



**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
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**CONTRACTOR LICENSING SECTION**  
(305) 375-2527 FAX (305) 375-2558

**CONTRACTOR ENFORCEMENT DIVISION**  
(305) 375-2966 FAX (305) 375-2908

**PRODUCT CONTROL DIVISION**  
(305) 375-2902 FAX (305) 372-6339

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Carlisle SynTec Incorporated**  
**P. O. Box 7000**  
**Carlisle, PA 17013**

Your application for Notice of Acceptance (NOA) of:

**Single -Ply Roofing Membrane-Wood Deck**

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**ACCEPTANCE NO.: 00-0725.06**  
**EXPIRES: 08/31/2003**

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL  
CONDITIONS  
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director  
Miami-Dade County  
Building Code Compliance Office

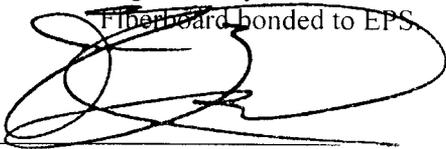
**APPROVED: 08/31/2000**

**ROOFING SYSTEM APPROVAL**

<u>Category:</u>	Roofing	Approval Date: <b><u>August 31, 2000</u></b>
<u>Sub-Category:</u>	Single Ply	Expiration Date: <b><u>August 31, 2003</u></b>
<u>Material:</u>	TPO	
<u>Deck Type:</u>	Wood	
<u>Maximum Design Pressure</u>	-45 psf	
<u>Fire Classification:</u>	See General Limitation #1	

**TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:**

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Sure-Weld	various	PA 131	Reinforced white or colored TPO membrane.
Sure-Weld GSD	various	PA 131	Reinforced white or colored FR TPO membrane.
Carlisle Foamular Durapink Insulation	various	PA 110	Extruded Polystyrene for white or black mechanically fastened roof systems.
Carlisle Foamular 1/2" Board	various	PA 110	Extruded Polystyrene recovery board.
Carlisle Foamular 150, 250, 400, 404, 600	various	PA 110	Extruded Polystyrene insulation
CCW 702 Primer	various	PA 110	Solvent-Based Primer
CCW 702LT Primer	various	PA 110	Low-Temperature Solvent-Based Primer
CCW 714 Primer	various	PA 110	Water-Based Primer
CCW 725 Vapor Barrier	various	PA 110	40 mil Vapor Barrier
Fast 100 Adhesive	various	PA 110	Spray Polyurethane Adhesive
Fast 100-P Adhesive	various	PA 110	Spray Polyurethane Adhesive
Fast 102 Adhesive	various	PA 110	Spray Polyurethane Adhesive
Polyisocyanurate HP-H	various	PA 110	Polyisocyanurate roof insulation.
Polyisocyanurate HP-W	various	PA 110	Polyisocyanurate roof insulation.
Polyisocyanurate HP	various	PA 110	Polyisocyanurate roof insulation.
Polyisocyanurate HP-N	various	PA 110	Polyisocyanurate roof insulation.
Sure Seal EPS Insulation	various	PA 110	Expanded Polystyrene.
Sure-Weld Bonding Adhesive	various	PA 110	Solvent-based bonding adhesive.
Sure-Seal Insulation Plates	2 7/8" dia.	PA 114	Metal plates used for insulation securement.
Sure-Seal EPS/Fiberboard	various	PA 110	High Density Wood Fiberboard bonded to EPS.

  
 Frank Zuloaga, RRC  
 Roofing Product Control Examiner

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Sure-Seal HP Recovery Board	various	PA 110	High Density Wood Fiberboard.
Piranha Seam Plates	2" dia.	PA 114	Metal plates used for membrane securement with Sure-Seal fasteners.
Sure-Seal HP Fasteners	#14	PA 114	Threaded fasteners used for insulation securement in steel, wood and concrete decks.
Sure-Seal HP-X Fasteners	#15	PA 114	Threaded fasteners used for insulation and membrane securement in steel, wood and concrete decks.

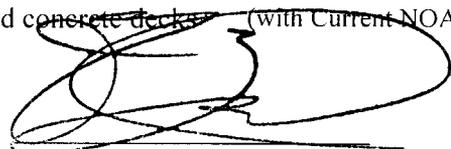
**TRADE NAMES OF PRODUCTS MANUFACTURED BY OTHERS:**

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Hy Therm	various	PA 110	Polyisocyanurate foam insulation	Apache Products Co. (with Current NOA)
Pyrox	various	PA 110	Polyisocyanurate foam insulation	Apache Products Co. (with Current NOA)
White Line	various	PA 110	Polyisocyanurate foam insulation	Apache Products Co. (with Current NOA)
ACFoam II	various	PA 110	Polyisocyanurate foam insulation	Atlas Energy Products (with Current NOA)
Hy-Therm Stable R	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp. (with Current NOA)
Star AP	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp. (with Current NOA)
Star SP	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp. (with Current NOA).
Tristar	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp. (with Current NOA)
Dekfast Fasteners #12		PA 114	Insulation fastener for steel and wood decks.	Construction Fasteners Inc. (with Current NOA)
Dekfast Fasteners #14		PA 114	Insulation fastener for steel and concrete decks.	Construction Fasteners Inc. (with Current NOA)
Dekfast Fasteners #15		PA 114	Insulation fastener for steel and concrete.	Construction Fasteners, Inc. (with Current NOA)
Dekfast Hex Plate	2 7/8" x 3 1/4"	PA 114	Galvalume hex stress plate.	Construction Fasteners Inc. (with Current NOA)



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<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Styrofoam	2' x 8'	PA 110	Extruded polystyrene insulation	Dow (with Current NOA)
ISO 95+ GL, 95+ GW		PA 110	Polyisocyanurate foam insulation	Firestone (with Current NOA)
Asphalt Primer		ASTM D 41	Asphalt Primer	generic
Sturdi-Top	various	PA 110	Wood fiber insulation board.	Georgia Pacific (with Current NOA)
Ultra/M-II	various	PA 110	Polyisocyanurate foam insulation	Homasote Co. (with Current NOA)
Insta-Stick	various	PA 110	Polyisocyanurate foam insulation	Flexible Products (with Current NOA)
#12 Roofgrip		PA 114	Insulation fastener	ITW Buildex (with Current NOA)
#14 Roofgrip		PA 114	Insulation fastener	ITW Buildex (with Current NOA)
E'NERG'Y PSI-25	various	PA 110	Polyisocyanurate foam insulation	NRG Barriers, Inc. (with Current NOA)
E'NRG'Y-2	various	PA 110	Polyisocyanurate foam insulation	NRG Barriers, Inc. (with Current NOA)
CD-10 Fastener		PA 114	Insulation fastener	Olympic Manufacturing Group, Inc. (with Current NOA)
Con-Tite		PA 114	Concrete deck insulation fastener	Olympic Manufacturing Group, Inc. (with Current NOA)
Lite-Deck Fastener		PA 114	Insulation fastener	Olympic Manufacturing Group, Inc. (with Current NOA)
N.T.B. Magnum		PA 114	Glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks.	Olympic Manufacturing Group, Inc. (with Current NOA)
Olympic Fastener #14		PA 114	Insulation fastener	Olympic Manufacturing Group, Inc. (with Current NOA)
Olympic Fastener #12		PA 114	Insulation fastener	Olympic Manufacturing Group, Inc. (with Current NOA)
Multi-Max FA	various	PA 110	Polyisocyanurate foam insulation	RMAX (with Current NOA)
HD Insul-Fixx Fastener		PA 114	Insulation fastener for use in steel and concrete decks	SFS/Stadler (with Current NOA)

  
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 Roofing Product Control Examiner

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Insul-Fixx Fastener		PA 114	Insulation fastener for steel and wood decks	SFS/Stadler (with Current NOA)
Insul-Fixx S	3" square	PA 114	3" square Galvalume AZ55 stress plate	SFS/Stadler (with Current NOA)
Insul-Fixx P	3" round	PA 114	3" round polyethylene stress plate	SFS/Stadler (with Current NOA)
Isofast Plate	various	PA 114	Square or oblong Galvalume steel plates for use with Isofast fasteners	SFS/Stadler (with Current NOA)
Isofast Fasteners		PA 114	Insulation fastener for steel and wood decks	SFS/Stadler (with Current NOA)
Rawl Fasteners #14		PA 114	Insulation fastener for use in steel, wood or concrete	The Rawlplug Company Inc. (with Current NOA)
Rawl Drive		PA 114	Insulation fastener and steel and plastic stress plate for concrete deck	The Rawlplug Company Inc. (with Current NOA)
Rawl Fasteners #12		PA 114	Insulation fastener for steel and wood decks	The Rawlplug Company Inc. (with Current NOA)
Rawl Spike		PA 114	Insulation fastener and steel and plastic stress plate for concrete deck	The Rawlplug Company Inc. (with Current NOA)
Rawl Speed-Lock Toggle Bolt		PA 114	Insulation fastener assembly	The Rawlplug Company Inc. (with Current NOA)
Rawlite		PA 114	Insulation fastener for cementitious and gypsum decks	The Rawlplug Company Inc. (with Current NOA)
Tru-Fast CF Fasteners		PA 114	Insulation fastener for concrete decks	Tru-Fast (with Current NOA)
Tru-Fast Ultra		PA 114	Stainless Steel fastener for use in steel, wood and concrete decks	Tru-Fast (with Current NOA)
Tru-Fast Plastic Plate	3.04" round	PA 114	3.04" round polyethylene plastic plate	Tru-Fast (with Current NOA)
Tru-Fast DL		PA 114	Glass reinforced nylon fastener for use in tectum or gypsum decks	Tru-Fast (with Current NOA)
Tru-Fast TP		PA 114	Insulation fastener for use in steel or wood decks	Tru-Fast (with Current NOA)
Tru-Fast HD		PA 114	Insulation fastener for use in wood, steel or concrete decks	Tru-Fast (with Current NOA)
Tru-Fast MP-3	3.23" round	PA 114	3.23" round Galvalume AZ50 steel plate	Tru-Fast (with Current NOA)
Tru-Fast DP		PA 114	Insulation fastener for use in steel or wood decks	Tru-Fast (with Current NOA)

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Insulcel		PA 110	Cellular insulating concrete system	Siplast (with Current NOA)
Structodeck	various	PA 110	High Density Wood Fiber insulation board.	Wood Fiber Industries

**EVIDENCE SUBMITTED:**

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Description</u>	<u>Date</u>
Architectural Testing Inc.	ATI-37490.01	ASTM D 2137	7/7/00
Factory Mutual Research Corporation	3Z9A1.AM	FMRC Standard 4470	10/15/97
Factory Mutual Research Corporation	Approval Guide Excerpt	Wind Uplift Classification Listings	5/00
Factory Mutual Research Corporation	Letter	Wind Uplift Classification	5/2/00
Celotex Corporation Testing Services	520257	PA 131-95	4/19/00
SGS U.S. Testing Company Incorporated	131248-R2	ASTM D 1149	1/6/00



**SYSTEMS:**

- Membrane Type:** Single Ply, Thermoplastic, TPO, Reinforced
- Deck Type II:** Wood, Insulated, and New Construction, Re-roof
- Deck Description:** 1 9/32" or greater plywood or wood plank
- System Type C:** All layers of insulation simultaneously attached; membrane fully adhered.

**All General and System Limitations apply.**

<u>Insulation Base Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
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**One of the following covered with the boards listed in Top Layer**

Approved Type(s): **Extruded Polystyrene**

Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A
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Approved Type(s): **Energy-Lok, ACFoam - II**

Minimum: 1" x 3' x 4'	N/A	N/A	N/A	N/A
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Approved Type(s): **Perlite**

Minimum: 3/4" x 2' x 4'	N/A	N/A	N/A	N/A
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**Note: All insulation layers shall be simultaneously attached; see Top Layer or Base or Top Layer for fasteners and densities. Single and multiple layers of insulation can be adhered with FAST Adhesive in a full coverage application. Please refer to Miami Dade County Roofing Application Standard RAS 117 for insulation attachment.**

<u>Insulation Base or Top Layer</u>	<u>Fastener Type</u>	<u>Fastening Detail No.</u>	<u>Fasteners Per Board</u>	<u>Fastener Density</u>
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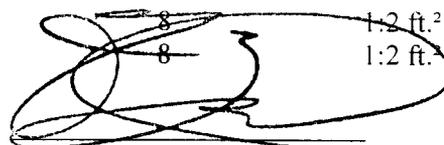
**One or more layers of the following:**

Approved Type(s): **ACFoam II**

Minimum: 1.5" x 3' x 4'	Sure-Seal HP Fastener	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Olympic Stainless #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Olympic #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Rawl #12, 14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.3" x 3' x 4'	Isofast #10, #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 4' x 4'	Sure-Seal HP Fastener	[3]	5	1:3.2 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Sure-Seal HP Fastener	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Insulfixx HD S	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Tru-Fast Ultra Stainless	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Tru-Fast #10, #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Insta-Lock	[3]	8	1:2 ft. <sup>2</sup>

Approved Type(s): **E'NRG'Y-2, PSI-25**

Minimum: 1.4" x 4' x 4'	Insulfixx SP	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	RoofGrip #12, #14	[3]	8	1:2 ft. <sup>2</sup>



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Minimum:	1.4" x 4' x 4'	Sure-Seal HP Fastener	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.4" x 4' x 4'	Dekfast #12, #14, #15	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.4" x 4' x 4'	Perma-Fastener #12, #14, #15	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.4" x 4' x 4'	Olympic Stainless #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.4" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.4" x 4' x 4'	Rawl #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.4" x 4' x 4'	Tru-Fast Ultra Stainless	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.4" x 4' x 4'	Tru-Fast #10, #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	Insulfixx SP	[3]	4	1:4 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	RoofGrip #12, #14	[3]	4	1:4 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	Sure-Seal HP Fastener	[3]	4	1:4 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	Dekfast #12, #14, #15	[3]	4	1:4 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	Perma-Fastener #12, #14, #15	[3]	4	1:4 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	Olympic Stainless #12, #14	[3]	4	1:4 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	Olympic #12, #14	[3]	4	1:4 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	Rawl #12, #14	[3]	4	1:4 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	Tru-Fast Ultra Stainless	[3]	4	1:4 ft. <sup>2</sup>
Minimum:	2" x 4' x 4'	Tru-Fast #10, #12, #14	[3]	4	1:4 ft. <sup>2</sup>

Approved Type(s): **HP Recovery**

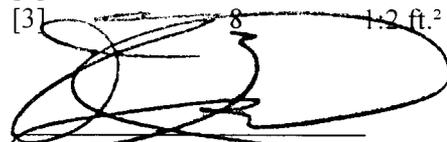
Minimum:	½" x 4' x 4'	Sure-Seal HP Fastener	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1" x 2' x 4'	Insulfixx HD	[1]	4	1:2 ft. <sup>2</sup>
Minimum:	1" x 2' x 4'	RoofGrip #12, #14	[1]	4	1:2 ft. <sup>2</sup>
Minimum:	1" x 2' x 4'	Sure-Seal HP Fastener	[1]	4	1:2 ft. <sup>2</sup>
Minimum:	1" x 2' x 4'	Dekfast #12, #14, #15	[1]	4	1:2 ft. <sup>2</sup>
Minimum:	1" x 2' x 4'	Olympic Stainless #12, #14	[1]	4	1:2 ft. <sup>2</sup>
Minimum:	1" x 2' x 4'	Olympic #12, #14	[1]	4	1:2 ft. <sup>2</sup>
Minimum:	1" x 2' x 4'	Rawl #12, #14	[1]	4	1:2 ft. <sup>2</sup>
Minimum:	1" x 2' x 4'	Tru-Fast Ultra Stainless	[1]	4	1:2 ft. <sup>2</sup>
Minimum:	1" x 2' x 4'	Tru-Fast #10, #12, #14	[1]	4	1:2 ft. <sup>2</sup>

Approved Type(s): **High Density Fiberboard**

Minimum:	¾" x 4' x 4'	RoofGrip #12, #14	[3]	6	1:2.67 ft. <sup>2</sup>
Minimum:	¾" x 4' x 4'	Dekfast #12, #14, #15	[3]	6	1:2.67 ft. <sup>2</sup>
Minimum:	¾" x 4' x 4'	Olympic Stainless #12, #14	[3]	6	1:2.67 ft. <sup>2</sup>
Minimum:	¾" x 4' x 4'	Olympic #12, #14	[3]	6	1:2.67 ft. <sup>2</sup>
Minimum:	¾" x 4' x 4'	Rawl #12, #14	[3]	6	1:2.67 ft. <sup>2</sup>
Minimum:	¾" x 4' x 4'	Tru-Fast Ultra Stainless	[3]	6	1:2.67 ft. <sup>2</sup>
Minimum:	¾" x 4' x 4'	Tru-Fast #10, #12, #14	[3]	6	1:2.67 ft. <sup>2</sup>

Approved Type(s): **WHITELINE, PYROX, AP**

Minimum:	1.2" x 4' x 4'	Insulfixx SP	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.2" x 4' x 4'	RoofGrip #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.2" x 4' x 4'	Sure-Seal HP Fastener	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.2" x 4' x 4'	Dekfast #12, #14, #15	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.2" x 4' x 4'	Perma-Fastener #12, #14, #15	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.2" x 4' x 4'	Olympic Stainless #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.2" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.2" x 4' x 4'	Rawl #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.2" x 4' x 4'	Tru-Fast Ultra Stainless	[3]	8	1:2 ft. <sup>2</sup>
Minimum:	1.2" x 4' x 4'	Tru-Fast #10, #12, #14	[3]	8	1:2 ft. <sup>2</sup>

  
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Approved Type(s): **ISO 95+GL, HF, Rhoflex GL, HF**

Minimum: 1.4" x 3' x 4'	Insulfixx SP	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.4" x 3' x 4'	RoofGrip #12, #14	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.4" x 3' x 4'	Perma-Fastener #12, #14, #15	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.4" x 3' x 4'	Olympic Stainless #12, #14	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.4" x 3' x 4'	Olympic #12, #14	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.4" x 3' x 4'	Rawl #12, #14	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.4" x 3' x 4'	Tru-Fast Ultra Stainless	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.4" x 3' x 4'	Tru-Fast #10, #12, #14	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Insulfixx SP	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	RoofGrip #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Dekfast #12, #14, #15	[2]	6	1:2 ft. <sup>2</sup>

Approved Type(s): **Multi-Max FA**

Minimum: 1.2" 3' x 4'	Insulfixx SP	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" 3' x 4'	RoofGrip #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" 3' x 4'	Dekfast #12, #14, #15	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" 3' x 4'	Perma-Fastener #12, #14, #15	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" 3' x 4'	Olympic Stainless #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" 3' x 4'	Olympic #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" 3' x 4'	Rawl #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" 3' x 4'	Tru-Fast Ultra Stainless	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" 3' x 4'	Tru-Fast #10, #12, #14	[2]	6	1:2 ft. <sup>2</sup>

Approved Type(s): **ACFoam Composite, Rhoflex Composite, Fesco Foam**

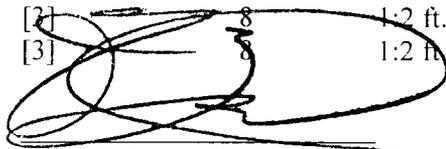
Minimum: 1.5" x 3' x 4'	Insulfixx SP	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	RoofGrip #12, #14	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Sure-Seal HP Fastener	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Dekfast #12, #14, #15	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Perma-Fastener #12, #14, #15	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Olympic Stainless #12, #14	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Olympic #12, #14	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Rawl #12, #14	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Tru-Fast Ultra Stainless	[2]	4	1:3 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Tru-Fast #10, #12, #14	[2]	4	1:3 ft. <sup>2</sup>

Approved Type(s): **Polyisocyanurate HP-W**

Minimum: 1.5" x 3' x 4'	Sure-Seal HP Fastener	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Olympic Stainless #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Olympic #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Rawl #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Isofast #10, #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Sure-Seal HP Fastener	[2]	5	1:3.2 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Sure-Seal HP Fastener	[2]	4	1:4 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Insulfixx HD	[2]	4	1:4 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Tru-Fast #10, #12, #14	[2]	4	1:4 ft. <sup>2</sup>
Minimum: 1.5" x 3' x 4'	Tru-Fast Ultra Stainless	[2]	4	1:4 ft. <sup>2</sup>

Approved Type(s): **Polyisocyanurate HP**

Minimum: 1.2" x 4' x 4'	Insulfixx HD	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 4' x 4'	RoofGrip #12, #14	[2]	8	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 4' x 4'	Sure-Seal HP Fastener	[3]	8	1:2 ft. <sup>2</sup>



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Minimum: 1.2" x 4' x 4'	Perma-Fastener #12, #14, #15	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 4' x 4'	Olympic Stainless #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 4' x 4'	Rawl #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 4' x 4'	Tru-Fast Ultra Stainless	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 4' x 4'	Tru-Fast #10, #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.5" x 4' x 4'	Sure-Seal HP Fastener	[3]	5	1:3.2 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Sure-Seal HP Fastener	[3]	4	1:4 ft. <sup>2</sup>

Approved Type(s): **Polyisocyanurate HP-N**

Minimum: 1.4" x 4' x 4'	Insulfixx HD S	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	RoofGrip #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	Sure-Seal HP Fastener	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	Dekfast #12, #14, #15	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	Perma-Fastener #12, #14, #15	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	Olympic Stainless #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	Rawl #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	Tru-Fast Ultra Stainless	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	Tru-Fast #10, #12, #14	[3]	8	1:2 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Insulfixx HD S	[3]	4	1:4 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	RoofGrip #12, #14	[3]	4	1:4 ft. <sup>2</sup>
Minimum: 1.4" x 4' x 4'	Sure-Seal HP Fastener	[3]	4	1:4 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Dekfast #12, #14, #15	[3]	4	1:4 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Perma-Fastener #12, #14, #15	[3]	4	1:4 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Olympic Stainless #12, #14	[3]	4	1:4 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Olympic #12, #14	[3]	4	1:4 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Rawl #12, #14	[3]	4	1:4 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Tru-Fast Ultra Stainless	[3]	4	1:4 ft. <sup>2</sup>
Minimum: 2" x 4' x 4'	Tru-Fast #10, #12, #14	[3]	4	1:4 ft. <sup>2</sup>

Approved Type(s): **Structodeck**

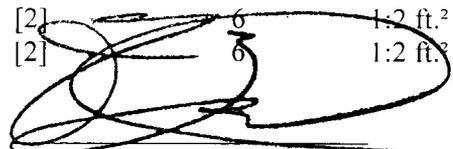
Minimum: ½" x 4' x 4'	Dekfast #12, #14, #15	[3]	8	1:8 ft. <sup>2</sup>
Minimum: ½" x 4' x 4'	Olympic Stainless #12, #14	[3]	8	1:8 ft. <sup>2</sup>
Minimum: ½" x 4' x 4'	Olympic #12, #14	[3]	8	1:8 ft. <sup>2</sup>
Minimum: ½" x 4' x 4'	Rawl #12, #14	[3]	8	1:8 ft. <sup>2</sup>

Approved Type(s): **Thermax Star AP, TRISTAR, Hy-Therm STABLE R**

Minimum: 1.2" x 3' x 4'	Insulfixx HD S	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	RoofGrip #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Dekfast #12, #14, #15	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Olympic Stainless #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Olympic #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Rawl #12, #14	[2]	6	1:2 ft. <sup>2</sup>

Approved Type(s): **Ultra/M-II Iso/glas**

Minimum: 1.2" x 3' x 4'	Insulfixx HD S	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	RoofGrip #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Dekfast #12, #14, #15	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Olympic Stainless #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Olympic #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Rawl #12, #14	[2]	6	1:2 ft. <sup>2</sup>

  
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Minimum: 1.2" x 3' x 4'	Tru-Fast Ultra Stainless	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Tru-Fast #10, #12, #14	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Perma-Fastener #12, #14, #15	[2]	6	1:2 ft. <sup>2</sup>
Minimum: 1.2" x 3' x 4'	Sure-Seal HP Fastener	[2]	6	1:2 ft. <sup>2</sup>

Approved Type(s): **Wood Fiber**

Minimum: 1" x 2' x 4'	Insulfixx HD S	[1]	4	1:2 ft. <sup>2</sup>
Minimum: 1" x 2' x 4'	RoofGrip #12, #14	[1]	4	1:2 ft. <sup>2</sup>
Minimum: 1" x 2' x 4'	Dekfast #12, #14, #15	[1]	4	1:2 ft. <sup>2</sup>
Minimum: 1" x 2' x 4'	Olympic Stainless #12, #14	[1]	4	1:2 ft. <sup>2</sup>
Minimum: 1" x 2' x 4'	Olympic #12, #14	[1]	4	1:2 ft. <sup>2</sup>
Minimum: 1" x 2' x 4'	Rawl #12, #14	[1]	4	1:2 ft. <sup>2</sup>
Minimum: 1" x 2' x 4'	Tru-Fast Ultra Stainless	[1]	4	1:2 ft. <sup>2</sup>
Minimum: 1" x 2' x 4'	Tru-Fast #10, #12, #14	[1]	4	1:2 ft. <sup>2</sup>
Minimum: 1" x 2' x 4'	Perma-Fastener #12, #14, #15	[1]	4	1:2 ft. <sup>2</sup>
Minimum: 1" x 2' x 4'	Sure-Seal HP Fastener	[1]	4	1:2 ft. <sup>2</sup>

Approved Type(s): **Fiber Base**

Minimum: ½" x 4' x 4'	Sure-Seal HP Fastener	[3]	8	1:2 ft. <sup>2</sup>
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<u>Insulation</u>	<u>Fastener</u>	<u>Fastening</u>	<u>Fasteners</u>	<u>Fastener</u>
<u>Top Layer</u>	<u>Type</u>	<u>Detail No.</u>	<u>Per Board</u>	<u>Density</u>

**Required over the insulations listed in Base Layer or optional over any of the insulations listed as Base or Top Layer:**

Approved Type(s): **HP Recovery** (for use over all insulation. types)

Minimum: ½" x 4' x 4'	Sure-Seal HP Fastener	[3]	8	1:2 ft. <sup>2</sup>
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Approved Type(s): **Fiber Base** (for use over polyisocyanurate, gypsum or perlite)

Minimum: ½" x 4' x 4'	Sure-Seal HP Fastener	[3]	8	1:2 ft. <sup>2</sup>
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**Note: 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 Miami Dade County Roofing Application Standard RAS 117 for insulation attachment.**

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder applied to the roof deck or over a base layer of insulation.

Barrier: 1/4", 3/8", 1/2", or 5/8" gypsum.

Membrane: Sure-Weld or Sure-Weld GSD, Reinforced, 45 or 60 mil membrane fully adhered to the insulation using Sure-Weld Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.<sup>2</sup>.

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

Maximum Fire Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.



**WOOD DECK SYSTEM LIMITATIONS:**

- 1 A slip sheet is required with Ply 4 and Ply 6 when used as a mechanically fastened base or anchor sheet.

**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 applied 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 may 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 sidelap 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 TAS 105. If the fastener value, as field-tested, is 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 the 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 or Architect may be submitted. Said revised fastener spacing utilize the withdrawal resistance value taken from Miami-Dade Protocol TAS 105 and calculations in compliance with Miami-Dade Roofing Application Standard RAS 117.
- 7 Perimeter and corner areas shall comply with the enhanced uplift pressure of these areas, as calculated in compliance with Chapter 23 of the South Florida Building Code. Fastener densities shall be increase for both insulation and base sheet as needed calculated in compliance with Miami-Dade Roofing Application Standard TAS 117. **(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 Miami-Dade County Roofing Application Standard TAS 111 and the wind load requirements of Chapter 23 of the South Florida Building Code.
- 9 The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, corners). No 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.)**



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**NOTICE OF ACCEPTANCE STANDARD CONDITIONS**

- 1 Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
- 2 Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
- 3 Renewals of Acceptance will not be considered if:
  - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
  - b) The product is no longer the same product (identical) as the one originally approved;
  - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
  - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4 Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5 Any of the following shall also be grounds for removal of this Acceptance:
  - a) Unsatisfactory performance of this product or process;
  - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6 The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7 A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.
- 8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9 This Acceptance contains pages 1 through 13.

**END OF THIS ACCEPTANCE**



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