MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
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PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Siplast, Inc.
1111 Highway 67 S
Arkadelphia AR 71923

Your application for Product Approval of:
Siplast Modified Bitumen Roof Systems
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.: 00-0118.03

Expires: 04/14/2003

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 Dade County, Florida under the conditions set forth above.

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

Approved: 04/14/2000

Internet mail address: postmaster@buildingcodeonline.com **Homepage: http://www.buildingcodeonline.com**

ROOFING ASSEMBLY NOTICE OF ACCEPTANCE

Applicant:
Siplast
Xerox Centre
Suite 1600
222 West Las Colinas Blvd.
Irving, Texas 75039

Product Control No.: **00-0118.03**

Approval Date: **April 14, 2000**

Expiration Date: **April 14, 2003**

Category: Roofing
Sub-Category: Modified Bitumen

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
IREX HT	3.28' x 34'; 89 lbs./sq.	ASTM D 5147	High-melt asphalt sheet with fiberglass scrim reinforcement for use as a base ply sheet for the Veral system.
IREX PR	3.28' x 34'; 89 lbs./sq.	ASTM D 5147	High-melt asphalt sheet with polyester mat / fiberglass scrim reinforcement for use as a mechanically fastened base sheet with the Veral system.
IREX 40	3.28' x 34'; 89 lbs./sq.	ASTM D 5147	High-melt asphalt sheet with random fiberglass mat reinforcement for use as the base ply sheet for a Veral system.
IREX 30	3.28' x 34'; 74 lbs./sq.	ASTM D 5147	High-melt asphalt sheet with random fiberglass mat reinforcement for use as the base ply sheet for a Veral system.
PA 311/311 C Adhesive	5 or 55 gal.	ASTM D 4479	Blend of adhesive asphalts and quick-drying solvents.
PA 1021 Plastic Cement	5 gal.	ASTM D 4586	Asphalt cutback reinforced general purpose cement with non-asbestos fibers.
PA 1125 Asphalt Primer	5 or 55 gal.	ASTM D 41	Asphalt primer.
Parabase	3' x 108'	ASTM D 4601	Asphalt coated fiberglass base sheet for mechanically fastened applications.
Parabase Plus	3.28' x 102.3'; 28 lbs./sq.	ASTM D 5147	Elastomeric asphalt coated base sheet.

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Product	Dimensions	Test Specification	Product Description
Paradiene 20 HV	3.28' x 33.5'; 90 lbs./sq.	ASTM D 5147	Heavy duty asphalt elastomer sheet with random fiberglass mat reinforcement used as a base ply of a Paradiene 20/30 system.
Paradiene 20 HVTG	3.28' x 33.5'; 100 lbs./sq.	ASTM D 5147	Heavy duty asphalt elastomer sheet with random fiberglass mat reinforcement used as a base ply of a Paradiene 20TG/30TG system.
Paradiene 30 HTFR	3.28' x 33.5'; 87 lbs./sq.	ASTM D 5147	Fire-rated asphalt elastomer sheet with mineral surfacing and fiberglass scrim reinforcement for use as the top ply of a Paradiene 20/30 FR system.
Paradiene 30 FRTG	3.28' x 25.25'; 80 lbs./sq.	ASTM D 5147	Fire rated asphalt elastomer sheet with mineral surfacing and random fiberglass mat reinforcement for use as the top ply sheet of a Paradiene 20/30 TG Series system.
Paradiene 30 HTFRTG	3.28' x 25.25'; 80 lbs./sq.	ASTM D 5147	Fire rated asphalt elastomer sheet with mineral surfacing and fiberglass scrim reinforcement for use as the top ply of a Paradiene TG Series system.
Paradiene 30	3.28' x 33.5'; 85 lbs./sq.	ASTM D 5147	Asphalt elastomer sheet with mineral surfacing and random glass mat reinforcement, for use as the top ply of a Paradiene 20/30 system.
Paradiene 20	3.28' x 50'; 90 lbs./ sq.	ASTM D 5147	Asphalt elastomer sheet with random fiberglass mat reinforcement used as the base ply of a Paradiene 20/30 system.
Paradiene 30 HT	3.28' x 33.5'; 85 lbs./sq.	ASTM D 5147	Asphalt elastomer sheet with mineral surfacing and fiberglass scrim reinforcement for use as the top ply of a Paradiene 20/30 system.
Paradiene 20 HT	3.28' x 50'; 90 lbs./sq.	ASTM D 5147	Asphalt elastomer sheet with fiberglass scrim reinforcement for use as a base ply of a Paradiene 20/30 system.
Paradiene 20 HTTG	3.28' x 33.5'; 70 lbs./sq.	ASTM D 5147	Asphalt elastomer sheet with fiberglass scrim reinforcement for use as a base ply of a Paradiene 20/30 system.

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Product	Dimensions	Test Specification	Product Description
Paradiene 20 EG	3.28' x 33.5'; 90 lbs./sq.	ASTM D 5147	Heavy duty asphalt elastomer sheet with fiberglass scrim reinforcement for use as a base ply in Paradiene systems.
Paradiene 20 TG	3.28' x 33.5'; 70 lbs./sq.	ASTM D 5147	Asphalt elastomer sheet with random fiberglass reinforcement used as the base ply of a Paradiene 20/30 TG Series system.
Paradiene 20 PR	3.28' x 50'; 90 lbs./sq.	ASTM D 5147	Asphalt elastomer sheet with polyester fiberglass scrim composite reinforcement used as the top ply of a Paradiene 20/20 PR system having a gravel surfacing. Has additional puncture resistance.
Paradiene 30 HTTG	3.28' x 25.25'; 80 lbs./sq.	ASTM D 5147	Asphalt elastomer sheet with mineral surfacing and fiberglass scrim reinforcement for use as the top ply of a Paradiene 20/30 TG Series system requiring high tensile strength.
Paradiene 30FR	3.28' x 33.5'; 85 lbs./sq.	ASTM D 5147	Asphalt elastomer sheet with mineral surfacing and random glass mat reinforcement, for use as the top ply of a Paradiene 20/30 system.
Paradiene 30TG	3.28' x 25.25'; 80 lbs./sq.	ASTM D 5147	Fire rated asphalt elastomer sheet with mineral surfacing and random fiberglass mat reinforcement for use as the top ply sheet of a Paradiene 20/30 TG Series system.
Paradiene 20EGTG	3.28' x 33.5'; 100 lbs./sq.	ASTM D 5147	Heavy duty asphalt elastomer sheet with fiberglass scrim reinforced for use as a base ply in Paradiene 20TG/30TG systems.
Paraglas	3' x 180'; 12 lbs./sq.	ASTM D 2178 Type IV	Asphalt coated fiberglass mat used as a base or ply sheet.
Paravent	3' x 108'	ASTM D 4601	Asphalt coated venting fiberglass base sheet with 1.5 inch perforations.
Veral Stainless Steel	3.28 ' x 33.5'; 105 lbs./sq.	ASTM D 5147	Stainless steel clad asphalt elastomer sheet with fiberglass scrim reinforcement for use as the top ply sheet of a Veral system.

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Product	Dimensions	Test Specification	Product Description
Veral Spectra Series	3.28' x 33.5'; 90 lbs./sq.	ASTM D 5147	Aluminum clad asphalt elastomer sheet with fiberglass scrim reinforcement and factory finished with a Kynar PVDF coating.
Veral Aluminum	3.28' x 33.5'; 90 lbs./sq.	ASTM D 5147	Aluminum clad asphalt elastomer sheet with woven fiberglass reinforcement for use as the top ply sheet of a Veral system.
Veral Copper	3.28' x 33.5'; 105 lbs./sq.	ASTM D 5147	Copper clad asphalt elastomer sheet with foverglass scrim reinforcement for use as the top ply of a Veral system.

Trade Names of Products Manufactured by Others:

Product	Dimensions	Test Specification	Product Description	Manufacturer
ACFoam I, II	various	PA 110	Polyisocyanurate foam insulation.	Atlas Energy Products (with current PCA)
Dekfast Fastener		PA 114	Insulation fastener and metal or plastic plate.	Construction Fasteners (with current PCA)
FM-30, FM-45, FM-60, FM-90 Fasteners		PA 114	Base ply fastening systems for lightweight concrete decks.	ES Products, Inc. (with current PCA)
Nail-Tite Type 'R'		PA 114	Galvanized steel base ply fastener for lightweight concrete decks.	ES Products, Inc. (with current PCA)
Nail-Tite Type 'A'		PA 114	Galvanized steel base ply fastener for lightweight concrete decks.	ES Products, Inc. (with current PCA)
GAF Gafglas #75	3' x 108'; Roll weight: 75 lbs.	ASTM D 4601	Fiberglass base sheet.	GAF Materials Corp. (with current PCA)
Asphalt		ASTM D 312, Type IV	Hot applied bitumen adhesive used in modified bitumen roof systems.	generic
Fiberglas	various	PA 110	Fiber glass roof insulation.	generic

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Product	Dimensions	Test Specification	Product Description	Manufacturer
High Density Wood Fiberboard	various	PA 110	Wood fiber insulation board.	generic
Perlite Insulation	various	PA 110	Perlite insulation board.	generic
Red Rosin	various		Rosin paper for barrier layer on wood decks.	generic
Roofing Nails	Minimum # 12	Pa 114	Corrosion resistant annular ring shank nails.	generic
Tin Caps	Min. 32 ga. x $1^5/_8$"		Corrosion resistant circular discs.	generic
Roofgrip Fastener		PA 114	Insulation fastener and metal plate.	ITW Buildex (with current PCA)
Karnak No. 108		ASTM D 41	Asphalt primer.	Karnak Corp. (with current PCA)
E'NRG'Y-2	various	PA 110	Polyisocyanurate foam insulation.	NRG Barriers, Inc. (with current PCA)
ISORoc	various	PA 110	Polyisocyanurate foam insulation.	NRG Barriers, Inc. (with current PCA)
Olympic Fastener		PA 114	Insulation fastener with steel or plastic plate.	Olympic Manufacturing Group (with current PCA)
Glasfast/Hextra		PA 114	Insulation fastener and metal plate for use on steel and wood decks.	Owens-Corning Fiberglas Corp. (with current PCA)
Glasfast/Striker		PA 114	Insulation fastener assembly and metal plate for use over concrete decks.	Owens-Corning Fiberglas Corp. (with current PCA)
Paroc	various	PA 110	Rockwood insulation.	Partek, Inc. (with current PCA)
Insulfixx Fastener		PA 114	Insulation fastener and steel plate.	SFS/Stadler (with current PCA)
Tru-Fast Fastener		PA 114	Insulation fastener with steel plate.	Tru-Fast (with current PCA)

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EVIDENCE SUBMITTED

Test Agency/Identifier	Name	Report	Date
Factory Mutual Research Corporation	Current Insulation Attachment Requirements	FMRC 1996	01.01.96
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 2X1A2.AM	11.04.93
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 0T0A2.AM	10.24.91
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 1M9A7.AM	09.03.86
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 0T2A7.AM	10.28.91
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 1V2A3.AM	06.29.92
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 0G6A0.AM	
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 2Y1A1.AM	04.15.96
Factory Mutual Research Corporation	Wind Uplift FMRC 4470 - PA 114	J.I. 3Z3A7.AM	04.12.96
Underwriters Laboratories, Inc.	Fire Resistance Classification UL 790 - PA 114	R10630	01.01.96
Warnock Hersey, Inc.	Physical Properties ASTM D 5147 - PA 110	WH - 1234	12.15.93
Exterior Research & Design, LLC. - Trinity Engineering	Wind Uplift PA 114	#4701.02.96-1	02.28.96
Exterior Research & Design, LLC. - Trinity Engineering	Wind Uplift PA 114	#4701.09.96-1	08.22.96

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SYSTEMS

Membrane Type: SBS

Deck Type 1I: Wood, Insulated, New Construction

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

System Type A: Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System limitations apply.

Insulation Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
One or more layers of any of the following insulations:				
Approved Type(s): **E'NRG'Y-2, ACFoam-I, II** Minimum: 1" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **ISORoc** Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Fiberglas** Minimum: $^{15}/_{16}$" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Perlite** Minimum: ¾" x 2' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **High Density Wood Fiberboard** Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs. 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Anchor Sheet: Parabase, Parabase Plus or Gafglas #75

Fastening: Anchor sheet shall be lapped 4", fastened with approved roofing nails and tin caps 9" o.c. at the lap and two rows staggered in the center of the sheet 12" o.c.

Base Sheet: (Optional) One or more plies Paraglas adhered to the insulation with approved mopping asphalt at an application rate of 20-25 lbs./sq.. See General Limitation #4.

Ply Sheet: Paradiene 20 TG, 20 HVTG, 20 HTTG or 20 EGTG adhered by torch, or Paradiene 20, 20 FR, 20 HT, 20 HV or 20 EG adhered with approved mopping

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	asphalt at an application rate of 20-25 lbs./sq. or with PA 311 adhesive. See General Limitation #4.
Membrane:	Paradiene 30 FR or 30HTFR adhered in approved mopping asphalt or PA 311 adhesive; Paradiene 30 FRTG, or 30 HTFRTG adhered by torch.
Note:	**Refer to manufacturer's specifications for specific application requirements.**
Maximum Design Pressure:	-52 psf (See General Limitation #9)
Maximum Fire Classification:	See General Limitation #1
Maximum Slope:	See General Limitation #1
Specification No.:	2030 IH, 2030 IA,2030 IH-T, 2030 IT

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Membrane Type: SBS Foil

Deck Type 1I: Wood, Insulated, New Construction

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

System Type A: Anchor sheet mechanically fastened; all layers of insulation adhered with approved asphalt.

All General and System limitations apply.

Insulation Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
One or more layers of any of the following insulations:				
Approved Type(s): **E'NRG'Y-2, ACFoam-I, II** Minimum: 1" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **ISORoc** Minimum: 1" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Fiberglas** Minimum: $^{15}/_{16}$" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Perlite** Minimum: ¾" x 2' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **High Density Wood Fiberboard** Minimum: ½" x 4' x 4'	N/A	N/A	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs. 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 may be used as a top layer placed with the polyisocyanurate side facing down.

Anchor Sheet: Parabase, Parabase Plus or Gafglas #75 mechanically fastened as detailed below:

Fastening: Anchor sheet shall be lapped 4", fastened with approved roofing nails and tin caps 9" o.c. in the lap and two rows staggered in the center of the sheet 12" o.c.

Base Sheet: (Optional) One or more plies Paraglas adhered to the insulation with approved mopping asphalt at an application rate of 20-25 lbs./sq.. See General Limitation #4.

Ply Sheet: IREX 30, IREX 40 or IREX HT adhered in approved mopping asphalt. IREX 40 or IREX HT may be applied by torch. See General Limitation #4.

Membrane: Veral adhered in approved mopping asphalt or adhered by torch.

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Note:	**Refer to manufacturer's specifications for specific application requirements.**
Surfacing:	None
Maximum Design Pressure:	-52 psf (See General Limitation #9)
Maximum Fire Classification:	See General Limitation #1.
Maximum Slope:	See General Limitation #1
Specification No.:	4040 CPT

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Membrane Type: SBS

Deck Type 1I: Wood, Insulated, New Construction

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

System Type B: Base layer of insulation mechanically attached, top layer adhered with approved asphalt.

All General and System limitations apply.

Insulation Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **E'NRG'Y-2, ACFoam-I, II**				
Minimum: 1.3" x 3' x 4'	Dekfast #12 S	[2]	4	1:3 ft.^{2}
Minimum: 1.3" x 3' x 4'	Dekfast #14 S	[2]	4	1:3 ft.^{2}
Minimum: 1.3" x 3' x 4'	Roofgrip S/P	[2]	4	1:3 ft.^{2}
Approved Type(s): **ISORoc**				
Minimum: 1.3" x 4' x 4'	Dekfast #12 S	[3]	6	1:2.67 ft.^{2}
Minimum: 1.3" x 4' x 4'	Dekfast #14 S	[3]	6	1:2.67 ft.^{2}
Minimum: 1.3" x 4' x 4'	Roofgrip S/P	[3]	6	1:2.67 ft.^{2}
Approved Type(s): **Fiberglas**				
Minimum: 2-$^7/_{16}$" x 3' x 4'	Glasfast	[2]	4	1:3 ft.^{2}
Minimum: 2-$^7/_{16}$" x 3' x 4'	SFS ES	[2]	4	1:3 ft.^{2}
Approved Type(s): **Perlite**				
Minimum: ¾" x 2' x 4'	Dekfast #12/S	[1]	4	1:2 ft.^{2}
Minimum: ¾" x 2' x 4'	Dekfast #14/S	[1]	4	1:2 ft.^{2}
Minimum: ¾" x 2' x 4'	Roofgrip/S	[1]	4	1:2 ft.^{2}

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Miami-Dade County Roofing Application Standard RAS 117 for fastening details).

Insulation Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **Perlite**				
Minimum: ¾" x 2' x 4'	N/S	N/A	N/A	N/A
Approved Type(s): **High Density Wood Fiberboard**				
Minimum: 1/2" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Fiberglas**				
Minimum: 2-$^7/_{16}$" x 3' x 4'	N/A	N/A	N/A	N/A

Apply top layer of insulation in a full mopping of any approved mopping asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as Base Layer

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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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet:	(Optional) One or more plies of Paraglas adhered to the insulation with approved mopping asphalt at rate of 20-25 lbs./sq. See General Limitation #4
Ply Sheet:	Paradiene 20 TG, 20 HVTG, 20 HTTG or 20 EGTG adhered by torch, or Paradiene 20, 20 FR, 20 HT, 20 HV or 20 EG adhered with approved mopping asphalt at an application rate of 20-25 lbs./sq. or with PA 311 adhesive. See General Limitation #4
Membrane:	Paradiene 30 FR or 30 HTFR adhered in approved mopping asphalt at an application rate of 20-25 lbs./sq. or with PA 311 adhesive, or Paradiene 30 FRTG, or 30 HTFRTG adhered by torch.
Note:	**Refer to manufacturer's specifications for specific application requirements.**
Maximum Design Pressure:	-52 psf (See General Limitation #9)
Maximum Fire Classification:	See General Limitation #1
Maximum Slope:	See General Limitation #1
Specification No.:	2030 IH, 2030 IA,2030 IH-T, 2030 IT

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Membrane Type: SBS Foil

Deck Type 1I: Wood, Insulated, New Construction

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

System Type B: Base layer of insulation mechanically attached, top layer adhered with approved asphalt.

All General and System limitations apply.

Insulation Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **E'NRG'Y-2, ACFoam-I, II**				
Minimum: 1.3" x 3' x 4'	Dekfast #12 S	[2]	4	1:3 ft.^{2}
Minimum: 1.3" x 3' x 4'	Dekfast #14 S	[2]	4	1:3 ft.^{2}
Minimum: 1.3" x 3' x 4'	Roofgrip S/P	[2]	4	1:3 ft.^{2}
Approved Type(s): **ISORoc**				
Minimum: 1.3" x 4' x 4'	Dekfast #12 S	[3]	6	1:2.67 ft.^{2}
Minimum: 1.3" x 4' x 4'	Dekfast #14 S	[3]	6	1:2.67 ft.^{2}
Minimum: 1.3" x 4' x 4'	Roofgrip S/P	[3]	6	1:2.67 ft.^{2}
Approved Type(s): **Fiberglas**				
Minimum: 2-$^7/_{16}$" x 3' x 4'	Glasfast	[2]	4	1:3 ft.^{2}
Minimum: 2-$^7/_{16}$" x 3' x 4'	SFS ES	[2]	4	1:3 ft.^{2}
Approved Type(s): **Perlite**				
Minimum: ¾" x 2' x 4'	Dekfast #12/S	[1]	4	1:2 ft.^{2}
Minimum: ¾" x 2' x 4'	Dekfast #14/S	[1]	4	1:2 ft.^{2}
Minimum: ¾" x 2' x 4'	Roofgrip/S	[1]	4	1:2 ft.^{2}

Note: Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Miami-Dade County Roofing Application Standard RAS 117 for fastening details).

Insulation Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **Perlite**				
Minimum: ¾" x 2' x 4'	N/S	N/A	N/A	N/A
Approved Type(s): **High Density Wood Fiberboard**				
Minimum: 1/2" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Fiberglas**				
Minimum: 2-$^7/_{16}$" x 3' x 4'	N/A	N/A	N/A	N/A

Note: All insulation shall be adhered to the anchor sheet in full moppings of approved hot asphalt within the EVT range and at a rate of 20-40 lbs. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as base

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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 may be used as a top layer placed with the polyisocyanurate side facing down.

Base Sheet:	(Optional) One or more plies Paraglas adhered to the insulation with approved mopping asphalt at an application rate of 20-25 lbs./sq.. See General Limitation #4.
Ply Sheet:	IREX 30, IREX 40 or IREX HT adhered in approved mopping asphalt. IREX 40 or IREX HT may be applied by torch. See General Limitation #4
Membrane:	Veral adhered in approved mopping asphalt or adhered by torch.
Note:	**Refer to manufacturer's specifications for specific application requirements.**
Surfacing:	None
Maximum Design Pressure:	-52 psf (See General Limitation #9)
Maximum Fire Classification:	See General Limitation #1
Maximum Slope:	See General Limitation #1.
Specification No.:	4040 CPT

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Membrane Type: SBS

Deck Type 1I: Wood, Insulated, New Construction

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

System Type C: All of insulation simultaneously attached.

All General and System limitations apply.

Insulation Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **E'NRG'Y-2, ACFoam-I, II**				
Minimum: 1.3" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **ISORoc**				
Minimum: 1.3" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Fiberglas**				
Minimum: 2-$^{7}/_{16}$" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Perlite**				
Minimum: ¾" x 2' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **High Density Wood Fiberboard**				
Minimum: 1/2" 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 panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining e same fastener density. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment.

Insulation Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **Fiberglas**				
Minimum: 2-$^{7}/_{16}$" x 3' x 4'	Glasfast	[2]	4	1:3 ft.^{2}
Minimum: 2-$^{7}/_{16}$" x 3' x 4'	SFS ES	[2]	4	1:3 ft.^{2}
Approved Type(s): **Perlite**				
Minimum: ¾" x 2' x 4'	Dekfast #12/S	[1]	4	1:2 ft.^{2}
Minimum: 1" x 2' x 4'	Dekfast #14/S	[1]	4	1:2 ft.^{2}
Minimum: 1" x 2' x 4'	Roofgrip S/P	[1]	4	1:2 ft.^{2}
Approved Type(s): **High Density Wood Fiberboard**				
Minimum: ½" x 4' x 4'	DekFast S	[3]	4	1:4 ft^2
Minimum: ½" x 4' x 4'	Glasfast	[3]	4	1:4 ft^2

Note: Refer to Metro-Dade County Roofing Application Standards PA 117 for insulation attachment fastening details.

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Base Sheet:	(Optional) One or more plies Paraglas adhered to the insulation with approved mopping asphalt at an application rate of 20-25 lbs./sq. See General Limitation #4
Ply Sheet:	Paradiene 20 TG, 20 HVTG, 20 HTTG or 20 EGTG adhered by torch, or Paradiene 20, 20 FR, 20 HT, 20 HV or 20 EG adhered with approved mopping asphalt or PA 311 adhesive. See General Limitation #4
Membrane:	Paradiene 30 FR or 30 HTFR adhered in approved mopping asphalt at a rate of 20-25 lbs./sq. or with PA 311 adhesive, or Paradiene 30 FRTG, or 30 HTFRTG adhered by torch.

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

Maximum Design Pressure:	-52 psf (See General Limitation #9)
Maximum Fire Classification:	See General Limitation #1
Maximum Slope:	See General Limitation #1
Specification No.:	2030 IH, 2030 IA,2030 IH-T, 2030 IT

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Membrane Type: SBS Foil

Deck Type 1I: Wood, Insulated, New Construction

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank

System Type C: All layers of insulation simultaneously attached.

All General and System limitations apply.

Insulation Base Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **E'NRG'Y-2, ACFoam-I, II**				
Minimum: 1.3" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **ISORoc**				
Minimum: 1.3" x 4' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Fiberglas**				
Minimum: 2-$^{7}/_{16}$" x 3' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **Perlite**				
Minimum: ¾" x 2' x 4'	N/A	N/A	N/A	N/A
Approved Type(s): **High Density Wood Fiberboard**				
Minimum: 1/2" 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 panels listed are minimum sizes and dimensions; if larger panels are used, the number of fasteners shall be increased maintaining e same fastener density. Please refer to Miami-Dade County Roofing Application Standard RAS 117 for insulation attachment.

Insulation Top Layer	Fastener Type	Fastening Detail No.	Fasteners Per Board	Fastener Density
Approved Type(s): **Fiberglas**				
Minimum: 2-$^{7}/_{16}$" x 3' x 4'	Glasfast	[2]	4	1:3 ft.^{2}
Minimum: 2-$^{7}/_{16}$" x 3' x 4'	SFS ES	[2]	4	1:3 ft.^{2}
Approved Type(s): **Perlite**				
Minimum: ¾" x 2' x 4'	Dekfast #12/S	[1]	4	1:2 ft.^{2}
Minimum: 1" x 2' x 4'	Dekfast #14/S	[1]	4	1:2 ft.^{2}
Minimum: 1" x 2' x 4'	Roofgrip S/P	[1]	4	1:2 ft.^{2}
Approved Type(s): **High Density Wood Fiberboard**				
Minimum: ½" x 4' x 4'	DekFast S	[3]	4	1:4 ft^2
Minimum: ½" x 4' x 4'	Glasfast	[3]	4	1:4 ft^2

Note: Refer to Metro-Dade County Roofing Application Standards PA 117 for insulation attachment fastening details.

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Base Sheet:	(Optional) One or more plies Paraglas adhered to the insulation with approved mopping asphalt at an application rate of 20-25 lbs./sq. See General Limitation #4
Ply Sheet:	IREX 30, IREX 40 or IREX HT adhered in approved mopping asphalt at an application rate of 20-25 lbs./sq. IREX 40 or IREX HT may be applied by torch. See General Limitation #4
Membrane:	Veral adhered in approved mopping asphalt or adhered by torch.

Note: Refer to manufacturer's specifications for application instructions.

Surfacing:	None
Maximum Design Pressure:	-52 psf (See General Limitation #9)
Maximum Fire Classification:	See General Limitation #1.
Maximum Slope:	See General Limitation #1.
Specification No.:	4040 CPT

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Membrane Type: SBS

Deck Type 1: Wood, Non-insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank decks

System Type E: Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: Parabase, Parabase Plus or Gafglas #75, mechanically fastened as detailed below:

Fastening: Base sheet shall be lapped 4", fastened with approved roofing nails and tin caps 9" o.c. in the lap and two rows staggered in the center of the sheet 12" o.c.

Ply Sheet: Paradiene 20 TG, 20 HVTG, 20 HTTG or 20 EGTG, adhered by torch, or Paradiene 20, 20 FR, 20 HT, 20 HV or 20 EG adhered with approved mopping asphalt at an application rate of 20-25 lbs./sq. or with PA 311 adhesive.

Membrane: Paradiene 30 FR or 30 HT FR adhered with approved roofing asphalt or PA 311 adhesive, or Paradiene 30 FRTG or 30 HTFRTG adhered by torch.

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

Surfacing: None

Maximum Design Pressure: -52 psf. (See General Limitation #9)

Maximum Fire Classification: See General Limitation #1

Maximum Slope: See General Limitation #1

Specification No.: 2030 PSH, 2030 PSA, 2030 PST, 2030 WSH, 2030 WSA, 2030 WST

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Membrane Type: SBS Foil

Deck Type 1: Wood, Non-insulated

Deck Description: $^{19}/_{32}$" or greater plywood or wood plank decks

System Type E: Base sheet mechanically fastened.

All General and System limitations apply.

Base Sheet: Parabase, Parabase Plus or Gafglas #75

Fastening: Base sheet shall be lapped 4", fastened with approved roofing nails and tin caps 9" o.c. in the lap and two rows staggered in the center of the sheet 12" o.c.

Ply Sheet: IREX 30, IREX 40 or IREX HT, adhered in approved mopping asphalt at an application rate of 20-25 lbs./sq.. IREX 40 or IREX HT may be applied by torch.

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

Note: See manufacturer's specifications for application instructions.

Surfacing: None

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 red rosin sheet shall be installed on all wood plank decks to eliminate asphalt seepage and the bonding of base sheet to wood plank deck. Red rosin sheet may also be installed on plywood decks as an option.

2 Pre-assembled 'Cap Nail' shall not be used for base sheet attachment

3 Veral may be applied in approved mopping asphalt at slopes ranging from ½":12" to 2½":12". Veral may be torched at any slope above ½":12"

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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 Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.

6 Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer or Architect may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Miami-Dade County Testing Application Standards 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 increased 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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Siplast
Xerox Center
Suite 1600
222 West Las Colinas Blvd.
Irving, Texas 75039

ACCEPTANCE NO: _00-0188.03

APPROVED: April 14, 2000
EXPIRES: April 14, 2003

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 23.

END OF THIS ACCEPTANCE

Frank Zuloaga, RRC
Roofing Product Control Examiner