

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

Siplast, Inc. 1111 Highway 67 South Arkadelphia, AR 71923

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: Siplast Modified Bitumen Roof Systems over 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. 18-0620.01 and consists of pages 1 through 23. The submitted documentation was reviewed by Jorge L. Acebo.



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ROOFING SYSTEM APPROVAL

<u>Category:</u>	Roofing
<u>Sub-Category:</u>	Modified Bitumen
<u>Deck Type:</u>	Steel
<u>Material:</u>	SBS
<u>Maximum Design Pressure:</u>	-150 psf.

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

Product	<u>Dimensions</u>	Test <u>Specification</u>	Product <u>Description</u>
Paradiene 20	3.28' x 50' 90 lbs./sq.	ASTM D6163	Asphalt elastomer sheet with random fiberglass mat reinforcement used as the base ply of a Paradiene 20/30 system.
Paradiene 20 HT	3.28' x 50' 90 lbs./sq.	ASTM D6163	Asphalt elastomer sheet with fiberglass scrim reinforcement for use as a base ply of a Paradiene 20/30 system.
Paradiene 20 EG	3.28' x 33.5' 90 lbs./sq.	ASTM D6163	Heavy duty asphalt elastomer sheet with fiberglass scrim reinforcement for use as a base ply in Paradiene systems.
Paradiene 20 HV	3.28' x 33.5' 90 lbs./sq.	ASTM D6163	Heavy duty asphalt elastomer sheet with random fiberglass mat reinforcement used as a base ply of a Paradiene 20/30 system.
Paradiene 20 PR	3.28' x 50' 55 lbs./sq.	ASTM D6164	Asphalt elastomer sheet with polyester fiberglass scrim composite reinforcement used as the top ply of a Paradiene 20/20 PR system having a gravel surfacing. Has additional puncture resistance.
Paradiene 20 TG	3.28' x 33.5' 70 lbs./sq.	ASTM D6163	Asphalt elastomer sheet with random fiberglass reinforcement used as the base ply of a Paradiene 20/30 TG Series system.
Paradiene 20 TG F	3.28' x 33.5' 70 lbs./sq.	ASTM D6163	Asphalt elastomer sheet with random fiberglass reinforcement used as the base ply of a Paradiene 20/30 TG Series system.
Paradiene 20 HT TG	3.28' x 33.5' 70 lbs./sq.	ASTM D6163	Asphalt elastomer sheet with fiberglass scrim reinforcement for use as a base ply of a Paradiene 20/30 system.
Paradiene 20 EG TG	3.28' x 33.5' 100 lbs./sq.	ASTM D6163	Heavy duty asphalt elastomer sheet with fiberglass scrim reinforced for use as a base ply in Paradiene 20TG/30TG systems.
Paradiene 20 HV TG	3.28' x 33.5' 100 lbs./sq.	ASTM D6163	Heavy duty asphalt elastomer sheet with random fiberglass mat reinforcement used as a base ply of a Paradiene 20TG/30TG system.
MIAMI-DADE COUNTY APPROVED			NOA No.: 22-1020.05 Expiration Date: 04/14/28 Approval Date: 04/06/23

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		Test	Product
<u>Product</u>	Dimensions	Specification	Description
Paradiene 30 FR	3.28' x 33.5' 85 lbs./sq.	ASTM D6163	Asphalt elastomer sheet with mineral surfacing and random glass mat reinforcement, for use as the top ply of a Paradiene 20/30 system.
Paradiene 30 HT FR	3.28' x 33.5' 87 lbs./sq.	ASTM D6163	Fire-rated asphalt elastomer sheet with mineral surfacing and fiberglass scrim reinforcement for use as the top ply of a Paradiene 20/30 FR system.
Paradiene 30 MW FR	3.28' x 33.5' 87 lbs./sq.	ASTM D6163	Fire rated asphalt elastomer sheet with mineral surfacing and ultra high tensile fiberglass reinforcement for use as the top ply of a Paradiene 20/30 FR system.
Paradiene 30 FR TG	3.28' x 25.25' 80 lbs./sq.	ASTM D6163	Fire rated asphalt elastomer sheet with mineral surfacing and random fiberglass mat reinforcement for use as the top ply sheet of a Paradiene 20/30 TG Series system.
Paradiene 30 HT FR TG	3.28' x 25.25' 80 lbs./sq.	ASTM D6163	Fire rated asphalt elastomer sheet with mineral surfacing and fiberglass scrim reinforcement for use as the top ply of a Paradiene TG Series system.
Paradiene 30 FR TG BW	3.28' x 25.25' 96 lbs./sq.	ASTM D6163	Fire rated asphalt elastomer sheet with mineral surfacing and random fiberglass mat reinforcement for use as the top ply sheet of a Paradiene 20/30 TG Series system.
Parafor 50 LT	3.28' x 17.5' 114 lbs./sq.	ASTM D6162	Heavy duty asphalt elastomer sheet with mineral surfacing, polyester mat scrim reinforced.
Parafor 50 TG	3.28' x 17.5' 114 lbs./sq.	ASTM D6162	Heavy duty asphalt elastomer sheet with mineral surfacing, polyester mat scrim reinforced.
IREX 40	3.28' x 34' 89 lbs./sq.	ASTM D6163	High-melt asphalt sheet with random fiberglass mat reinforcement for use as the base ply sheet for a Veral system.
IREX HT	3.28' x 34' 89 lbs./sq.	ASTM D6163	High-melt asphalt sheet with fiberglass scrim reinforcement for use as a base ply sheet for the Veral system.
Veral Aluminum	3.28' x 33.5' 90 lbs./sq.	ASTM D6298	Aluminum clad asphalt elastomer sheet with woven fiberglass reinforcement for use as the top ply sheet of a Veral system.
PA 311/ 311 M	5 or 55 gal.	ASTM D4479	Blend of adhesive asphalts and quick- drying solvents.
PA 1125	5 or 55 gal.	ASTM D41	Asphalt primer.
PC - 227	5 or 55 gal	ASTM D6083	Elastomeric roof coating.
SFT Adhesive	5 gal	Proprietary	A single component, solvent free, modified asphalt adhesive



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APPROVED INSULATIONS:

Product Name

TABLE 2Product Description

Polyisocyanurate Insulation

Paratherm W
ACFoam II
DensDeck, DensDeck Prime
H-Shield
H-Shield Tapered
ENRGY 3
ENRGY 3 Tapered
ENRGY 3 AGF
ENRGY 3 AGF Tapered
ENRGY 3 AGF 25 PSI
ENRGY 3 AGF 25 PSI Tapered
ENRGY 3 CGF 25 PSI
ENRGY 3 CGF 25 PSI Tapered
ENRGY 3 CGF
ENRGY 3 CGF Tapered
ValuTherm AGF
ValuTherm AGF Tapered
ValuTherm CGF
ValuTherm CGF Tapered ValuTherm AGF 25 PSI
ValuTherm AGF 25 PSI Tapered
ValuTherm CGF 25 PSI Tapered
ValuTherm CGF 25 PSI Tapered
DuraBoard
SECUROCK Cement Roof Board
SECUROCK Gypsum-Fiber Roof
Board
EnergyGuard Polyiso Insulation
(flat and tapered)
EnergyGuard Ultra Polyiso
Insulation (flat and tapered)
Paratherm N
Paratherm N Tapered
Paratherm N CG
Paratherm N CG Tapered
Paratherm N 25 psi
Paratherm N 25 psi Tapered
Paratherm N 25 psi CG
Paratherm N 25 psi CG Tapered
Paratherm G
Paratherm G Tapered
Paratherm G CG
Paratherm G CG Tapered

MIAMI-DADE COUNTY

Polyisocyanurate Insulation Water resistant gypsum Polyisocyanurate foam insulation Polyisocyanurate Insulation. 25 psi Polyisocyanurate Insulation with Uncoated Glass Facer 25 psi Polyisocyanurate Insulation with Uncoated Glass Facer 25 psi Polyisocyanurate Insulation with Coated Glass Facer Polyisocyanurate Insulation with Coated Glass Facer Polyisocyanurate Insulation with Uncoated Glass Facer Polyisocyanurate Insulation with Coated Glass Facer Polyisocyanurate Insulation with Uncoated Glass Facer Polyisocyanurate Insulation with Coated Glass Facer High-density Perlite roof insulation. A rigid, gypsum based board stock for use as an overlayment, underlayment or bonding surface. Water resistant recycled cellulose and synthetic gypsum Polyiso insulation with fiberglass reinforced organic facers Polyiso insulation with coated fiberglass facers Polyisocyanurate Insulation Polyisocyanurate Insulation with Coated Glass Facer 25 psi Polyisocyanurate Insulation 25 psi Polyisocyanurate Insulation with Coated Glass Facer Polyiso insulation with fiberglass reinforced organic facers Polyiso insulation with coated fiberglass facers

Manufacturer (With Current NOA) Siplast Atlas Roofing Corp. Georgia-Pacific Gypsum LLC Hunter Panels, LLC

Johns Manville Johns Manville Johns Manville Johns Manville Johns Manville Johns Manville Co Johns Manville Johns Manville Johns Manville Johns Manville **US** Gypsum Corporation **US** Gypsum Corporation GAF GAF Siplast, Inc. Siplast, Inc. Siplast, Inc. Siplast, Inc. Siplast, Inc. Siplast, Inc.

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APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	#15 Roofgrip Large Head	Carbon steel fastener for use in steel, concrete or wood decks.	#15 x 14" max. Length	OMG, Inc.
2.	#12 Standard Roofgrip	Carbon steel fastener for use in steel, concrete or wood decks.	#12 x 8" max. Length	OMG, Inc.
3.	Flat Bottom Metal Plate	A2-SS aluminized steel plate for use with #12, #14 Roofgrip and #15 Roofgrip.	3" square; .017" thick	OMG, Inc.
4.	Parafast Roofing Fasteners	Carbon steel fastener for use in steel or wood decks.	#12 x 8" max. Length	Siplast, Inc.
5.	Parafast Metal Plates	Round galvalume plated steel stress plate with reinforcing ribs for use with OMG fasteners.	3" round	Siplast, Inc.
6.	125 Tri Rib Plates	Round galvalume plated steel stress plate with reinforcing ribs for use with Parafast fasteners.	3" round	Siplast, Inc.
7.	Parafast PA Fasteners	Pre–Assembled Parafast Fastener and Parafast 3" Metal Plate	#12 x 8" max. length; #3	Siplast, Inc.
8.	OMG XHD	Fastener for use in wood, steel or concrete decks.	#15 x 16"max. length	OMG, Inc.
9.	OMG 2 ³ / ₄ " Super XHD Barbed Plate	Round galvanized steel stress plates for use with OMG fasteners.	2 ³ / ₄ " round	OMG, Inc.
10.	3 in. Ribbed Galvalume Plate	Round galvalume plated steel stress plate with reinforcing ribs for use with OMG fasteners.	3" round	OMG, Inc.
11.	Parafast XHD Fasteners	Fastener for use in wood, steel or concrete decks.	#15 x 16"max. length	Siplast, Inc.
12.	OMG Olybond 500 Adhesive Fastener	Two-component, low-rise polyurethane foam adhesive	10-gallon or 1,500 ml cartridges	OMG, Inc.



EVIDENCE SUBMITTED

Test Agency/Identifier	Name	<u>Report</u>	<u>Date</u>
FM Approvals	FM 4470	3009110	06/04/01
	FM 4470	3011494	08/22/01
	FM 4470	3045166	07/24/12
	FM 4470	3041769	05/26/11
	FM 4470	3048066	04/13/15
	FM 4450	3037540	10/20/10
	FM 4470	3041005	05/31/11
	FM 4470	3038278	11/18/11
	FM 4470	3023079	05/12/06
	FM 4470	3018923	12/12/05
	FM 4470	3023545	12/10/06
	FM 4470	3026653	05/24/06
	FM 4470	3033854	01/16/09
Trinity-ERD	TAS 117	C8500SC.11.07	11/30/07
PRI Construction Materials	ASTM D3019	SRI-101-02-01	02/17/17
Technologies LLC	ASTM D 6083	SRI-101-02-02	04/21/17
	ASTM D 6163	SRI-104-02-01	01/25/18
	ASTM D 6164	SRI-105-02-02	01/03/18
	ASTM D 6163	SRI-106-02-01	01/03/18
	ASTM D 6163	SRI-116-02-02.1	08/15/18
	ASTM D 6163	SRI-125-02-03	08/21/19
	ASTM D 6163	SRI-126-02-03	08/21/19
	ASTM D 6162	SRI-127-02-03	09/09/19

DECK STRESS ANALYSIS CALCULATIONS/REPORTS

Engineer/Agency	<u>Identifier</u>	Assemblies	Date
FM Approval Deck Limitations	N/A	C(1), C(2), C(3), C(4), C(5), C(6), C(7), C(8), C(9), C(10), C(11), C(12), C(13), D(1), D(2)	01/01/13



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Min. 22 ga., Type B, Grade 80 steel deck attached to steel supports spaced 6 ft. o.c. 5/8 puddle welds and washers fasteners spaced 6" o.c. (at the bottom flute), and with side laps attached with Buildex Teks 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(1):	All layers of insulation mechanically fast subsequently fully adhered to the roof ins		nne is
All General and Sys	tem limitations apply.		
Base Insulation Lay	er	Insulation Fasteners Table 3	Fastener Density/ft ²
Any approved Polyi Minimum 1.5" thick	socyanurate from Table 2	N/A	N/A
winning in the times	-	1 1/1	1011
Note: All layers sha Insulation panels lis of fasteners shall b	all be simultaneously fastened; see top ated are minimum sizes and dimensions be increased maintaining the same fas rd RAS 117 for insulation attachment.	layer below for fastener ; if larger panels are use	rs and density. rd, the number
Note: All layers sha Insulation panels lis of fasteners shall b	all be simultaneously fastened; see top oted are minimum sizes and dimensions be increased maintaining the same fas rd RAS 117 for insulation attachment.	layer below for fastener ; if larger panels are use	rs and density. rd, the number
Note: All layers sha Insulation panels lis of fasteners shall b Application Standar	all be simultaneously fastened; see top oted are minimum sizes and dimensions be increased maintaining the same fas rd RAS 117 for insulation attachment.	layer below for fastener ; if larger panels are use tener density. Please ref Insulation Fasteners	rs and density. d, the number fer to Roofing Fastener
Note: All layers sha Insulation panels lis of fasteners shall b Application Standar Top Insulation Laye DensDeck	all be simultaneously fastened; see top oted are minimum sizes and dimensions be increased maintaining the same fas rd RAS 117 for insulation attachment.	layer below for fastener ; if larger panels are use tener density. Please ref Insulation Fasteners Table 3 1 with 3 , 20 HT TG, 20 EG TG ad	rs and density. d, the number fer to Roofing Fastener Density/ft ² 1:1.6 ft ² thered by torch;
Note: All layers sha Insulation panels liss of fasteners shall b Application Standar Top Insulation Laye DensDeck Minimum ⁵ / ₈ " thick	All be simultaneously fastened; see top ated are minimum sizes and dimensions be increased maintaining the same fas of RAS 117 for insulation attachment. For Paradiene 20 TG, 20 TG F, 20 HV TG Paradiene 20, 20 HT, 20 HV or 20 EG a	layer below for fastener s; if larger panels are use tener density. Please ref Insulation Fasteners Table 3 1 with 3 , 20 HT TG, 20 EG TG ad adhered with approved moj	rs and density. d, the number fer to Roofing Fastener Density/ft ² 1:1.6 ft ² thered by torch; pping asphalt at
Note: All layers sha Insulation panels liss of fasteners shall be Application Standar Top Insulation Layer DensDeck Minimum ⁵ / ₈ " thick Ply Sheet:	All be simultaneously fastened; see top ated are minimum sizes and dimensions be increased maintaining the same fas of RAS 117 for insulation attachment. For Paradiene 20 TG, 20 TG F, 20 HV TG, Paradiene 20, 20 HT, 20 HV or 20 EG a an application rate of 20-25 lbs./sq. Paradiene 30 FR, 30 MW FR or 30 HT at an application rate of 20-25 lbs./sq.	layer below for fastener ; if larger panels are use tener density. Please ref Insulation Fasteners Table 3 1 with 3 , 20 HT TG, 20 EG TG ad adhered with approved moj FR adhered in approved n ; Paradiene 30 FR TG or	rs and density. d, the number fer to Roofing Fastener Density/ft ² 1:1.6 ft ² thered by torch; pping asphalt at nopping asphalt

Surfacing:Optional when granular surfaced membranes are used Required with non-granular
surfaced membranes. Install one of the following:1.400 lbs./sq. gravel in a flood coat of PA-311 or PA-311 M adhesive at an
application rate of 3 gal./sq.

2.400 lbs./sq. gravel in a flood coat of asphalt applied at a rate of 60 lbs./sq.

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



Membrane Type:	SBS Foil		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Min. 22 ga., Type B, Grade 80 steel deck attached to steel supports spaced 6 ft. o.c. 5/8 puddle welds and washers fasteners spaced 6" o.c. (at the bottom flute), and with side laps attached with Buildex Teks 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(2):	All layers of insulation mechanically fast subsequently fully adhered to the roof ins		ine is
All General and Syst	tem limitations apply.		
Base Insulation Laye	er	Insulation Fasteners Table 3	Fastener Density/ft ²
Any approved Polyis Minimum 1.5" thick	socyanurate from Table 2	N/A	N/A
Insulation panels lis of fasteners shall b	all be simultaneously fastened; see top ted are minimum sizes and dimensions e increased maintaining the same fast d RAS 117 for insulation attachment.	; if larger panels are use	d, the number
Top Insulation Laye	r	Insulation Fasteners Table 3	Fastener Density/ft ²
DensDeck Minimum ⁵ /8" thick		1 with 3	1:1.6 ft. ²
Ply Sheet:	IREX 40, IREX HT, Paradiene 20, 20 H mopping asphalt at an application rate Paradiene 20 TG, 20 TG F, 20 HV TG, 2	of 20-25 lbs./sq. or IREX	40, IREX HT,
Mamhrona	Varal Aluminum adhanad in annoused	monning conholt of an and	lightion rate of

Membrane: Veral Aluminum adhered in approved mopping asphalt at an application rate of 20-25 lbs./sq. or by torch.

Note:Refer to manufacturer's specifications for specific application requirements.Surfacing:Optional when granular surfaced membranes are used Required with non-granular

- surfaced membranes. Install one of the following: 1.400 lbs./sq. gravel in a flood coat of PA-311 or PA-311 M adhesive at an application rate of 3 gal./sq.
 - 2.400 lbs./sq. gravel in a flood coat of asphalt applied at a rate of 60 lbs./sq.

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



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Min. 22 ga., Type B, Grade 33 steel deck Buildex Traxx 5 fasteners spaced 6" o.c. attached with Buildex Traxx 1 fasteners s	(at the bottom flute), and wi	
	This Tested Assembly has been analyze evidence submitted table.	ed for allowable deck stres	s. See
System Type C(3):	All layers of insulation mechanically fast subsequently fully adhered to the roof ins		ne is
All General and Sys	tem limitations apply.		
Base Insulation Lay		Insulation Fasteners Table 3	Fastener Density/ft ²
Any approved Polyi Minimum 1.5" thick	socyanurate from Table 2	N/A	N/A
Insulation panels list of fasteners shall b	all be simultaneously fastened; see top sted are minimum sizes and dimensions be increased maintaining the same fas rd RAS 117 for insulation attachment.	; if larger panels are used	l, the number
11			
Top Insulation Laye		Insulation Fasteners Table 3	Fastener Density/ft ²
• •			
Top Insulation Laye DensDeck Prime		Table 3 2 or 4 with 3 or 5 20 HT TG or 20 EG TG ad	Density/ft ² 1:1.6 ft. ² hered by torch
Top Insulation Laye DensDeck Prime Minimum ½" thick	er Paradiene 20 TG, 20 TG F, 20 HV TG, 2 or Paradiene 20, 20 HT, 20 HV or 20 EC	Table 32 or 4 with 3 or 520 HT TG or 20 EG TG adG adhered with approved mR adhered in approved mop	Density/ft ² 1:1.6 ft. ² hered by torch opping asphalt ping asphalt at
Top Insulation Laye DensDeck Prime Minimum ½" thick Base Sheet:	Paradiene 20 TG, 20 TG F, 20 HV TG, 2 or Paradiene 20, 20 HT, 20 HV or 20 EC at an application rate of 20-25 lbs./sq. Paradiene 30 FR, 30 MW FR or 30 HT F an application rate of 20-25 lbs./sq. Parad	Table 32 or 4 with 3 or 520 HT TG or 20 EG TG adG adhered with approved mG adhered with approved mR adhered in approved mopdiene 30 FR TG or 30 HT F	Density/ft ² 1:1.6 ft. ² hered by torch opping asphalt ping asphalt at TR TG adhered
Top Insulation Laye DensDeck Prime Minimum ½" thick Base Sheet: Membrane:	Paradiene 20 TG, 20 TG F, 20 HV TG, 2 or Paradiene 20, 20 HT, 20 HV or 20 EC at an application rate of 20-25 lbs./sq. Paradiene 30 FR, 30 MW FR or 30 HT F an application rate of 20-25 lbs./sq. Parad by torch.	Table 32 or 4 with 3 or 520 HT TG or 20 EG TG adG adhered with approved mG adhered in approved mopdiene 30 FR TG or 30 HT Ffor specific application recanes are used Required wit	Density/ft ² 1:1.6 ft. ² hered by torch opping asphalt ping asphalt at FR TG adhered quirements.
Top Insulation Laye DensDeck Prime Minimum ½" thick Base Sheet: Membrane: Note:	Paradiene 20 TG, 20 TG F, 20 HV TG, 2 or Paradiene 20, 20 HT, 20 HV or 20 EC at an application rate of 20-25 lbs./sq. Paradiene 30 FR, 30 MW FR or 30 HT F an application rate of 20-25 lbs./sq. Parad by torch. Refer to manufacturer's specifications <u>Optional</u> when granular surfaced membra	Table 32 or 4 with 3 or 520 HT TG or 20 EG TG adG adhered with approved mG adhered with approved mopdiene 30 FR TG or 30 HT Ffor specific application reganes are used Required withallowing:of PA-311 or PA-311 M	Density/ft ² 1:1.6 ft. ² hered by torch opping asphalt ping asphalt at TR TG adhered quirements. h non-granular adhesive at an



Membrane Type:	SBS Foil		
• •			
Deck Type 2I:	Steel, Insulated		
Deck Description:	Min. 22 ga., Type B, Grade 80 steel deck Buildex Traxx 5 fasteners spaced 6" o.c. attached with Buildex Traxx 1 fasteners s	(at the bottom flute), and w	
	This Tested Assembly has been analyze evidence submitted table.	ed for allowable deck stres	ss. See
System Type C(4):	All layers of insulation mechanically fast subsequently fully adhered to the roof in		ne is
All General and Sys	tem limitations apply.		
Base Insulation Lay	er	Insulation Fasteners Table 3	Fastener Density/ft ²
Any approved Polyi Minimum 1.5" thick	socyanurate from Table 2	N/A	N/A
Insulation panels list of fasteners shall be	all be simultaneously fastened; see top sted are minimum sizes and dimensions be increased maintaining the same fas rd RAS 117 for insulation attachment.	s; if larger panels are use	d, the number
Top Insulation Laye	er	Insulation Fasteners Table 3	Fastener Density/ft ²
DensDeck Prime Minimum ½" thick		8, 10 or 11	1:1.6 ft. ²
Ply Sheet:	IREX 40, IREX HT, Paradiene 20, 20 H mopping asphalt at an application rate Paradiene 20 TG, 20 TG F, 20 HV TG, 2	of 20-25 lbs./sq. or IREX	40, IREX HT,
Membrane:	Veral Aluminum adhered in approved me 25 lbs./sq. or by torch.	opping asphalt at an applica	tion rate of 20-
Note:	Refer to manufacturer's specifications	for specific application re	quirements.
Surfacing:	<u>Optional</u> when granular surfaced membrases. Install one of the fo		t <u>h non-granular</u>
	1.400 lbs./sq. gravel in a flood coat application rate of 3 gal./sq.2.400 lbs./sq. gravel in a flood coat of a statement of the statement of t		
Maximum Design Pressure:	-67.5 psf. (See General Limitation #7)		



Membrane Type:	SBS/SBS Foil		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Min. 22 ga., Type B, Grade 80 steel deck attached to minimum ¹ / ₄ " steel supports spaced 6 ft. o.c. Deck secured with ITW Buildex Traxx 5 fasteners and ³ / ₄ " diameter low carbon steel flat washers outside diameter; 0.328 in. diameter center hole; 0.065 in. spaced 6" o.c. (two fasteners and washers are installed at each bearing attachment point) (at the bottom flute), and with deck side laps attached with Buildex Traxx 1 fasteners spaced at max. of 12" o.c.		
	This Tested Assembly has been analyzed evidence submitted table.	for allowable deck stres	s. See
System Type C(5):	All layers of insulation mechanically fasten subsequently fully adhered to the roof insul		ne is
All General and Sys	tem limitations apply.		
Base Insulation Lay		Insulation Fasteners Table 3	Fastener Density/ft ²
	herm W, H-Shield, ENRGY 3, Paratherm gyGuard Ultra Polyiso Insulation, Parathe		Insulation,
Minimum 2.0" thick	k	N/A	N/A
Note: All layers sha	all be simultaneously fastened; see top la	ayer below for fasteners	s and density.

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners Table 3	Fastener Density/ft ²
SECUROCK Gypsum-Fiber Roof Board Minimum ¼" thick	2 with 10 or 4 with 6 2 with 3 or 4 with 5	1:1.33 ft. ²

Primer:	SECUROCK Gypsum-Fiber Roof Board shall be primed with Siplast PA-1125 primer roller applied at a rate of 1/2-1 gallon/square.
Ply Sheet:	Paradiene 20, 20 HT, 20 HV or 20 EG adhered in approved mopping asphalt at an application rate of 20-25 lbs./sq. or Paradiene 20 TG, 20 HT TG or 20 EG TG adhered by torch.

Membrane: Paradiene 30 FR, 30 HT FR or Parafor 50 LT in approved mopping asphalt at an application rate of 20-25 lbs./sq. or 30 FR TG, 30 HT FR TG, Parafor 50 TG, or Veral Aluminum adhered by torch.

Note: Refer to manufacturer's specifications for specific application requirements.

Surfacing:Optional when granular surfaced membranes are used Required with non-granular surfaced membranes. Install one of the following:

1.400 lbs./sq. gravel in a flood coat of PA-311 or PA-311 M adhesive at an application rate of 3 gal./sq.

2.400 lbs./sq. gravel in a flood coat of asphalt applied at a rate of 60 lbs./sq.

Maximum Design Pressure:

-120 psf. (See General Limitation #7)



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Membrane Type:	SBS/SBS Foil
Deck Type 2I:	Steel, Insulated
Deck Description:	Min 22 ga., Type B, Grade 80 steel deck attached to minimum $\frac{1}{4}$ " steel supports spaced 6 ft. o.c. with ITW Buildex Traxx 5 fasteners and $\frac{3}{4}$ " diameter low carbon steel flat washers outside diameter; 0.328 in. diameter center hole; 0.065 in. spaced 6" o.c. (two fasteners and washers are installed at each bearing attachment point) (at the bottom flute), and with deck side laps attached with Buildex Traxx 1 fasteners spaced at max. of 12" o.c.
	This Tested Assembly has been analyzed for allowable deck stress. See evidence submitted table.
System Type C(6):	All layers of insulation mechanically fastened to roof deck. Membrane is subsequently fully adhered to the roof insulation.
All General and Syste	em limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener	
	Table 3	Density/ft ²	
AC Foam II, Paratherm W, H-Shield, Paratherm H, ENRGY 3, Paratherm N, EnergyGuard			
Polyiso Insulation, Paratherm G, EnergyGuard Ultra Polyiso Insulation, Paratherm G CG			
Minimum 2.0" thick	N/A	N/A	

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners	Fastener
	Table 3	Density/ft ²
SECUROCK Gypsum-Fiber Roof Board		
Minimum ¹ /4" thick	8 with 10 or 11 with 6	1:1 ft. ²

Note: Top layer shall be walked into and adhered to Insulation Panels with OMG OlyBond 500 Adhesive applied at $\frac{3}{4}$ " to 1" wide ribbons with minimum 6" o.c. spacing. Panels shall be allowed to set up then mechanically fastened using the fastener density listed above.

Primer:	The SECUROCK Gypsum-Fiber Roof Board is then primed with Siplast PA-1125 primer roller applied at a rate of 1/2-1 gallon/square.
Ply Sheet:	Paradiene 20 TG, 20 HT TG or 20 EG TG adhered by torch.
Membrane:	Paradiene 30 FR TG, 30 HT FR TG, Parafor 50 TG or Veral Aluminum adhered by torch.
Note:	Refer to manufacturer's specifications for specific application requirements.
Surfacing:	<u>Optional</u> when granular surfaced membranes are used <u>Required with non-granular</u> surfaced membranes. Install one of the following:
	1.400 lbs./sq. gravel in a flood coat of PA-311 or PA-311 M adhesive at an application rate of 3 gal./sq.2.400 lbs./sq. gravel in a flood coat of asphalt applied at a rate of 60 lbs./sq.
Maximum Design Pressure:	-150 psf. (See General Limitation #7)



Membrane Type:	SBS
Deck Type 2I:	Steel, Insulated
Deck Description:	 Min. 20 ga., Type B, Grade 33 steel deck attached to minimum ¹/₄" steel supports spaced 6 ft. o.c.
	 Min. 22 ga., Type B, Grade 33 steel deck attached to minimum ¹/₄" steel supports spaced 64" o.c.
	3. Min. 22 ga., Type B, Grade 80 steel deck attached to minimum ¹ /4" steel supports spaced 6 ft. o.c.
	Deck secured with ITW Buildex Traxx 5 fasteners and ³ / ₄ " diameter washers spaced 6" o.c. (one fastener and washer installed at each bearing attachment point), and with deck side laps attached with ITW 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(7):	All layers of insulation mechanically fastened to roof deck. Membrane is subsequently fully adhered to the roof insulation.

All General and System limitations apply.

Base Insulation Layer	Insulation Fasteners	Fastener	
	Table 3	Density/ft ²	
AC Foam II, Paratherm W, H-Shield, Paratherm H, ENRGY 3, Paratherm N, EnergyGuard			
Polyiso Insulation, Paratherm G, EnergyGuard Ultra Polyiso Insulation, Paratherm G CG			
Minimum 1.5" thick	N/A	N/A	

Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Top Insulation Layer	Insulation Fasteners Table 3	Fastener Density/ft ²
DensDeck Prime		
Minimum ¹ / ₂ " thick	4 with 6	1:1 ft. ²

Note: Stress plates shall be primed with ASTM-D41 asphaltic primer

Base Sheet:	Paradiene 20, 20 HT, 20 EG, or 20 HV base membrane is adhered to the cover board using hot asphalt applied at a minimum rate of 20 lb/sq (0.1 kg/m ²) or PA-311 LS applied with a squeegee at a rate of 1.5 gal/sq (0.61m ²) or, Paradiene 20 TG, 20 HT TG, 20 TG F, or 20 EG TG, is torch adhered to the cover board.
Membrane:	Paradiene 30 FR, or 30 HT FR adhered with hot asphalt at 20-25 lb/sq (0.1 kg/m^2) or PA-311 LS applied with a squeegee at a rate of 1.5 gal/sq (0.61m^2) or, Paradiene 30 FR TG, or 30 HT FR TG torch adhered to base sheet.
Note:	Refer to manufacturer's specifications for specific application requirements.



Surfacing:	<u>Optional</u> when granular surfaced membranes are used <u>Required with non-granular</u> surfaced membranes. Install one of the following:
	1.400 lbs./sq. gravel in a flood coat of PA-311 or PA-311 M adhesive at an application rate of 3 gal./sq.2.400 lbs./sq. gravel in a flood coat of asphalt applied at a rate of 60 lbs./sq.
Maximum Design Pressure:	-105 psf. (See General Limitation #7)



Membrane Type: Deck Type 2I: Deck Description:	SBS Steel, Insulated Minimum 22 ga., Grade 33 steel deck is #12 HWH Teks 5 fasteners and ³ / ₄ " diam fastener and washer are installed at each laps attached with #10 HWH Teks 1 fast Or Minimum 22 ga., Grade 80 steel deck is #12 HWH Teks 5 fasteners and ³ / ₄ " diam fastener and washer are installed at each laps attached with #10 HWH Teks 1 fast This Tested Assembly has been analyz	eter steel washers spaced 6 bearing attachment point) v eners spaced at max. of 12" secured to supports spaced eter steel washers spaced 6 bearing attachment point) v eners spaced at max. of 12"	 " o.c. (one vith deck side ' o.c. 6 ft. o.c. with " o.c. (one vith deck side ' o.c.
System Type C(8):	evidence submitted table. All layers of insulation mechanically fas	tened to roof deck. Membra	ine is
	subsequently fully adhered to the roof insulation.		
All General and Syste	m limitations apply.		
Base Insulation Layer Insulation Fasteners Table 3		Fastener Density/ft ²	
AC Foam II, Paratherm W, H-Shield, Paratherm H, ENRGY 3, Paratherm N, EnergyGuard Polyiso Insulation, Paratherm G, EnergyGuard Ultra Polyiso Insulation, Paratherm G CG			Guard
Note: All layers shal Insulation panels liste fasteners shall be i	l be simultaneously fastened; see top ed are minimum sizes and dimensions; ncreased maintaining the same faste l RAS 117 for insulation attachment.	layer below for fasteners if larger panels are used, t	and density. the number of
Top Insulation Layer		Insulation Fasteners	Fastener
SECUROCK Gypsur Minimum ½" thick	n-Fiber Roof Board	Table 3 4 with 5 or 7	Density/ft ² 1:1 ft. ²
Base Sheet:	One ply of Paradiene 20 TG, 20 HT TG adhered to the cover board. Minimum 3 fused with a torch.		
Membrane:	Paradiene 30 FR TG, 30 HT FR TG or 30 FR TG BW is torch adhered to the base ply. Minimum 3" wide side laps are heat fused with a torch.		
Maximum Design Pressure:	-82.5 psf. – On SS Grade 33 steel deck -112.5 psf. – On SS Grade 80 steel deck		



Membrane Type: Deck Type 21: Deck Description:	SBS Steel, Insulated Minimum 22 ga., Grade 33 steel deck is se #12 HWH Teks 5 fasteners and ³ / ₄ " diamet fastener and washer are installed at each be laps attached with #10 HWH Teks 1 faster Or Minimum 22 ga., Grade 80 steel deck is se #12 HWH Teks 5 fasteners and ³ / ₄ " diamet fastener and washer are installed at each be laps attached with #10 HWH Teks 1 faster	eer steel washers spaced 6" earing attachment point) wi hers spaced at max. of 12" of ecured to supports spaced 6 eer steel washers spaced 6" earing attachment point) wi	o.c. (one th deck side o.c. ft. o.c. with o.c. (one th deck side
	This Tested Assembly has been analyzed evidence submitted table.	d for allowable deck stress	s. See
System Type C(9):	subsequently fully adhered to the roof insu	lation.	
All General and Syste	em limitations apply.		
Table 3DensAC Foam II, Paratherm W, H-Shield, Paratherm H, ENRGY 3, Paratherm N, EnergyGuardPolyiso Insulation, Paratherm G, EnergyGuard Ultra Polyiso Insulation, Paratherm G CG			
Note: All layers shall be simultaneously fastened; see top layer below for fasteners and density. Insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Please refer to Roofing Application Standard RAS 117 for insulation attachment.			
Top Insulation Laye		Insulation Fasteners Table 3	Fastener Density/ft ²
SECUROCK Cemer Minimum ½" thick	nt Roof Board	4 with 5 or 7	1:1 ft. ²
Base Sheet:	One ply of Paradiene 20 TG, 20 HT TG, 20 EG TG, or 20 HV TG is torch adhered to the cover board. The cover board is primed with a primer meeting ASTM D-41 standards at 0.5 gal/sq. Minimum 3" wide side laps are heat fused with a torch.		g ASTM D-41
Membrane:	Paradiene 30 FR TG, 30 HT FR TG, or 30 FR TG BW, is torch adhered to the base ply. Minimum 3" wide side laps are heat fused with a torch.		adhered to the
Maximum Design Pressure:	-82.5 psf. – On SS Grade 33 steel deck (S -112.5 psf. – On SS Grade 80 steel deck (1



М	CDC		
Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 ga., Grade 33 steel deck is #12 HWH Teks 5 fasteners and $\frac{3}{4}$ " diam fastener and washer are installed at each laps attached with #10 HWH Teks 1 fast	eter steel washers spaced 6 bearing attachment point)	" o.c. (one with deck side
	Or		
	Minimum 22 ga., Grade 80 steel deck is #12 HWH Teks 5 fasteners and ³ / ₄ " diam fastener and washer are installed at each laps attached with #10 HWH Teks 1 fast	eter steel washers spaced 6 bearing attachment point)	" o.c. (one with deck side
	This Tested Assembly has been analyz evidence submitted table.	ed for allowable deck stro	ess. See
System Type C(10):	All layers of insulation mechanically fas subsequently fully adhered to the roof in		rane is
All General and Syste	em limitations apply.		
Base Insulation Laye	r erm W, H-Shield, Paratherm H, ENRGY	Insulation Fasteners Table 3 V 3. Paratherm N. Energy	Fastener Density/ft ² Guard
	aratherm G, EnergyGuard Ultra Polyis		
Insulation panels list fasteners shall be i	ll be simultaneously fastened; see top ed are minimum sizes and dimensions; ncreased maintaining the same faste d RAS 117 for insulation attachment.	if larger panels are used,	the number of
Top Insulation Layer	·	Insulation Fasteners	Fastener

Top Insulation Laye		Table 3	Density/ft ²
DensDeck Prime or S Minimum ½" thick	SECUROCK Gypsum-Fiber Roof Board	4 with 5 or 7	1:1 ft. ²
Base Sheet:	One ply of Paradiene 20, 20 FR, 20 H membrane is fully adhered to the cover bo the substrate at 2.0 gal/sq. with a squeeged the base sheet are sealed with Siplast SFT	oard with Siplast SFT adhe e. Minimum 3" wide side a	sive applied to
Ply Sheet:	One ply of Paradiene 20, 20 FR, 20 H membrane is fully adhered to the base pl the substrate at 2.0 gal/sq. with a squeegee the ply sheet are sealed with PA-311 or PA	ly with PA-311 or PA-311 e. Minimum 3" wide side a	M applied to
Membrane:	Paradiene 30 FR or 30 HT FR is fully a PA-311 M applied to the substrate at 1. wide side and end laps of the membrane a	5 gal/sq. with a squeegee.	Minimum 3"
Maximum Design Pressure:	-82.5 psf. – On SS Grade 33 steel deck (S -135 psf. – On SS Grade 80 steel deck (Se	· · · · · · · · · · · · · · · · · · ·	

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Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:	Minimum 22 ga., Grade 33 steel deck is o.c. with Traxx 5 fasteners and ³ / ₄ " diamonds fasteners and washer are installed at each laps attached with Traxx 1 fasteners space Or Minimum 22 ga., Grade 80 steel deck is o.c. with Traxx 5 fasteners and ³ / ₄ " diamonds fasteners and washer are installed at each laps attached with Traxx 1 fasteners space	eter steel washers spaced 6' h bearing attachment point) ed at max. of 12" o.c. secured to supports spaced eter steel washers spaced 6' h bearing attachment point)	'o.c. (two with deck side 6 ft. 'o.c. (two
	This Tested Assembly has been analyz evidence submitted table.	zed for allowable deck stro	ess. See
System Type C(11):	All layers of insulation mechanically fas subsequently fully adhered to the roof in		ane is
All General and System	limitations apply.		
Base Insulation Layer		Insulation Fasteners Table 3	Fastener Density/ft ²
AC Foam II, Paratherm W, H-Shield, Paratherm H, ENRGY 3, Paratherm N, EnergyGuard Polyiso Insulation, Paratherm G, EnergyGuard Ultra Polyiso Insulation, Paratherm G CG Minimum 1.5" thick N/A N/A			
Insulation panels listed fasteners shall be in	be simultaneously fastened; see top l l are minimum sizes and dimensions; if creased maintaining the same faster RAS 117 for insulation attachment.	f larger panels are used, t	the number of
Top Insulation Layer		Insulation Fasteners Table 3	Fastener Density/ft ²
SECUROCK Gypsum Minimum ½" thick	-Fiber Roof Board	7 with 8 or 10	1:1 ft. ²
Base Sheet:	One ply of Paradiene 20, 20 FR, 20 HT, 20 HT FR, 20 EG or 20 HV base membrane is fully adhered to the cover board with Siplast SFT adhesive applied to the substrate at 2.0 gal/sq. with a squeegee. Minimum 3" wide side and end laps of the base sheet are sealed with Siplast SFT adhesive.		
Membrane:	Paradiene 30 FR, 30 HT FR, Paradiene 30 or Paradiene 30 HT is fully adhered to the ply sheet with Siplast SFT adhesive applied to the substrate at a rate of 2.0 gal/sq. with a squeegee. Minimum 3" wide side and end laps of the membrane are sealed with SFT Adhesive.		
	gal/sq. with a squeegee. Minimum 3" wi		



Membrane Type: Deck Type 21: Deck Description:	 SBS Steel, Insulated Minimum 22 ga., Grade 33 steel deck is secured to supports spaced 6 ft. o.c. with Traxx 5 fasteners and ³/₄" diameter steel washers spaced 6" o.c. fasteners and washer are installed at each bearing attachment point) with laps attached with Traxx 1 fasteners spaced at max. of 12" o.c. Or Minimum 22 ga., Grade 80 steel deck is secured to supports spaced 6 ft. o.c. with Traxx 5 fasteners and ³/₄" diameter steel washers spaced 6 ft. o.c. with Traxx 5 fasteners and ³/₄" diameter steel washers spaced 6 ft. o.c. with Traxx 1 fasteners and ³/₄" diameter steel washers spaced 6 ft. o.c. fasteners and washer are installed at each bearing attachment point) with laps attached with Traxx 1 fasteners spaced at max. of 12" o.c. 	deck side
System Type C(12):	This Tested Assembly has been analyzed for allowable deck stress. Sevidence submitted table.All layers of insulation mechanically fastened to roof deck. Membrane is subsequently fully adhered to the roof insulation.	
All General and Syste	em limitations apply.	
		astener ensity/ft ²
AC Foam II, Paratherm W, H-Shield, Paratherm H, ENRGY 3, Paratherm N, EnergyGuard Polyiso Insulation, Paratherm G, EnergyGuard Ultra Polyiso Insulation, Paratherm G CG Minimum 1.5" thick N/A N/A		
Insulation panels listo fasteners shall be inc	all be simultaneously fastened; see top layer below for fasteners and de ed are minimum sizes and dimensions; if larger panels are used, the nu reased maintaining the same fastener density. Please refer to Roofing d RAS 117 for insulation attachment.	umber of
Top Insulation Layer		astener ensity/ft²
DensDeck Prime Minimum ½" thick	7 with 8 or 10	1:1 ft. ²
Base Sheet:	One ply of Paradiene 20, 20 FR, 20 HT, 20 HT FR, 20 EG or 20 HV base membrane is fully adhered to the cover board with Siplast SFT adhesive applied to the substrate at 2.0 gal/sq. with a squeegee. Minimum 3" wide side and end laps of the base sheet are sealed with Siplast SFT adhesive.	
Membrane:	ane: Paradiene 30 FR, 30 HT FR, Paradiene 30 or Paradiene 30 HT is fully adhered to the ply sheet with Siplast SFT adhesive applied to the substrate at a rate of 2.0 gal/sq. with a squeegee. Minimum 3" wide side and end laps of the membrane are sealed with SFT Adhesive.	
Maximum Design Pressure:	-82.5 psf On SS Grade 33 steel deck (See General Limitation #7) -90 psf On SS Grade 80 steel deck (See General Limitation #7)	



Membrane Type:	SBS		
Deck Type 2I:	Steel, Insulated		
Deck Description:			" o.c. (two
	This Tested Assembly has been analyzevidence submitted table.	zed for allowable deck stro	ess. See
System Type C(13):	All layers of insulation mechanically fastened to roof deck. Membrane is subsequently fully adhered to the roof insulation.		
All General and Syste	m limitations apply.		
Base Insulation Layer		Insulation Fasteners Table 3	Fastener Density/ft ²
AC Foam II, Paratherm W, H-Shield, Paratherm H, ENRGY 3, Paratherm N, EnergyGuard Polyiso Insulation, Paratherm G, EnergyGuard Ultra Polyiso Insulation, Paratherm G CG Minimum 1.5" thick N/A N/A			
Insulation panels list fasteners shall be in	all be simultaneously fastened; see top ed are minimum sizes and dimensions; ncreased maintaining the same faster I RAS 117 for insulation attachment.	if larger panels are used,	the number of
Top Insulation Layer		Insulation Fasteners Table 3	Fastener Density/ft ²
SECUROCK Gypsum-Fiber Roof Board Minimum ½" thick		7 with 8 or 10	1:1 ft. ²
Base Sheet: One ply of Paradiene 20, 20 FR, 20 HT, 20 HT FR, 20 EG or 20 HV base membrane is fully adhered to the cover board with Siplast PA-311 Cold Adhesive or Siplast PA-311M Cold Adhesive applied to the substrate at a rate of 1.5 - 2.0 gal/sq. with a squeegee. Minimum 3" wide side and end laps of the base sheet are sealed with Siplast PA-311 Cold Adhesive or Siplast PA-311M Cold Adhesive.		Cold Adhesive of 1.5 - 2.0 base sheet are	

	sealed with Siplast FA-511 Cold Adhesive of Siplast FA-511W Cold Adhesive.
Membrane:	Paradiene 30 FR, 30 HT FR, Paradiene 30 or Paradiene 30 HT is fully adhered to the ply sheet with Siplast PA-311 Cold Adhesive or Siplast PA-311M Cold Adhesive applied to the substrate at a rate of 1.5 - 2.0 gal/sq. with a squeegee. Minimum 3" wide side and end laps of the membrane are sealed with Siplast PA-311 Cold Adhesive or Siplast PA-311M Cold Adhesive.

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



Membrane Type:	SBS/SBS Foil
Deck Type 2I:	Steel, Insulated
Deck Description:	 Min. 18 ga., Type B, Grade 33 steel deck attached to minimum ¹/₄" steel supports spaced 6 ft. o.c.
	 Min. 20 ga., Type B, Grade 33 steel deck attached to minimum ¹/₄" steel supports spaced 63" o.c.
	 Min. 22 ga., Type B, Grade 33 steel deck attached to minimum ¹/₄" steel supports spaced 57" o.c.
	 Min. 22 ga., Type B, Grade 80 steel deck attached to minimum ¹/₄" steel supports spaced 6 ft. o.c.
	Deck secured with ITW Buildex Traxx 5 fasteners and $\frac{3}{4}$ " diameter low carbon steel flat washers outside diameter; 0.328 in. diameter center hole; 0.065 in. spaced 6" o.c. (two fasteners and washers are installed at each bearing attachment point) (at the bottom flute), and with deck side laps attached with Buildex Traxx 1 fasteners spaced at max. of 12" o.c.
	This Tested Assembly has been analyzed for allowable deck stress. See evidence submitted table.
System Type D:	All layers of insulation to be loose laid on roof deck. Base sheet is mechanically attached though all layers of insulation to the roof deck. Membrane is subsequently fully adhered to the roof insulation.
All General and Syste	m limitations apply.
Base Insulation Laye	r Insulation Fasteners Fastener

Base Insulation Layer	Insulation Fasteners	Fastener
	Table 3	Density/ft ²
AC Foam II, Paratherm W, H-Shield, Paratherm H, ENRG	Y 3, Paratherm N, Energ	yGuard
Polyiso Insulation, Paratherm G, EnergyGuard Ultra Polyiso Insulation, Paratherm G CG		
Minimum 1.5" thick	N/A	N/A
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 shall have preliminary attachment prior to the installation of the base sheet at a minimum application rate of five (5) fasteners per 4 x 8 ft. board. All layers of insulation and base sheet shall be simultaneously fastened. See base/anchor sheet below for fasteners and density.

Base Sheet	Paradiene 20 PR is mechanically fastened through insulation layers to the deck with OMG XHD fasteners and OMG 2-3/4" Super XHD barbed stress plates spaced 12" o.c. through the 4" lap and spaced 12" o.c. along one staggered intermediate field row in the field of the sheet. The side laps of the base membrane were torch adhered prior to fastening through the side laps.
Ply Sheet:	Paradiene 20 TG, 20 HT TG or 20 EG TG adhered by torch.
Membrane:	Paradiene 30 FR TG, 30 HT FR TG, Parafor 50 TG or Veral Aluminum adhered by torch.
Note:	Refer to manufacturer's specifications for specific application requirements.



Surfacing:	<u>Optional</u> when granular surfaced membranes are used <u>Required with non-granular</u> surfaced membranes. Install one of the following:
	1.400 lbs./sq. gravel in a flood coat of PA-311 or PA-311 M adhesive at an application rate of 3 gal./sq.2.400 lbs./sq. gravel in a flood coat of asphalt applied at a rate of 60 lbs./sq.
Maximum Design Pressure:	-135 psf. (See General Limitation #7)



STEEL DECK SYSTEM LIMITATIONS:

- If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 137, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered 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 to Roofing Application Standard RAS 111 and applicable wind load requirements.
- 9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). (When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)
- 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



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