MIAMI-DADE

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
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PRODUCT CONTROL DIVISION
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PRODUCT CONTROL NOTICE OF ACCEPTANCE

G.A.F. Materials Corporation
1361 Alps Road.
Wayne ,NJ 07470

Your application for Notice of Acceptance (NOA) of:
Everguard Single Ply Roof Systems Over Gypsum Decks
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.: 01-0227.09
EXPIRES: 06/14/2006

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: 06/14/2001

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: PVC Single Ply

Approval Date: **June 14, 2001**

Expiration Date: **June 14, 2006**

Deck Type: Gypsum
Maximum Design Pressure -45 psf
Fire Classification: See General Limitation #1

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specification	Product Description
EverGuard EGSR 40-100 Mil Membrane	78" x 108" 702 sf. roll	ASTMD 4434	40-100 mil thermoplastic alloy field membrane.
EverGuard EGSR 40-100 Mil Perimeter Sheet	39" x 108' 351 sf. roll	ASTM D 4434	40-100 mil thermoplastic alloy perimeter sheet.
EverGuard EGSR 40-100 Mil Membrane	52" x 108'	ASTM D 4434	40-100 mil thermoplastic alloy field membrane.
EverGuard EGSR Reinforced Flashing Membrane	6", 8", 12", 18" & 24" variable length rolls	ASTM D 4434	40-100 mil thermoplastic flashing membrane.
EverGuard UN-55 Unreinforced 55 Mil Membrane	24" x 30' LF 60 sf. Roll	ASTM D 4434	55 mil unreinforced flashing membrane
EverGuard Coated Metal	4' x 8' 4' x 10' sheets	US Commercial Standard CS-245-62	EverGuard membrane laminated 24 Ga. galvanized steel.
EverGuard EGFB Fleece Back 40-100 Mil Membrane	76" x 90" 570 sf. Roll	ASTM D 4434	40-100 mil thermoplastic alloy fleece back field membrane.
EverGuard EGFB Fleece Back 40-100 Mil Membrane	39" x 108' 351 sf. Roll	ASTM D 4434	40-100 mil thermoplastic alloy fleece back perimeter sheet.
EverGuard EGFB Fleece Back Reinforced Flashing Membrane	12", 18"& 24" variable length rolls	ASTM D 4434	40-100 mil thermoplastic alloy fleece back flashing membrane.

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EverGuard Universal Corners	4" x 4" x 4" 20 pcs. crtn.	ASTM D 4434	Prefabricated molded one piece corners.
EverGuard Boots	1" - 8" od 6 pcs. crtn.	ASTM D 4434	Premolded vent pipe boots.
EverGuard Bonding Adhesive	5 gallon pails	proprietary	Adhesive for fully adhered systems and membrane flashing.
EverGuard Membrane Plates	2" round	PA 117	Round 2" nylon reinforced seam plate.
EverGuard Membrane Plates	2" round	PA 117	Round 2" galvalume seam plate.
EverGuard Membrane Plates	2-3/8" round	PA 117	Round 2-3/8" galvalume seam plate.
EverGuard Insulation Plates	3" round	PA 117	Round 3" plastic plate.
EverGuard Insulation Plates	3" round	PA 117	Round 3" galvalume plate.
EverGuard EGIN Fasteners	1 5/8" - 8" #12	PA 117	Self tapping coated screw w/#3 Phillips head.
EverGuard EGHD Fasteners	1 1/4" - 16" #14	PA 117	Self tapping coated screw w/#3 Phillips head.
EverGuard Aluminum Termination Bar	1/8 x 1" x 10	PA 114	Lip termination bar.
EverGuard Masonry Anchors	¼" x 1-2"	PA114(E) PA117	Masonry anchor with drive pin.
EverGuard Expansion Joint Cover	4"-8" x 50'		Low profile expansion joint cover.
EverGuard Standard Walkway	1/8" x 30" x 36"		Standard duty walkway pad.
EverGuard Heavy Duty Walkway	1/4" x 30" x 36"		Heavy duty walkway pad.
EverGuard Isocyanurate Insulation	4' x 4', 4' x 8' various thicknesses		Polyisocyanurate insulation.

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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)
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)

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Product	Dimensions	Test Specification	Product Description	Manufacturer
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)
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 Permalite	various	PA 110	Perlite insulation board.	GAF (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 / membrane fasteners	Construction Fasteners Inc. (with current NOA)
Omega	various	PA 114 PA 117	Stainless steel insulation / membrane fasteners	Construction Fasteners Inc. (with current NOA)

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Product	Dimensions	Test Specification	Product Description	Manufacturer
HD Insul-Fixx Fastener	various	PA 114 PA 117	Insulation / membrane fasteners	SFS Stadler (with current NOA)
Insul-Fixx P	3" round	PA 114 PA 117	3" round polyethylene stress plate.	SFS Stadler (with current NOA)
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 / membrane fasteners	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)
Olympic Fastener #12 or #14	various	PA 114 PA 117	Insulation / membrane fasteners.	Olympic (with current NOA)

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. 1W1A9.AM	80 Mil Class I wood, steel, concrete.	09/11/93
	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. 3W3A4.AM	C3 mechanically fastened steel, concrete.	11/22/93

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Test Agency/Identifier	Name	Report	Date
	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

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APPROVED ASSEMBLIES

Deck Type 5I: Poured Gypsum, Insulated, New Construction

Deck Description: Poured Gypsum

System Type A: All insulation layers are adhered to a mechanically attached anchor sheet. Membrane is subsequently fully or partially adhered to insulation.

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, EverGuard**				
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 shall be adhered to the anchor sheet in full mopping of approved hot asphalt within the EVT range and at a rate of 20-40 lbs/100 ft^2. Please refer to Roofing Application Standard PA 117 for insulation attachment. Insulation 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: 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/EverGuard Polymer fasteners at 1 per 2 sq. ft.

Membrane: EverGuard EGFB Fleece Back Roof Cover fully adhered to the anchor sheet or insulation with EverGuard 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 #9)

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Deck Type 5I: Poured Gypsum, Insulated, New Construction

Deck Description: Poured Gypsum

System Type C: All layers of insulation are mechanically attached to roof deck. Membrane is subsequently fully or partially adhered to insulation.

All General and System Limitations apply.

Insulation 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, EverGuard**				
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'	Olympic NTB Magnum	[3]	8	1:2 ft.^{2}
	EverGuard Polymer	[3]	8	1:2 ft.^{2}
Approved Type(s): **E'NRG'Y-2, PSI-25, ISO 95+, ISO 95+ GL, Hy-Therm AP, Pyrox**				
Minimum: 1.4" x 4' x 4'	Olympic NTB Magnum	[3]	8	1:2 ft.^{2}
	EverGuard Polymer	[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. Insulation fasteners shall be tested for withdrawal resistance in compliance with Testing Application Standard TAS 105 to confirm compliance with the wind load requirements. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

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: EverGuard EGFB Fleece Back Roof Cover fully adhered to the insulation with EverGuard Bonding Adhesive 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 #9)

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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, 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. **(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.)**

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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 11.

END OF THIS ACCEPTANCE

Frank Zuloaga, RRC
Roofing Product Control Examiner