Granule FR or Ruberoid[®] 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[®] HW Granule, Ruberoid[®] HW Granule FR, Ruberoid[®] HW Plus Granule, Ruberoid[®] HW Plus Granule FR or Ruberoid[®] EnergyCap[™] 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® Mineral-Surfaced Cap Sheet, Tri-Ply® BUR Granule Cap Sheet or 2. GAFGLAS® EnergyCapTM 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. 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® Roof Board, DensDeck® Prime Roof Board, **(Optional)** 1/2" SECUROCK® 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) Fensity/ft²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional) Insulation Fasteners Fastener

(Table 3) Density/ft²

Structodek® High Density Roofing Fiberboard Roof Insulation, EnergyGuard™ HD Polyiso

Insulation, EnergyGuard[™] HD Plus Polyiso Insulation.

Minimum 0.5" thick N/A N/A

 $DensDeck^{\mathbb{R}}\ Roof\ Board$

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® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth fastened to

the deck with Drill-Tec[™] Batten Bars centered in the 4 in. wide side laps and Drill-Tec[™] 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 Fasteners spaced maximum 12 in. o.c. along the batten bar for a **Attachment: Maximum Design Pressure: -67.5 psf. (General Limitation #7)**

Fasteners spaced maximum 18 in. o.c. along the batten bar for a *Maximum Design Pressure: -45 psf. (General Limitation #7)*



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Membrane:

One or more plies of Ruberoid[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR or Ruberoid[®] 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[®] HW Granule, Ruberoid[®] HW Granule FR, Ruberoid[®] HW Plus Granule, Ruberoid[®] HW Plus Granule FR or Ruberoid[®] EnergyCap[™] 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® 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.

Maximum Design

Pressure: See Base Sheet Attachment.



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

Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime Roof Board, Thermal Barrier: 1/2" SECUROCK® 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 Layer	Insulation Fasteners (Table 3)	Fastener Density/ft ²
EnergyGuard™ Polyiso Insulation, EnergyGuard™	RA Polyiso Insulation	
Minimum 1.5" thick	N/A	N/A
Top Insulation Layer (Optional)	Insulation Fasteners (Table 3)	Fastener Density/ft ²
Structodek® High Density Roofing Fiberboard Roo	of Insulation,	·
EnergyGuard [™] HD Polyiso Insulation Minimum 0.5" thick	N/A	N/A
DensDeck® 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.

One ply of Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth fastened to Base Sheet:

the deck with Drill-Tec[™] 2 in. Barbed Plates and Drill-Tec[™] 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[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR or Ruberoid[®] 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[®] HW Granule, Ruberoid[®] HW Granule FR, Ruberoid[®] HW Plus Granule, Ruberoid[®] HW Plus Granule FR or Ruberoid[®] EnergyCap[™] 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® 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.

Maximum Design

Pressure:

-52.5 (See General Limitation #7)



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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.

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: Minimum 1/4" DensDeck® Roof Board, DensDeck® Prime® Roof Board, **(Optional)** 1/2" SECUROCK® 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 ²

EnergyGuard[™] Polyiso Insulation, EnergyGuard[™] RA Polyiso Insulation

Minimum 1.5" thick N/A N/A

Top Insulation Layer (Optional)

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

Structodek® High Density Roofing Fiberboard Roof Insulation,

EnergyGuard[™] HD Polyiso Insulation

Minimum 0.5" thick N/A N/A

DensDeck® 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® Mop Smooth 1.5 or Ruberoid® Mop Plus Smooth fastened to

the deck with Drill-Tec[™] 2 3/8 in. Barbed XHD Plates and Drill-Tec[™] 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[®] Mop Plus Granule FR, Ruberoid[®] EnergyCapTM Mop Plus Granule FR or Ruberoid[®] 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[®] HW Granule, Ruberoid[®] HW Granule FR, Ruberoid[®] HW Plus Granule, Ruberoid[®] HW Plus Granule FR or Ruberoid[®] EnergyCap[™] 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® 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.

Maximum Design

Pressure: -67.5 (See General Limitation # 7)



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STEEL DECK SYSTEM LIMITATIONS:

- 1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect or Registered Roof Consultant.
- 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.
- 7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect or Registered Roof Consultant (When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)
- 8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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