MIAMI-DADE

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

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

Cooley Engineered Membranes, Inc.
50 Esten Avenue
Pawtucket ,RI 02860

Your application for Notice of Acceptance (NOA) of:
Cooley Single Ply Roof Systems in Recover Applications
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.: 00-1120.01
EXPIRES: 02/01/2006

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: 02/01/2001

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply
Material:	PVC
Deck Type::	Recover
Maximum Design Pressure:	-45 psf
Fire Classification:	See General Limitations #1

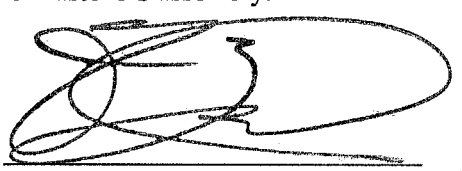
Approval Date:**February 1, 2001**
Expiration Date: **Febrauary 1, 2006**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

Product	Dimensions	Test Specification	Product Description
Cooley C-3 40-100 Mil Membrane	78" x 108" 702 sf. roll	ASTMD 4434	40-100 mil thermoplastic alloy membrane field membrane.
Cooley C-3 40-100 Mil Perimeter Sheet	39" x 108' 351 sf. roll	ASTM D 4434	40-100 mil thermoplastic alloy membrane perimeter sheet.
Cooley C-3 40-Roofing Membrane	52" x 108'	ASTM D 4434	40-100 mil thermoplastic alloy membrane field membrane.
Cooley C-3 Reinforced Flashing Membrane	6", 8", 12", 18" & 24" variable length rolls	ASTM D 4434	40-100 mil thermoplastic flashing membrane.
Cooley C-3 Unreinforced 55 Mil Membrane Back RAM	24" x 30' LF 60 sf. roll	ASTM D 4434	55 mil unreinforced flashing membrane
Cooley C-3 Coated Metal	4' x 8' 4' x 10' sheets	US Commercial Standard CS-245-62	C-3 membrane laminated 24 Ga.. galvanized steel.
Cooley C-3 Fleece Back RAM Universal Corners	76" x 90" 570 sf. roll	ASTM D 4434	thermoplastic fleece back membrane. Adhered applications.
Cooley C-3 Fleece Back RAM	39" x 108' 351 sf. roll	ASTM D 4434	Thermoplastic fleece back membrane. Adhered applications.
Cooley C-3 Fleece Back RAM Flashing	12' x 108' 108 sf. roll 24" x 108' 216 sf. roll	ASTM D 4434	Thermoplastic fleece back membrane flashing material.
Cooley C-3 Universal Corners	4" x 4" x 4" 20 pcs. crtn.	ASTM D 4434	Prefabricated molded 1 piece corners.
Cooley C-3 Boots	1" - 8" od 6 pcs. crtn.	ASTM D 4434	Premolded vent. pipe boots
Cooley C-3 Bonding Adhesive	5 gallon pails		Adhesive for fully adhered RAM systems.

Frank Zuloaga, RRC
Roofing Product Control Examiner

Product	Dimensions	Test Specification	Product Description
Cooley Membrane Plates	2" round 8" - 8" max. length.	PA 117	Round 2" nylon reinforced seam plate.
Cooley Membrane Plates	2" round	PA 114(E) PA 117	Round 2" galvalume plate.
Cooley Insulation Plates	3" round	PA 114(E) PA 117	Round 3" galvalume plate.
Cooley Universal Coated Fasteners.	1 5/8" - 8" #14	PA 114(E) PA 117	Self tapping coated screw w/#3 Phillips head.
Cooley Heavy Duty Coated Fasteners	1 1/4" - 16"	PA 114(E) PA 117	Self tapping coated screw w/#3 Phillips head.
Cooley Masonary Anchors	1/4" x 1" 1 1/4" x 2"	PA 114(E) PA 117	Masonary fastener w/drive pin.
Cooley Concrete Spike Fasteners	2" - 8"	PA 114(E) PA 117	Structural concrete deck fasteners.
Cooley N.T.B. Fasteners	2.5" - 7.5" 1" head	PA 117	N. T. B. Magnum II membrane and insulation fastener for light weight decking w/1" head.
Cooley N. T. B. Plates Type 2	2"	PA 117	Nylon spin weld membrane plane.
Cooley N. T. B. plates Type 3	3"	PA 114(E) PA 117	3" metal insulation plate.
Cooley N. T. B. fasteners	2.5" - 10" 2" head	PA 117	N. T. B. Magnum membrane and insulation.
Cooley N. T. B. insulation plates	3"	PA 114(E) PA 117	N. T. B. Magnum membrane and insulation fastener for lightweight decks.
Cooley Aluminum Termination Bar	1/8 x 1" x 10	PA 114(E)	Flat termination bar.
Cooley Reglet Joint Cover	10.5' ft.		Double caulking flange reglet bar
Cooley PMF Expansion Joint	6" x 50'		Protected metal flange expansion joint cover.
Cooley L.P. Expansion Joint	6" x 50'		Low profile curb mount expansion joint.
Cooley Tuff Track 250 Walkway	1/4" x 30" x 40'		Walkway pad (roll configuration)
Cooley Tuff Track 500 Walkway	1/2" x 30 x 36"		Walkway pad (single pad)
C3 Bonding Adhesive	N/A		Contact adhesive for membrane flashing.
CRSI Membrane Plates Nylon Reinforced	2"	PA 117	Membrane fastening assembly.
CRSI Membrane Plates Galvalume	2"	PA 114(E) PA 117	Membrane fastening assembly.
CRSI Insulation Plates Galvalume	3"	PA 114(E) PA 117	Insulation fasteners assembly.



Frank Zuloaga, RRC
Roofing Product Control Examiner

Product	Dimensions	Test Specification	Product Description
CRSI Universal Coated Fasteners	#14 1 5/8 - 8	PA 114(E) PA 117	Coated fasteners for steel and plywood.
CRSI Heavy Duty Coated Fasteners	#15 1 1/4"-16"	PA 114(E) PA 117	Coasted fasteners for concrete heavy gauge metal and wood decks.
CRSI Masonary Anchors	1/4" x 1" x 2"	PA 114(E) PA 117	Masonary fasteners for concrete, brick and block.
CRSI Concrete Spike Fastener	7/32" x 2" x 8"	PA-114	Spike fasteners for structural concrete.
CRSI NTB Fasteners 1" & 8" Head	2.5" x 7.5"	PA-114	Attachment of roof membrane and insulation to lightweight concrete, gypsum, ceminticious fiber tectum and insulrock.
Cooley Roof Expansion Joint	6" x 50'		Protected metal flange expansion joint cover.
Cooley LP Expansion Joint	6" x 50'		Low profile curb mount expansion joint.

Trade Names of Products Manufactured by Others

Product	Dimensions	Test Specification	Product Description	Manufacturer
ACFoam II	various	PA 110	Polyisocyanurate foam insulation.	Atlas (with current NOA)
ACFoam III	various	PA 110	Polyisocyanurate foam insulation.	Atlas (with current NOA)
E'NERG'Y PSI-25	various	PA 110	Polyisocyanurate foam insulation.	Johns Manville (with current NOA)
E'NRG'Y-2 Plus	various	PA 110	Polyisocyanurate foam insulation.	Johns Manville (with current NOA)
Fesco Foam	various	PA 110	Polyisocyanurate foam / Fescoboard insulation.	Johns Manville (with current NOA)
UltraGard Premier	various	PA 110	Polyisocyanurate foam insulation.	Johns Manville (with current NOA)
UltraGard Gold	various	PA 110	Polyisocyanurate foam insulation.	Johns Manville (with current NOA)
Hy-Tec	various	PA 110	Polyisocyanurate foam insulation.	Celotex Corp. (with current NOA)
Hy-Therm SP	various	PA 110	Polyisocyanurate foam insulation.	Celotex Corp. (with current NOA)
Hy-Therm AP	various	PA 110	Polyisocyanurate foam insulation	Celotex Corp. (with current NOA)

Frank Zuloaga, RRC
Roofing Product Control Examiner

Product	Dimensions	Test Specification	Product Description	Manufacturer
ISO 95+, ISO 95+ GL	various	PA 110	Polyisocyanurate foam insulation.	Firestone (with current NOA)
Multi-Max, Multi-Max FA	various	PA 110	Polyisocyanurate foam insulation.	Rmax, Inc. (with current NOA)
Thermaroof Plus	various	PA 110	Polyisocyanurate foam insulation.	Rmax, Inc. (with current NOA)
Ultra/M-II	various	PA 110	Polyisocyanurate foam insulation.	Homasote 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)
GAFTEMP Permalite	various	PA 110	Perlite insulation board.	GAF (with current NOA)
Celotherm	various	PA 110	Perlite insulation board	Celotex (with current NOA)
Conperl	various	PA 110	Perlite insulation board	Conglas (with current NOA)
Fesco Board	various	PA 110	Perlite insulation board	Johns Manville (with current NOA)
High Density Fiber Board	various	PA 100	Wood fiber insulation.	Celotex Corp. (with current NOA)
Armor Board High Density	various	PA 110	Wood fiber insulation	Allied Signal (with current NOA)
GAFTEMP High Density Fiberboard	various	PA 110	Wood fiber insulation.	GAF (with current NOA)
Roof Insulation Board	various	PA 110	Wood fiber insulation.	Georgia Pacific (with current NOA)
Fiberbase HD1, HD6	various	PA 110	Wood fiber insulation.	Temple Inland (with current NOA)
Structodek	various	PA 110	Wood fiber insulation.	Masonite (with current NOA)
Type X Gypsum	various		Fire resistant rated gypsum.	generic
Dekfast Fasteners #12, #14 or #15	various	PA 114 PA 117	Insulation fastener for wood, steel and/or concrete decks.	Construction Fasteners Inc. (with current NOA)
Omega	various	PA 114 PA 117	Stainless steel insulation fastener and metal or plastic plate.	Construction Fasteners Inc. (with current NOA)
HD Insul-Fixx Fastener	various	PA 114 PA 117	Insulation fastener for use in steel and concrete decks.	SFS Stadler (with current NOA)
Insul-Fixx P	3" round	PA 114 PA 117	3" round polyethylene stress plate.	SFS Stadler (with current NOA)

Frank Zuloaga, RRC
Roofing Product Control Examiner

Product	Dimensions	Test Specification	Product Description	Manufacturer
Insul-Fixx S	3" round	PA 114 PA 117	3" round galvalume AZ55 stress plate.	SFS Stadler (with current NOA)
Insul-Fixx Fastener	various	PA 114 PA 117	Insulation fastener for steel and wood decks.	SFS Stadler (with current NOA)
Isofast Fasteners	various	PA 114 PA 117	Insulation fastener for steel and wood decks.	SFS Stadler (with current NOA)
Isofast Plate	various	PA 114 PA 117	Square or oblong galvalume steel plates for use with Isofast fasteners.	SFS Stadler (with current NOA)
CD-10 Fastener	various	PA 114 PA 117	Insulation fastener for concrete decks.	Olympic (with current NOA
N.T.B. Magnum	various	PA 114 PA 117	Glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks.	Olympic (with current NOA)
Olympic Fastener #12 or #14	various	PA 114 PA 117	Insulation fastener for wood, steel and concrete (#14) decks.	Olympic (with current NOA)
GAFGLAS # 75	3' x 108'; Roll weight: 75 lb	ASTM D 4601	G2 Fiberglass base sheet.	GAF (with current NOA)
PermaPly R	36" x 180'	ASTM D 2178	Type VI fiberglass plysheet.	Johns Manville (with current NOA)
PermaPly 28	36" x 324 sq. ft.	ASTM D 4601	Glass fiber, asphalt impregnated base sheet.	Johns Manville (with current NOA)
Ventsulation	36" x 36'	ASTM D 3909	Glass reinforced, ventilated base sheet	Johns Manville (with current NOA)

Frank Zuloaga, RRC
Roofing Product Control Examiner

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corporation	J.I. 0X2A9.AM	Class 1 Concrete deck fully adhered.	06/26/93
	J.I. 3W1A1.AM	Class 1 Mechanically attached.	03/29/93
	J.I. 1W1A9.AM	80 Mil Class I wood, steel, concrete.	09/11/93
	J.I. 1R2A0.AM	C3 Tripolymer Class 1 steel, wood, concrete.	04/10/90
	J.I. 1X3A6.AM	C3 Fleece Back fully adhered Class I steel, concrete.	10/03/93
	J.I. 1W9A2.AM	C3 Fleece Back fully adhered Class I lightweight concrete.	06/15/93
	J.I. 1W2A0.AM	C3 Fleece Back fully adhered Class I lightweight concrete.	08/24/93
	J.I. 1T2A6.AM	Olympic GTL, Lite deck NTB Magnum, Iron LOK Strap Toggle fasteners Class I.	02/22/93
	J.I. 3W3A4.AM	C3 mechanically fastened steel, concrete.	11/22/93
	J.I. 3W3A4.AM	100 Mil C3 Class I steel, wood, concrete.	03/26/93
	J.I. 0T9A3.AM	60 Mil C3 Class I steel, wood, concrete.	10/01/90
	J.I. 1V1A8.AM	C3 Fleece back fully adhered Class I Steel & concrete.	04/21/92
	J.I. 0X8A9.AM	C3 Dual attachment Class I steel, wood, concrete.	06/25/93
	J.I. 1X6A5.AM	Solweld plate mechanically fastened Class I steel, concrete.	10/12/93
	J.I. 2W5A6.AM	C3 Fleece back fully adhered Class I steel, concrete.	06/01/93
Underwriters Laboratories	File R9834 (N)	Fire Classification	04/06/93
	File R9834 (N)	Fire Classification	06/02/92
	File R9834 (N)	Fire Classification	05/22/92

Frank Zuloaga, RRC
Roofing Product Control Examiner

Test Agency/Identifier	Name	Report	Date
	File R9834 (N)	Fire Classification	05/15/92
	File R9834 (N)	Fire Classification	05/04/92
	File R9834 (N)	Fire Classification	05/04/92
	File R9834 (N)	Fire Classification	09/21/92
	File R9834 (N)	Fire Classification	06/02/92
	File R9834 (N)	Fire Classification	01/08/91
	File R9834 (N)	Fire Classification	11/09/90
	File R9834 (N)	Fire Classification	07/13/90
	File R9834 (N)	Fire Classification	03/14/90
	File R9834 (N)	Fire Classification	07/13/90

Frank Zuloaga, RRC
Roofing Product Control Examiner

SYSTEMS

Deck Type 7I: Recover, Insulation (Optional)

Deck Description: cementitious wood fiber/gypsum

System Type A(1): Anchor sheet mechanically attached, optional insulation adhered, membrane adhered.

All General and System Limitations apply.

Insulation (Optional) Base Layer	**Fastener Type**	**Fastening Detail No.**	**Fasteners Per Board**	**Fastener Density**
One or more layers of the following insulations:				
Approved Type(s): **ACFoam II, Multi-Max FA, E'NRG'Y-2, PSI-25, ISO-95+, ISO + GL, Hy-Therm AP, Pyrox**				
Minimum: 1.4" x 4' x 4'	N/A	N/A	N/A	N/A

Insulation (Optional) Top Layer	**Fastener Type**	**Fastening Detail No.**	**Fasteners Per Board**	**Fastener Density**
Approved Type(s): **High Density Fiberboard, FM-90 High Density, Armor Board Regular, Esgard, Celotex Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard, Kop-R Wood Fiber**				
Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Note: All insulation, if any installed, shall be adhered to the anchor sheet in full moppings of approved asphalt within the EVT range and at a rate of 20-40 lbs./sq. or Cooley Bonding Adhesive at 1 gal./sq. Please refer to 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.

Anchor Sheet: One ply of Celotex Hydrostop, GAFGLAS #75, GAFGLAS Stratavent, Johns Manville Ventsulation or Johns Manville PermaPly 28 secured to the deck with Olympic NTB Magnum fasteners at 1 per 2 sq. ft.

Note: Anchor sheet fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements set forth in the applicable Building Code.

Membrane: C3 Fleece Back Roof Cover fully adhered to the anchor sheet or insulation with Cooley Bonding Adhesive (C-1006) applied at the rate of 1 gal./sq., or approved mopping asphalt applied at the rate of 25 lbs./sq..

Frank Zuloaga, RRC
Roofing Product Control Examiner

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

Maximum Fire Classification: See General Limitation #1

Frank Zuloaga, RRC
Roofing Product Control Examiner

Deck Type 7I: Recover, Insulated

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

System Type A(2): One or more layers of insulation adhered with approved asphalt or adhesive; membrane fully adhered.

All General and System Limitations apply.

Insulation Base Layer	**Fastener Type**	**Fastening Detail No.**	**Fasteners Per Board**	**Fastener Density**
One or more layers of the following insulations:				
Approved Type(s): **ACFoam II, Multi-Max FA, E'NRG'Y-2, PSI-25, ISO-95+, ISO + GL, Hy-Therm AP, Pyrox**				
Minimum: 1.4" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **High Density Fiberboard, FM-90 High Density, Armor Board Regular, Esgard, Celotex Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard, Kop-R Wood Fiber**				
Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Insulation (Optional) Top Layer	**Fastener Type**	**Fastening Detail No.**	**Fasteners Per Board**	**Fastener Density**
Approved Type(s): **High Density Fiberboard, FM-90 High Density**				
Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Note: Existing roof surface shall be primed with ASTM D 41 asphalt primer and allowed to dry prior to application of anchor sheet or base insulation layer. All insulation shall be adhered to the anchor sheet or primed substrate in full moppings of approved asphalt within the EVT range and at a rate of 20-40 lbs./sq. or with ¾" to 1" wide beads of Insta-Stik Adhesive, 12" o.c. (primer not required for use of Insta-Stik). Please refer to 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) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.

Barrier: (Optional) 1/2" or 5/8" gypsum or Dens Deck secured to the deck with the insulation.

Membrane: C3 Fleece Back Roof Cover fully adhered to the insulation with Cooley Bonding Adhesive (C-1006) applied at the rate of 1 gal./sq., or approved mopping asphalt applied at the rate of 25 lbs./sq..

Frank Zuloaga, RRC
Roofing Product Control Examiner

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

Maximum Fire Classification: See General Limitation #1.

Frank Zuloaga, RRC
Roofing Product Control Examiner

Deck Type 7I: Recover, Insulated

Deck Description: wood/steel/concrete/cementitious wood fiber/gypsum

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

All General and System Limitations apply.

Insulation (Optional) Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **ACFoam II, Multi-Max FA, E'NRG'Y-2, PSI-25, ISO-95+, ISO + GL, Hy-Therm AP, Pyrox**				
Minimum: 1.4" x 4' 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.

Insulation Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **ACFoam II, Multi-Max FA**				
Minimum: 1.5" x 4' x 4'	Dekfast #14, #15	[3]	8	1:2 ft.²
Minimum: 1.5" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft.²
Minimum: 1.5" x 4' x 4'	Isofast IF2	[3]	8	1:2 ft.²
Minimum: 1.5" x 4' x 4'	Olympic CD-10	[3]	8	1:2 ft.²
Minimum: 1.5" x 4' x 4'	Olympic NTB Magnum	[3]	8	1:2 ft.²
Approved Type(s): **ISO 95 +, ISO 95 + GL**				
Minimum: 1.4" x 4' x 4'	Dekfast #14, #15	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Isofast IF2	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic CD-10	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic NTB Magnum	[3]	8	1:2 ft.²
Approved Type(s): **E'NRG'Y-2, PSI-25, Hy-Therm AP, Pyrox**				
Minimum: 1.4" x 4' x 4'	Dekfast #14, #15	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Isofast IF2	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Insulfixx S or P	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic CD-10	[3]	8	1:2 ft.²
Minimum: 1.4" x 4' x 4'	Olympic NTB Magnum	[3]	8	1:2 ft.²

Frank Zuloaga, RRC
Roofing Product Control Examiner

Approved Type(s): **High Density Fiberboard, FM-90 High Density, Armor Board Regular, Esgard, Celotex Fiberboard, GAFTEMP Fiberboard, Huebert Fiberboard, Kop-R Wood Fiber**

Minimum:	½" x 4' x 4'	Dekfast #14, #15	[3]	8	1:2 ft.²
Minimum:	½" x 4' x 4'	Olympic #12, #14	[3]	8	1:2 ft.²
Minimum:	½" x 4' x 4'	Isofast IF2	[3]	8	1:2 ft.²
Minimum:	½" x 4' x 4'	Insulfixx S or P	[3]	8	1:2 ft.²
Minimum:	½" x 4' x 4'	Olympic CD-10	[3]	8	1:2 ft.²
Minimum:	½" x 4' x 4'	Olympic NTB Magnum	[3]	8	1:2 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. (See Miami-Dade County Roofing Application Standard PA 117 for fastening details.)

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.

Barrier: (Optional) 1/2" or 5/8" gypsum or Dens Deck secured to the deck with the insulation.

Membrane: C3 Fleece Back membrane fully adhered to the insulation with Cooley Bonding Adhesive (C-1006) applied at the rate of 1 gal./sq., or approved mopping asphalt applied at the rate of 25 lbs./sq..

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

Maximum Fire Classification: See General Limitation #1.

Frank Zuloaga, RRC
Roofing Product Control Examiner

Deck Type 7I: Recover, Insulated

Deck Description: wood/steel/concrete

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

All General and System Limitations apply.

Insulation Base Layer	**Fastener Type**	**Fastening Detail No.**	**Fasteners Per Board**	**Fastener Density**
One or more layers of the Base Layer insulation covered by one layer of the insulation listed as Top Layer.				
Approved Type(s): **EPS over gypsum barrier.**				
Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A
Insulation Base or Top Layer	**Fastener Type**	**Fastening Detail No.**	**Fasteners Per Board**	**Fastener Density**
One or more layers of the following insulations.				
Approved Type(s): **Celotherm, Conperl, GAFTEMP Permalite, FescoBoard**				
Minimum: 1" x 2' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Armor Board High Density, BP High Strength, FM-90 Traffic Top/High Density, ERS Redi-Deck, Riber Top C, E, S, GAFTEMP High Density, Roof Insulation Board, High Density Fiberboard, Fiber Base HD1, HD6, Structodek**				
Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Hy-Tec, Pyrox, Hy-Therm AP, Whiteline, Hy-Therm SP, E'NRG'Y-2, PSI-25, Mutli-Max, Thermaroof Plus, ACFoam II, Ultra/M-11ISO/glas, ISO 95+, ISO 95+GL, Ultragard, Fesco Foam**				
Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A

Note: All insulation shall have preliminary attachment, prior to the installation of the roofing membrane at a minimum application rate of two fasteners per board for insulation boards having no dimension greater than 4 ft., and four fasteners for any insulation board having no dimension greater than 8 ft.

Vapor Retarder: (Optional) Any UL or FMRC approved vapor retarder may be installed over the deck or the base layer of insulation.

Barrier: (Optional) 1/2" or 5/8" gypsum or Dens Deck secured to the deck with the insulation.

Frank Zuloaga, RRC
Roofing Product Control Examiner

Membrane:	C3 Membrane or C3 Fleece Backed Membrane attached through the prelimiary attached insulation as specified below.
Fastening #1:	Roof cover is rolled over the insulation and its 2" laps are sealed. Membrane is mechanically attached using SFS Isofast IF/IG-82x40 plates and IF or IG screws (wood or steel only), Olympic 2" round steel, ASAP or Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast or Solweld plates with Dekfast #14 or #15 screws, or Solweld plates with HD Insulfixx spaced 6" o.c. in rows 8 ft. apart or 12" o.c. in rows 4 ft. apart. Fastener rows are stripped in with 6" wide strips of membrane or 6" diameter membrane caps, heat or solvent welded.
Fastening #2:	Membrane is mechanically attached using Olympic 2" round steel, ASAP, or Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast or Solweld plates with Dekfast #14 or #15 screws, or Solweld plates with HD Insulfixx spaced 18" o.c. through 3" wide laps spaced 48"apart.
Fastening #3:	Roof cover is rolled over the insulation and its 2" laps are sealed. Cooley Plate Adhesive is liberally applied to the bottom of the Solweld plates. Membrane is mechanically attached using the adhesive coated Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast #14 or #15 screws, or HD Insulfixx spaced 18" o.c. in rows spaced 48"apart. 6" diameter membrane caps is coated with Cooley Plate Adhesive and placed over the fastener/plate head.
Fastening #4:	78" wide membrane is mechanically attached using Olympic 2" round steel or ASAP plates with Olympic Standard (wood or steel only), Heavy Duty Screws, or CD-10 (concrete), Dekfast plates with Dekfast Omega, #14 or #15 screws or HD Insulfixx S spaced 18" o.c. through 6" wide laps spaced 72"apart.
Maximum Design Pressure:	-45 psf (See General Limitation # 7)
Maximum Fire Classification:	See General Limitation #1.

Frank Zuloaga, RRC
Roofing Product Control Examiner

Deck Type 7: Recover, Noninsulated.

Deck Description: wood/steel/concrete

System Type E: Membrane mechanically attached to deck.

All General and System Limitations apply.

Barrier: (Optional) 1/2" or 5/8" gypsum or Dens Deck secured to the deck with 4 approved fasteners per board.

Membrane: C3 Membrane or C3 Fleece Backed Membrane attached as specified below.

Fastening #1: Roof cover is rolled over the insulation and its 2" laps are sealed. Membrane is mechanically attached using SFS Isofast IF/IG-82x40 plates and IF or IG screws (wood or steel only), Olympic 2" round steel, ASAP or Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast or Solweld plates with Dekfast #14 or #15 screws, or Solweld plates with HD Insulfixx spaced 6" o.c. in rows 8 ft. apart or 12" o.c. in rows 4 ft. apart. Fastener rows are stripped in with 6" wide strips of membrane or 6" diameter membrane caps, heat or solvent welded.

Fastening #2: Membrane is mechanically attached using Olympic 2" round steel, ASAP, or Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast or Solweld plates with Dekfast #14 or #15 screws, or Solweld plates with HD Insulfixx spaced 18" o.c. through 3" wide laps spaced 48"apart.

Fastening #3: Roof cover is rolled over the insulation and its 2" laps are sealed. Cooley Plate Adhesive is liberally applied to the bottom of the Solweld plates. Membrane is mechanically attached using the adhesive coated Solweld plates with Olympic Standard (wood or steel only), Heavy Duty Screws or CD-10 (concrete only), Dekfast #14 or #15 screws, or HD Insulfixx spaced 18" o.c. in rows spaced 48"apart. 6" diameter membrane caps is coated with Cooley Plate Adhesive and placed over the fastener/plate head.

Fastening #4: 78" wide membrane is mechanically attached using Olympic 2" round steel or ASAP plates with Olympic Standard (wood or steel only), Heavy Duty Screws, or CD-10 (concrete), Dekfast plates with Dekfast Omega, #14 or #15 screws or HD Insulfixx S spaced 18" o.c. through 6" wide laps spaced 72"apart.

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

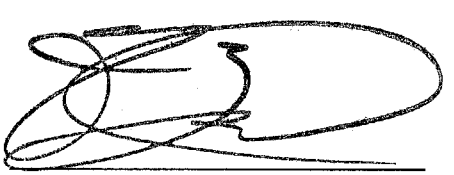
Maximum Fire Classification: See General Limitation #1.

Frank Zuloaga, RRC
Roofing Product Control Examiner

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.



Frank Zuloaga, RRC
Roofing Product Control Examiner

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 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 Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**

Frank Zuloaga, RRC
Roofing Product Control Examiner

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 20.

END OF THIS ACCEPTANCE

Frank Zuloaga, RRC
Roofing Product Control Examiner