



MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Johns Manville
717 17th Street
Denver CO 80202

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT SECTION
(305) 375-2966 FAX (305) 375-2908

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

Your application for Product Approval of:

EPDM Roofing System-Recover 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 approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime 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 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.: 00-0424.15 (Revises No.: 98-0520.07)

Expires: 11/19/2004

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 Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director

Miami-Dade County
Building Code Compliance Office

Approved: 07/20/2000



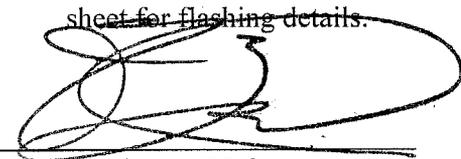
ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Single Ply, EPDM
Deck Type: Recover
Maximum Design Pressure -75 psf
Fire Classification: See General Limitation #1

Approval Date: July 20, 2000
 Expiration Date: November 19, 2004

TRADE NAMES OF PRODUCTS MANUFACTURED :OR LABELED BY APPLICANT

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
½" Retro-Fit Board	½" x 2' x 4'	PA 110	Perlite roof insulation.
#12-#15 UltraFast Fastener		PA 114	Hex or Phillips head roof insulation fastener.
#14 EPDM Fastener		PA 114	Membrane fastener.
CD-10 Fasteners		PA 114	Insulation fastener for concrete decks.
Fesco	various	PA 110	Perlite roof insulation.
Fesco Foam	various	PA 110	Perlite/isocyanurate composite roof insulation.
EPDM Lap Caulk		PA 110	Black Sealant for Lap Seams.
LWC Base Sheet Fastener	1.2" x 1.75"	PA 114	G-90 Galvanized fastener for securing base sheet to lightweight insulating concrete.
NBT-1H & 2H		PA 114	Glass reinforced nylon fastener for gypsum and cementitious wood fiber decks.
EPDM Lap Caulk - White		PA 110	White sealant for lap seams.
EPDM Lap Cement - Black		PA 110	Lap Cement for Black Membrane.
EPDM Lap Cement - White		PA 110	Lap Cement for White Membrane.
EPDM Flashing - White	various	ASTM D 4637	60 mil uncured EPDM (white) sheet for flashing details.



Frank Zuloaga, RRC
 Roofing Product Control Examiner

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
EPDM Color Coating		PA 110	Hypalon paint for color coating EPDM membranes.
Anchor Discs	2" dia.	PA 114	Sheet attachment stress plate.
EPDM Bonding Adhesive		PA 110	Rubber based adhesive for adhering membrane or flashing sheet to porous substrate.
EPDM Flashing - Black	various	ASTM D 4637	60 mil uncured EPDM (black) sheet for flashing details.
.045 EPDM	various	ASTM D 4637	45 mil non-reinforced black EPDM sheet.
.045R EPDM	various	ASTM D 4637	45 mil reinforced black EPDM sheet.
.060 EPDM	various	ASTM D 4637	60 mil non-reinforced black EPDM sheet.
.060R EPDM	various	ASTM D 4637	60 mil reinforced black EPDM sheet.
.060FR EPDM	various	ASTM D 4637	60 mil non-reinforced, flame retardant black EPDM sheet.
.060W EPDM	various	ASTM D 4637	60 mil non-reinforced white EPDM sheet.
Sure-Seal Lightweight Insulation Plates	3" dia.	PA 114	Metal plates used for insulation securement with HP Lightweight Fasteners.
UltraFast Galvalume Metal Plate	3" x 3"	PA 114	Galvalume stress plate.
UltraFast Locking Plastic Plate	3" dia.	PA 114	Plastic stress plate.
UltraGard	various	PA 110	Isocyanurate roof insulation.
E'NERG'Y PSI-25	various	PA 110	Polyisocyanurate foam insulation



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<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
E'NRG'Y-2	various	PA 110	Polyisocyanurate foam insulation
UltraFast ASAP	Various	PA 114	Assembled screw & plate for roof insulation
UltraFast Locking Plastic Plate	Varous.	PA 114	Assembled screw & plate for roof insulation
EPDM Seam Tape	Various		Self adhering splice tape for splicing EPDM sheets
EPDM Peel & Stick Flashing	various		6"-12" self adhesive flashing for EPDM systems
EPDM Reinforced Termination Strip	Various		6" reinforced cured EPDM strip for securing EPDM membrane in corners and perimeters

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.
Pyrox	various	PA 110	Polyisocyanurate foam insulation	Apache Products Co.
White Line	various	PA 110	Polyisocyanurate foam insulation	Apache Products Co.
ACFoam II	various	PA 110	Polyisocyanurate foam insulation	Atlas Energy Products
Celcore	Various	PA 110	Cellular insulating Concrete System	Celcore, Inc.
Concrecel	Various	PA 110	Cellular insulating Concrete System	Concrecel, Inc.
Elastizell	Various	PA 110	Cellular insulating Concrete System	Elastizell Corp.
Hy-Therm Stable R	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp.
Star SP	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp.
Star AP	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp.
Tristar	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp.



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<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Dekfast Fasteners #12, #14, & #15		PA 114	Insulation fastener for steel and wood decks.	Construction Fasteners Inc.
Dekfast Hex Plate	2 7/8" x 3 1/4"	PA 114	Galvalume hex stress plate.	Construction Fasteners Inc.
Styrofoam	2' x 8'	PA 110	Extruded polystyrene insulation	Dow
ISO 95+ GL, 95+ GW		PA 110	Polyisocyanurate foam insulation	Firestone
High Density Wood Fiberboard	various	PA 110	Wood fiber insulation board	generic
Perlite/Urethane Composite	various	PA 110	Perlite/urethane composite insulation board	generic
Sturdi-Top	various	PA 110	Wood fiber insulation board.	Georgia Pacific
Ultra/M-II	various	PA 110	Polyisocyanurate foam insulation	Homasote Co.
Insta-Stick	various	PA 110	Polyisocyanurate foam insulation	Insta-Foam
#12 & #14 Roofgrip		PA 114	Insulation fastener	ITW Buildex
E'NERG'Y PSI-25	various	PA 110	Polyisocyanurate foam insulation	NRG Barriers, Inc.
CD-10 Fastener		PA 114	Insulation fastener	Olympic Manufacturing Group, Inc.
Con-Tite		PA 114	Concrete deck insulation fastener	Olympic Manufacturing Group, Inc.
Lite-Deck Fastener		PA 114	Insulation fastener	Olympic Manufacturing Group, Inc.
N.T.B. Magnum		PA 114	Glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks.	Olympic Manufacturing Group, Inc.
Olympic Fastener #12 & #14		PA 114	Insulation fastener	Olympic Manufacturing Group, Inc.
Multi-Max FA	various	PA 110	Polyisocyanurate foam insulation	RMAX
HD Insul-Fixx Fastener		PA 114	Insulation fastener for use in steel and concrete decks	SFS/Stadler
Insul-Fixx Fastener		PA 114	Insulation fastener for steel and wood decks	SFS/Stadler
Insul-Fixx S	3" square	PA 114	3" square galvalume-A755 stress plate	SFS/Stadler

<u>Product Name</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>	<u>Manufacturer</u>
Insul-Fixx P	3" round	PA 114	3" round polyethylene stress plate	SFS/Stadler
Isofast Plate	various	PA 114	Square or oblong galvalume steel plates for use with Isofast fasteners	SFS/Stadler
Isofast Fasteners		PA 114	Insulation fastener for steel and wood decks	SFS/Stadler
Rawl Speed-Lock Toggle Bolt		PA 114	Insulation fastener assembly	The Rawlplug Company Inc.
Rawl Drive		PA 114	Insulation fastener and steel and plastic stress plate for concrete deck	The Rawlplug Company Inc.
Rawl Fasteners #12		PA 114	Insulation fastener for steel and wood decks	The Rawlplug Company Inc.
Rawl Spike		PA 114	Insulation fastener and steel and plastic stress plate for concrete deck	The Rawlplug Company Inc.
Rawl Fasteners #14		PA 114	Insulation fastener for use in steel, wood or concrete	The Rawlplug Company Inc.
Rawlite		PA 114	Insulation fastener for cementitious and gypsum decks	The Rawlplug Company Inc.
Tru-Fast DP		PA 114	Insulation fastener for use in steel or wood decks	Tru-Fast
Tru-Fast DL		PA 114	Glass reinforced nylon fastener for use in tectum or gypsum decks	Tru-Fast
Tru-Fast CF Fasteners		PA 114	Insulation fastener for concrete decks	Tru-Fast
Tru-Fast TP		PA 114	Insulation fastener for use in steel or wood decks	Tru-Fast
Tru-Fast MP-3	3.23" round	PA 114	3.23" round galvalume AZ50 steel plate	Tru-Fast
Tru-Fast Plastic Plate	3.04" round	PA 114	3.04" round polyethylene plastic plate	Tru-Fast
Tru-Fast Ultra		PA 114	Stainless Steel fastener for use in steel, wood and concrete decks	Tru-Fast
Tru-Fast HD		PA 114	Insulation fastener for use in wood, steel or concrete decks	Tru-Fast
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>
Factory Mutual Research Corporation	J.I. 1B7A5.AM	Wind Uplift and Fire Classification	2/23/98
	J.I. 2X7A4.AM	Letter	3/7/94
	J.I. 0T4A3.AM	Fire Test	10/30/91
	J.I. 1V3A1.AM	Pullout Test	5/11/92
	J.I. 2D6A6.AM	Wind Uplift Classification	10/07/98
Factory Mutual Research Corporation		Letter	5/7/94
	FM Approval Guide	Current insulation and fastening requirements	Published Annually with supplements
Underwriters Laboratories, Inc.	UL Roofing Materials and Systems Directory	File No. R8103	Published Annually with supplements
		Letter	10/21/92
Warnock Hersey Architectural Testing Inc.	634-308500	Wind Uplift	6/4/93
	ATI-18535	Wind Uplift	10/14/96
Architectural Testing Inc	ATI-17214	Wind Uplift	3/20/96
Architectural Testing Inc	ATI-17601-1	Wind Uplift	6/29/96
Architectural Testing Inc	ATI-17601-2	Wind Uplift	7/30/96



SYSTEMS:

Membrane Type: Single Ply, Thermoset, EPDM, Reinforced, Nonreinforced

Deck Type 7I: Recover

Deck Description: Concrete/lightweight concrete/cementitious wood fiber/wood/steel

System Type A: All layers of insulation adhered with approved asphalt; 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 or Base or Top Layer.

Approved Type(s): Fesco Minimum: 3/4" x 2' x 4'	N/A	N/A	N/A	N/A
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<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 as a Base or Top layer or over the Base Layer listed above:

Approved Type(s): ACFoam II Minimum: 1.5" x 3' x 4'	N/A	N/A	N/A	N/A
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Approved Type(s): E'NRG'Y-2, PSI-25 Minimum: 1.4" x 4' x 4'	N/A	N/A	N/A	N/A
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Approved Type(s): HP Recovery Minimum: 1/2" x 4' x 4'	N/A	N/A	N/A	N/A
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Approved Type(s): High Density Fiberboard Minimum: 3/4" x 4' x 4'	N/A	N/A	N/A	N/A
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Approved Type(s): PYROX, AP Minimum: 1.2" x 4' x 4'	N/A	N/A	N/A	N/A
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Approved Type(s): Multi-Max FA Minimum: 1.2" 3' x 4'	N/A	N/A	N/A	N/A
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Approved Type(s): Fesco Foam Minimum: 1.5" x 3' x 4'	N/A	N/A	N/A	N/A
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Approved Type(s): Structodeck Minimum: 1/2" x 4' x 4'	N/A	N/A	N/A	N/A
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Roofing Product Control Examiner

Note: Existing roof shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of base sheet. All insulation shall be adhered to the deck in full moppings of approved asphalt within the EVT range and at a rate of 20-40 lbs./s Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base layer only shall be used only as base layers with a second layer of approved top layer insulation installed as the final membrane substrate. Composite insulation panels used as a top layer shall be placed with the polyisocyanurate side facing down.

Vapor Retarder: (Optional) Vapor retarder may be mopped to deck or base layer of insulation.

Barrier: None.

Membrane: EPDM .045, EPDM .045R, EPDM .060, EPDM .060R, EPDM .060FR or EPDM .060W fully adhered to the insulation using EPDM Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.², or B-500 applied to the substrate at 1 gal./sq.

Surfacing: (Optional) A two part surfacing consisting of EPDM Color Coating applied to a clean membrane surface, after a two week cure at the rate of 1 gal./150 ft.² and silica sand applied into the wet coating at a rate of 35 lbs./sq.

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

Maximum Fire Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.



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Membrane Type: Single Ply, Thermoset, EPDM, Reinforced, Nonreinforced

Deck Type 7I: Recover

Deck Description: Concrete/lightweight concrete/cementitious wood fiber/wood/steel

System Type C: All layers of insulation simultaneously attached; membrane fully adhered.

All General and System Limitations apply.

<u>Insulation</u> <u>Base Layer</u>	<u>Fastener</u> <u>Type</u>	<u>Fastening</u> <u>Detail No.</u>	<u>Fasteners</u> <u>Per Board</u>	<u>Fastener</u> <u>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

Approved Type(s): Expanded Polystyrene				
Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A

Approved Type(s): Energy-Lok, ACfoam - I				
Minimum: 1" x 3' x 4'	N/A	N/A	N/A	N/A

Approved Type(s): Fesco				
Minimum: 3/4" x 2' x 4'	N/A	N/A	N/A	N/A

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

<u>Insulation</u> <u>Top Layer</u>	<u>Fastener</u> <u>Type</u>	<u>Fastening</u> <u>Detail No.</u>	<u>Fasteners</u> <u>Per Board</u>	<u>Fastener</u> <u>Density</u>
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Required over the insulations listed in Base Layer or optional over any of the insulations listed as Base or Top layer :

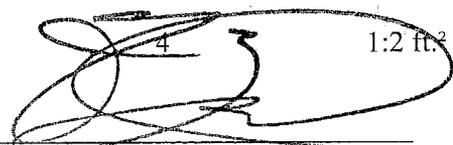
Approved Type(s): HP Recovery (for use over all insul. types)				
Minimum: 1/2" x 4' x 4'		[3]	8	1:2 ft. ²
Minimum: 1" x 2' x 4'		[1]	4	1:2 ft. ²

Approved Type(s): Fiber Base (for use over polyisocyanurate, gypsum or perlite)				
Minimum: 1/2" x 4' x 8'		[4]	11	1:2.9 ft. ²

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

Approved Type(s): Fesco (use over all other insulation types)				
Minimum: 3/4" x 2' x 4'		[1]		


 4 3 1:2 ft.²
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<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>
Approved Type(s): Retro-Fit Board (use over all other insulation types)				
Minimum: ½" x 2' x 4'		[1]	4	1:2 ft. ²
Approved Type(s): ACFoam II				
Minimum: 1.5" x 3' x 4'		[2]	6	1:2 ft. ²
Minimum: 2" x 4' x 4'		[3]	8	1:2 ft. ²
Approved Type(s): E'NRG'Y-2, PSI-25				
Minimum: 1.4" x 4' x 4'		[3]	8	1:2 ft. ²
Minimum: 2" x 4' x 4'		[3]	4	1:4 ft. ²
Approved Type(s): HP Recovery				
Minimum: ½" x 4' x 4'		[3]	8	1:2 ft. ²
Minimum: 1" x 2' x 4'		[1]	4	1:2 ft. ²
Approved Type(s): High Density Fiberboard				
Minimum: ¾" x 4' x 4'		[3]	6	1:2.67 ft. ²
Approved Type(s): WHITELINE, PYROX, AP				
Minimum: 1.4" x 4' x 4'		[3]	8	1:2 ft. ²
Approved Type(s): Fesco Foam				
Minimum: 1.5" x 3' x 4'		[2]	6	1:2 ft. ²
Approved Type(s): Sturdi Top				
Minimum: ½" x 4' x 4'		[3]	8	1:8 ft. ²
Approved Type(s): Ultra/M-II Iso/glas				
Minimum: 1.2" x 3' x 4'		[2]	6	1:2 ft. ²
Approved Type(s): Wood Fiber				
Minimum: 1" x 2' x 4'		[1]	4	1:2 ft. ²
Approved Type(s): Fiber Base				
Minimum: ½" x 4' x 8'		[4]	11	1:2.9 ft. ²

Note: All layers of insulation shall be mechanically attached using the fastener density listed above. The insulation panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining the same fastener density. Insulation fasteners shall be tested for withdrawal resistance in compliance with Miami-Dade County Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in Chapter 23 of the S.F.B.C. 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.



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Barrier: None.

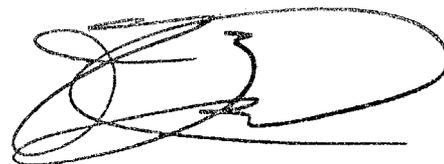
Membrane: EPDM .045, EPDM .045R, EPDM .060, EPDM .060R, EPDM .060FR or EPDM .060W fully adhered to the insulation using EPDM Bonding Adhesive applied to the substrate at a rate of 1 gal/60 ft.², or B-500 applied to the substrate at 1 gal./sq.

Surfacing: (Optional) A two part surfacing consisting of EPDM Color Coating applied to a clean membrane surface, after a two week cure at the rate of 1 gal./150 ft.² and silica sand applied into the wet coating at a rate of 35 lbs./sq.

Maximum Design Pressure: -75 psf. (See General Limitation #9.)

Maximum Fire Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.



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Roofing Product Control Examiner

Membrane Type: Single Ply, Thermoset, EPDM, Reinforced

Deck Type 7I: Recover

Deck Description: Concrete/lightweight concrete/cementitious wood fiber/wood/steel

System Type D: Membrane mechanically attached over preliminary fastened insulation.

All General and System Limitations apply.

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

Approved Type(s): Extruded or Expanded Polystyrene				
Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A

Approved Type(s): Energy-Lok, ACFoam-I				
Minimum: 1" x 3' x 4'	N/A	N/A	N/A	N/A

Approved Type(s): Fesco				
Minimum: ¾" x 2' x 4'	N/A	N/A	N/A	N/A

<u>Insulation</u> <u>Top Layer</u>	<u>Fastener</u> <u>Type</u>	<u>Fastening</u> <u>Detail No.</u>	<u>Fasteners</u> <u>Per Board</u>	<u>Fastener</u> <u>Density</u>
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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 (use over all other insul. types)				
Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Approved Type(s): Fiber Base (use over polyisocyanurate, Gypsum or perlite)				
Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Approved Type(s): Fesco (use over all other insulation types)				
Minimum: ¾" x 2' x 4'	N/A	N/A	N/A	N/A

Approved Type(s): Retro-Fit Board (use over all other insulation types)				
Minimum: ½" x 2' x 4'	N/A	N/A	N/A	N/A ft. ²



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<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'	N/A	N/A	N/A	N/A
Approved Type(s): E'NRG'Y-2, PSI-25 Minimum: 1.4" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): HP Recovery Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): High Density Fiberboard Minimum: ¾" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): WHITELINE, PYROX, AP Minimum: 1.2" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): Multi-Max FA Minimum: 1.2" 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): Fesco Foam Minimum: 1.5" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): Structodeck Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): Wood Fiber Minimum: ½" x 4' x 8'	N/A	N/A	N/A	N/A
Approved Type(s): Fiber Base Minimum: ½" x 4' x 8'	N/A	N/A	N/A	N/A

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

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

Barrier: None.

Membrane: EPDM .045, EPDM .045R, EPDM .060, EPDM .060R, EPDM .060FR or EPDM .060W secured through the preliminary attached insulation as specified below. See System Limitation #2.



Fastening: JM approved fasteners with metal plates 6" o.c. through the reinforced membrane in the lap or through a 6" strip 6'6" o.c., and the lap sealed, or the membrane fully adhered to the 6" strip with EPDM Lap Cement.

Surfacing: (Optional) A two part surfacing consisting of EPDM Color Coating applied to a clean membrane surface, after a two week cure at the rate of 1 gal./150 ft.² and silica sand applied into the wet coating at a rate of 35 lbs./sq.

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

Maximum Fire Classification: See General Limitation #1.

Maximum Slope: See General Limitation #1.



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RECOVER SYSTEM LIMITATIONS:

- 1 Existing roof surfaces used as a bonding substrate shall be tested for uplift resistance, in compliance with Miami-Dade County Protocol PA 124 to the calculated design pressures of the field, perimeter and corner areas, determined in compliance with Chapter 23 of the South Florida Building Code.
- 2 All System Limitations and General Limitations shall apply. See specific deck type Notice of Acceptance for deck type System Limitations.



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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 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, 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 or Architect may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Miami-Dade County 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 calculated in compliance with Miami-Dade County Roofing Application Standard RAS 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 RAS 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, 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.)**



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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 18.

END OF THIS ACCEPTANCE



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