

SECTION 00300

PROPOSAL

TO THE MAYOR AND COMMISSIONERS
CITY OF HOLLYWOOD, FLORIDA

SUBMITTED January 29th, 2015

Dear Mayor and Commissioners:

The undersigned, as BIDDER, hereby declares that the only person or persons interested in the Proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Proposal or in the Contract to be entered into; that this Proposal is made without connection with any other person, company or parties making a Bid or Proposal; and that it is in all respects fair and in good faith without collusion or fraud.

The BIDDER further declares that he has examined the site of the Work and informed himself fully in regard to all conditions pertaining to the place where the Work is to be done; that he has examined the Drawings and Specifications for the Work and contractual documents relative thereto, including the Notice to Bidders, Instructions to Bidders, Proposal Bid Form, Form of Bid Bond, Form of Contract and Form of Performance Bond, General, Supplementary and Technical Specifications, Addenda, Drawings, and Local Preference Program, Exhibit A, and has read all of the Provisions furnished prior to the opening of bids; and that he has satisfied himself relative to the work to be performed.

The undersigned BIDDER has not divulged to, discussed or compared his bid with other bidders and has not colluded with any other BIDDER of parties to this bid whatever.

If this Proposal is accepted, the undersigned BIDDER proposes and agrees to enter into and execute the Contract with the City of Hollywood, Florida, in the form of Contract specified; of which this Proposal, Instructions to Bidders, General Specifications, Supplementary Conditions and Drawings shall be made a part for the performance of Work described therein; to furnish the necessary bond equal to one hundred (100) percent of the total Contract base bid, the said bond being in the form of a Cash Bond or Surety Bond prepared on the applicable approved bond form furnished by the CITY; to furnish all necessary materials, equipment, machinery, tools, apparatus, transportation, supervision, labor and all means necessary to construct and complete the work specified in the Proposal and Contract and called for in the Drawings and in the manner specified; to commence Work on the effective date established in the "Notice to Proceed" from the ENGINEER; and to substantially complete all Contract Work within 60 days with final completion within 90 days, and stated in the "Notice to Proceed" or pay liquidated damages for each calendar day in excess thereof, or such actual and consequential damages as may result therefrom, and to abide by the Local Preference Ordinance.

The BIDDER acknowledges receipt of the following addenda:

No. <u>1</u>	Dated <u>January 21st, 2015</u>
No. _____	Dated _____
No. _____	Dated _____

And the undersigned agrees that in case of failure on his part to execute the said Contract and the Bond within ten (10) days after being presented with the prescribed Contract forms, the check or Bid Bond accompanying his bid, and the money payable thereon, shall be paid into the funds of the City of Hollywood, Florida, otherwise, the check or Bid Bond accompanying this Proposal shall be returned to the undersigned.

Attached hereto is a certified check on the

_____ Bank of _____

or approved Bid Bond for the sum of

10% of Bid Amount _____ Dollars (\$ ^{10%}_{of bid amount}), according to the conditions under the Instructions to Bidders and provisions therein.

NOTE: If a Bidder is a corporation, the legal name of the corporation shall be set forth below, together with signature(s) of the officer or officers authorized to sign Contracts on behalf of the corporation and corporate seal; if Bidder is a partnership, the true name of the firm shall be set forth below with the signature(s) of the partner or partners authorized to sign Contracts in behalf of the partnership; and if the Bidder is an individual, his signature shall be placed below; if a partnership, the names of the general partners.

WHEN THE BIDDER IS AN INDIVIDUAL:

N/A

(Signature of Individual)

N/A

(Printed Name of Individual)

N/A

(Address)

WHEN THE BIDDER IS A SOLE PROPRIETORSHIP OR OPERATES UNDER A TRADE NAME:

N/A

(Name of Firm)

N/A

(Address)

N/A

(Signature of Individual) (SEAL)

WHEN THE BIDDER IS A PARTNERSHIP:

N/A

(Name of Firm) A Partnership

N/A

(Address)

By: N/A

(SEAL)
(Partner)

Name and Address of all Partners:

N/A

N/A

WHEN THE BIDDER IS A JOINT VENTURE:

N/A

(Correct Name of Corporation)

By: N/A

(SEAL)
(Address)

N/A

(Official Title)

As Joint Venture
(Corporate Seal)

Organized under the laws of the State of N/A, and authorized by the law to make this bid and perform all Work and furnish materials and equipment required under the Contract Documents.

WHEN THE BIDDER IS A CORPORATION:

Infinity Roofing & Sheet Metal Inc

(Correct Name of Corporation)

By: John B. Mitala

(SEAL)

President

(Official Title)
1150 SW 10th Avenue Suite 201W
Pompano Beach, FL 33069

(Address of Corporation)

Organized under the laws of the State of Florida, and authorized by the law to make this bid and perform all Work and furnish materials and equipment required under the Contract Documents.

CERTIFIED COPY OF RESOLUTION OF
BOARD OF DIRECTORS

Infinity Roofing & Sheet Metal Inc

(Name of Corporation)

RESOLVED that John B. Mitala

(Person Authorized to Sign)

President of Infinity Roofing & Sheet Metal Inc

(Title) (Name of Corporation)

be authorized to sign and submit the Bid or Proposal of this corporation for the following project:

CITY OF HOLLYWOOD

SRWWTP Sludge Building Roof Replacement

Project No.: 14-9115

The foregoing is a true and correct copy of the Resolution adopted by

Infinity Roofing & Sheet Metal Inc at a meeting of its Board of
(Name of Corporation)

Directors held on the 26th day of January, 2015.

By: John B. Mitala

Title: President

(SEAL)

The above Resolution MUST BE COMPLETED if the Bidder is a Corporation.

- END OF SECTION -

SECTION 00420

INFORMATION REQUIRED FROM BIDDERS

GENERAL INFORMATION

The Bidder shall furnish the following information. Failure to comply with this requirement may cause its rejection. Additional sheets shall be attached as required.

1. Contractor's Name/Address: Infinity Roofing & Sheet Metal Inc
1150 SW 10th Avenue Suite 201W, Pompano Beach, FL 33069

2. Contractor's Telephone Number: 954-917-7107
and e-mail address: jmartinez@infinityrfg.com

3. Contractor's License (attach copy): See attached CCC057467
Primary Classification: State Certified Roofing Contractor
Broward County License Number (attach copy): N/A

4. Number of years as a Contractor in construction work of the type involved in this
Contract: Sixteen (16)

5. List the names and titles of all officers of Contractor's firm:
John B. Mitala, President
Hector Javier Mendez, Vice President

6. Name of person who inspected site or proposed work for your firm:
Name: Javier Martinez
Date of Inspection: January 6th, 2015

7. What is the last project of this nature you have completed?
Florida Power & Light Company in Port Everglades, Fort Lauderdale

8. Have you ever failed to complete work awarded to you; if so, where and why?

No.

9. Name three individuals or corporations for which you have performed work and to which you refer:

Florida Power & Light Company

Waas Construction- Colony Hotel in Palm Beach

Turner Construction- Florida Atlantic University Building # 5

10. List the following information concerning all contracts on hand as of the date of submission of this proposal (in case of co-venture, list the information for all coventures).

Name of Project	City	Total Contract Value	Contracted Date of Completion	% Completion to Date
WTVX Studio # 2	Mangonia Park, FL	\$ 165,653.00	April 2015	0%
Archdiocese of Miami	Miami, FL	\$ 624,000.00	July 2015	0%
Warehouse Management Services	Delray, FL	\$ 115,190.00	May 2015	0%
Warehouse Management Services	Delray, FL	\$ 205,920.00	May 2015	0%

(Continue list on inset sheet, if necessary)

11. What equipment do you own that is available for the work?

We own all equipment necessary to complete any roofing project such as: foam adhesive machine, torches, propane tanks, Safety equipment, hand tools, and any other equipment necessary to complete the work with.

12. What equipment will you purchase for the proposed work?

None.

NOTE:

If requested by CITY, the Bidder shall furnish a notarized financial statement, references and other information, sufficiently comprehensive to permit an appraisal of its current financial condition.

LIST OF SUBCONTRACTORS

The Bidder shall list below the name and address of each Subcontractor who will perform work under this Contract in excess of one-half percent of the total bid price, and shall also list the portion of the work which will be done by such Subcontractor. After the opening of Proposals, changes or substitutions will be allowed with written approval of the City of Hollywood. Subcontractors must be properly licensed and hold a valid Hollywood Certificate of Competency.

	Work to be Performed	Subcontractor's Name / Address
1.	Mechanical Work & Electrical	Sun State Mechanical, 5800 SW 25th ST, West Park, FL 33023
2.	Plumbing	H & H Plumbing, 98 Spanish River Blvd, Boca Raton, FL 33431
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

NOTE: Attach additional sheets if required.

- END OF SECTION -

SECTION 00301

**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC UTILITIES
ENGINEERING & CONSTRUCTION DIVISION**

PROPOSAL BID FORM (Rev. 1, 1/21/15)

Project Name: SRWWTP Sludge Building Roof Replacement
Project No.: 14-9115

If this Proposal is accepted, the undersigned Bidder agrees to complete all work under this contract within 60 calendar days following the issuance of the Notice to Proceed. **UNIT PRICE PREVAILS OVER TOTAL PRICE.** All entries on this form must be typed or written in block form in ink. Quantities provided are for information purposes.

<u>No</u>	<u>Description</u>	<u>Qty.</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Total</u>
1	Tear off and properly dispose of existing roofing, insulation, flashings, perimeter metal. Install vapor barrier as specified, install tapered roof insulation as specified. Install top layer of new roof insulation as specified. Install first ply sheet as specified. Install cap sheet as specified. Install new flashings as specified. Install new coping cap, surface mount counter flashing, lead stack flashing, and other metal components as specified. Remove, reinstall and / or replace existing lightning protection equipment in compliance with code requirements. Provide manufacturer's warranty as specified.	1	LS	\$ 73,965.00	\$ 73,965.00
2	Replace existing four (4) roof drains with new roof drains.	1	LS	\$ 862.00	\$ 3,448.00
3	Replace approx. 14 linear feet of roof drain cast iron pipe and fittings with new drain pipe and new cast iron fittings. This drain pipe is located in the electrical room below the south drain on the lower roof.	1	LS	\$ 50.00	\$ 700.00
4	Replace damaged light weight concrete on low bay roof.	200	SF	\$ 4.00	\$ 800.00
5	Owner's Contingency for work as directed by the Engineer and upon authorization by the Owner due to undefined conditions.	1	AL	\$6,000.00	\$6,000.00
6	Permit fees and Testing Allowance	1	AL	\$6,000.00	\$6,000.00
7	Consideration for Indemnification in accordance with the Supplementary General	1	LS	\$10.00	\$10.00
BASE BID TOTAL FOR COMPLETE PROJECT					\$ 90,923.00

TOTAL BASE BID IN WRITING Ninety Thousand Nine Hundred and Twenty Three Dollars

COMPANY NAME: Infinity Roofing & Sheet Metal Inc

SECTION 00410

APPROVED BID BOND

(Construction)

STATE OF FLORIDA

KNOW ALL MEN BY THESE PRESENTS:

That we INFINITY ROOFING AND SHEET METAL INC, as Principal, and WESTCHESTER FIRE INSURANCE COMPANY, as

Surety, are held and firmly bound unto the City of Hollywood in the sum of _____

TEN PERCENT OF THE BID AMOUNT Dollars (\$ 10% OF BID AMOUNT) lawful money

of the United States, amounting to 10% of the total Bid Price, for the payment of said sum, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal has submitted the accompanying bid, dated JANUARY 29, 20 15 for

SRWWTP Sludge Roof Replacement**City Project No.: 14-9115**

NOW, THEREFORE, if the principal shall not withdraw said bid within 90 days after date of the same and shall within ten days after the prescribed forms are presented to him for signature, enter into a written contract with the CITY, in accordance with the bid as accepted, and give bond with good and sufficient surety or sureties, and provide the necessary Insurance Certificates as may be required for the faithful performance and proper fulfillment of such Contract, then this obligation shall be null and void.

Approved Bid Bond

In the event of the withdrawal of said bid within the specified period, or the failure to enter into such contract and give such bond and insurance within the specified time, the principal and the surety shall pay to the City of Hollywood the difference between the amount specified in said bid and such larger amount for which the City of Hollywood may in good faith contract with another party to perform the work and/or supply the materials covered by said bid.

IN WITNESS WHEREOF, the above bound parties have executed this statement under their several seals this 26TH
day of JANUARY, 2015, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

WHEN THE PRINCIPAL IS AN INDIVIDUAL:

Signed, sealed and delivered in the presence of:

Witness

Signature of Individual

Address

Printed Name of Individual

Witness

Address

Approved Bid Bond

WHEN THE PRINCIPAL IS A CORPORATION:

Attest:

Hector J. Mendez
Secretary

INFINITY ROOFING AND SHEET METAL INC
Name of Corporation

1150 S W 10TH AVE, SUITE #201W
Business Address
POMPANO BEACH, FL 33069-1326

[Signature]
By: (Affix Corporate Seal)

JOHN B. MITALA
Printed Name

PRESIDENT
Official Title

CERTIFICATE AS TO CORPORATE PRINCIPAL


I, Hector Javier Mendez, certify that I am the secretary of the Corporation named as Principal in the attached bond; that John B. Mitala who signed the said bond on behalf of the Principal, was then President of said Corporation; that I know his signature, and his signature thereto is genuine and that said bond was duly signed, sealed and attested for and on behalf of said Corporation by authority of its governing body.

Hector J. Mendez (SEAL)
Secretary

Approved Bid Bond

TO BE EXECUTED BY CORPORATE SURETY:

Attest:


Secretary

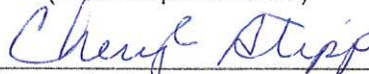
WESTCHESTER FIRE INSURANCE COMPANY
Corporate Surety

Business Address

436 Walnut St, Philadelphia, PA 19106

BY:

(Affix Corporate Seal)



Attorney-in-Fact Cheryl Stipp

Frank H. Furman, Inc.

Name of Local Agency

1314 E Atlantic Blvd.

Business Address

Pompano Beach, FL 33060


STATE OF FLORIDA

Before me, a Notary Public, duly commissioned, qualified and acting, personally appeared, Cheryl Stipp to me well known, who being by me first duly sworn upon oath says that he is the attorney-in-fact for the Westchester Fire Insurance Company and that the has been authorized by Westchester Fire Insurance Company to execute the forgoing bond on behalf of the CONTRACTOR named therein in favor of the City of Hollywood, Florida.

Subscribed and sworn to before me this 26 day of January 2015



My Commission Expires:


Notary Public, State of Florida

- END OF SECTION -

Power of Attorney

WESTCHESTER FIRE INSURANCE COMPANY

Know all men by these presents: That WESTCHESTER FIRE INSURANCE COMPANY, a corporation of the Commonwealth of Pennsylvania pursuant to the following Resolution, adopted by the Board of Directors of the said Company on December 11, 2006, to wit:

"RESOLVED, that the following authorizations relate to the execution, for and on behalf of the Company, of bonds, undertakings, recognizances, contracts and other written commitments of the Company entered into the ordinary course of business (each a "Written Commitment"):

- (1) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise.
- (2) Each duly appointed attorney-in-fact of the Company is hereby authorized to execute any Written Commitment for and on behalf of the Company, under the seal of the Company or otherwise, to the extent that such action is authorized by the grant of powers provided for in such persons written appointment as such attorney-in-fact.
- (3) Each of the Chairman, the President and the Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to appoint in writing any person the attorney-in-fact of the Company with full power and authority to execute, for and on behalf of the Company, under the seal of the Company or otherwise, such Written Commitments of the Company as may be specified in such written appointment, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (4) Each of the Chairman, the President and Vice Presidents of the Company is hereby authorized, for and on behalf of the Company, to delegate in writing any other officer of the Company the authority to execute, for and on behalf of the Company, under the Company's seal or otherwise, such Written Commitments of the Company as are specified in such written delegation, which specification may be by general type or class of Written Commitments or by specification of one or more particular Written Commitments.
- (5) The signature of any officer or other person executing any Written Commitment or appointment or delegation pursuant to this Resolution, and the seal of the Company, may be affixed by facsimile on such Written Commitment or written appointment or delegation.

FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority otherwise validly granted or vested.

Does hereby nominate, constitute and appoint Cheryl Stipp, Dirk D DeJong, Dora Villavicencio, all of the City of POMPANO BEACH, Florida, each individually if there be more than one named, its true and lawful attorney-in-fact, to make, execute, seal and deliver on its behalf, and as its act and deed any and all bonds, undertakings, recognizances, contracts and other writings in the nature thereof in penalties not exceeding Ten million dollars & zero cents (\$10,000,000.00) and the execution of such writings in pursuance of these presents shall be as binding upon said Company, as fully and amply as if they had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office,

IN WITNESS WHEREOF, the said Stephen M. Haney, Vice-President, has hereunto subscribed his name and affixed the Corporate seal of the said WESTCHESTER FIRE INSURANCE COMPANY this 22 day of July 2014.

WESTCHESTER FIRE INSURANCE COMPANY



Stephen M. Haney

Stephen M. Haney, Vice President

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF PHILADELPHIA ss.

On this 22 day of July, AD. 2014 before me, a Notary Public of the Commonwealth of Pennsylvania in and for the County of Philadelphia came Stephen M. Haney, Vice-President of the WESTCHESTER FIRE INSURANCE COMPANY to me personally known to be the individual and officer who executed the preceding instrument, and he acknowledged that he executed the same, and that the seal affixed to the preceding instrument is the corporate seal of said Company; that the said corporate seal and his signature were duly affixed by the authority and direction of the said corporation, and that Resolution, adopted by the Board of Directors of said Company, referred to in the preceding instrument, is now in force.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal at the City of Philadelphia the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
KAREN E. BRANDT, Notary Public
City of Philadelphia, Phila. County
My Commission Expires September 26, 2014

Karen E. Brandt
Notary Public

I, the undersigned Assistant Secretary of the WESTCHESTER FIRE INSURANCE COMPANY, do hereby certify that the original POWER OF ATTORNEY, of which the foregoing is a substantially true and correct copy, is in full force and effect.

In witness whereof, I have hereunto subscribed my name as Assistant Secretary, and affixed the corporate seal of the Corporation, this 26 day of January 2015



William L. Kelly
William L. Kelly, Assistant Secretary

THIS POWER OF ATTORNEY MAY NOT BE USED TO EXECUTE ANY BOND WITH AN INCEPTION DATE AFTER July 22, 2016.



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99

www.miamidade.gov/economy

GAF

**1361 Alps Road
Wayne, NJ 07470**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Ruberoid® Modified Bitumen Roof Systems for Lightweight Concrete Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA 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 NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 13-0409.07 and consists of pages 1 through 32.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 14-0905.02
Expiration Date: 11/06/15
Approval Date: 11/06/14
Page 1 of 32

Membrane Type: SBS Heat-Weld™

Deck Type 4: Lightweight Concrete, Non-insulated (See Systems Limitations)

Deck Description: Minimum 300 psi Celcore Cellular Lightweight Concrete with minimum 1" EPS Holey Board. Minimum 2" slurry coat poured over the EPS, When LWC is set up to support foot traffic apply Celcore PVA Curing Compound to the top surface at a rate of 300 ft²/gal.

System Type E(5): Base sheet mechanically attached.

Deck: Structural concrete deck or Minimum 22 ga. Grade 33 steel deck secured 6" o.c. to structural supports spaced a maximum of 5 ft. o.c. with 5/8" puddle welds and at each support at side laps.

All General and System Limitations shall apply.

Base Sheet: Install one ply of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® #80 Ultima™ Base Sheet, GAFGLAS® Stratavent® Eliminator™, Nailable Venting Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5 or Ruberoid® Mop Smooth Plus mechanically fastened as described below.

Fasteners: Drill-Tec™ Base Sheet Fasteners or Drill-Tec™ Base Sheet Fastener E at a fastener spacing of 9" o.c. at the 2" wide side laps and 9" o.c. in two equally spaced rows in the field of the base sheet.

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

Drill-Tec™ Base Sheet Fasteners or Drill-Tec™ Base Sheet Fastener E at a fastener spacing of 7" o.c. at the 3" wide side laps and 7" o.c. in two equally spaced rows in the field of the base sheet.

(Maximum Design Pressure -75 psf. See General Limitation #7)

Ply Sheet: Ruberoid® SBS Heat-Weld™ 25 or Ruberoid® SBS Heat-Weld™ Smooth
(Optional) torched applied according to manufacturer's application instructions.

Membrane: One or more plies Ruberoid® SBS Heat-Weld™ 25, Ruberoid® SBS Heat-Weld™ Smooth, Ruberoid® SBS Heat-Weld™ Granule, Ruberoid® SBS Heat-Weld™ 170 FR, Ruberoid® SBS Heat-Weld™ Plus, Ruberoid® SBS Heat-Weld™ Plus FR or Ruberoid® EnergyCap™ SBS Heat-Weld™ Plus FR applied according to manufacturer's application instructions.

Surfacing: **Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.**

1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq.
2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq.
3. Topcoat® Elastomeric Roofing Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Elastomeric Roofing Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.

Maximum Design Pressure: See Fastening Options Above

LIGHTWEIGHT CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant.
2. For steel deck application where specific deck construction is not referenced: The deck shall be a minimum 22 gauge attached with 5/8" puddle welds with weld washers at every flute with maximum deck spans of 5 ft. o.c.
3. For systems where specific lightweight insulating concrete is not referenced, the minimum design mix shall be a minimum of 300 psi.

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 side lap 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 lb. f., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lb. f. 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 and/or RAS 137. 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 to 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.)**
 10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 14-0905.02
Expiration Date: 11/06/15
Approval Date: 11/06/14
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

GAF

**1361 Alps Road
Wayne, NJ 07470**

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99

www.miamidade.gov/economy

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Ruberoid® Modified Bitumen Roof Systems for Concrete Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA 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 NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews and revises NOA No. 13-0409.03 and consists of pages 1 through 43.
The submitted documentation was reviewed by Jorge L. Acebo.



NOA No.: 14-0905.01
Expiration Date: 11/06/15
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APPROVED ASSEMBLIES:

Membrane Type: APP & SBS

Deck Type 3I: Primed Concrete Decks, Insulated

Deck Description: 2500 psi structural concrete or concrete plank

System Type A(1): Insulation adhered with approved adhesive and membranes adhered to insulation.

Vapor Retarder: (Optional) One or more plies of GAFGLAS® Ply 4, Tri-Ply® Ply 4, GAFGLAS® FlexPly™ 6, GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet, GAFGLAS® Ultima™ #80 Base Sheet or Ruberoid® 20 adhered with hot asphalt applied at 20-25 lbs./sq. to deck primed with ASTM D-41 Asphalt Primer or Matrix™ 307 Premium Asphalt Primer.

All General and System Limitations shall apply.

One or more layers of any of the following insulations.

Base Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

EnergyGuard™ Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation

Minimum. 1½" thick

N/A

N/A

Note: Base layer shall be adhered with OlyBond® at 1 gal./sq. full coverage, OlyBond 500® or OlyBond 500® Green in ¾" to 1" wide ribbons spaced 12" o.c. 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 Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer

Insulation Fasteners
(Table 3)

Fastener
Density/ft²

DensDeck® Prime Roof Board, Securock Gypsum-Fiber Roof Board

Minimum. ¼" thick

N/A

N/A

Note: Apply top layer of insulation with OlyBond® at 1 gal./sq. full coverage, OlyBond 500® or OlyBond 500® Green in ¾" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulation listed as Base Layer only shall be used only as base layers with a second layer of approved Top Insulation Layer installed as the final membrane substrate.

Anchor Sheet:
(Optional)

Two plies of GAFGLAS® #75 Base Sheet, Tri-Ply® #75 Base Sheet or a single ply of GAFGLAS® Ultima™ #80 Base Sheet, Ruberoid® 20, Ruberoid® Mop Smooth, Ruberoid® Mop Smooth 1.5, Ruberoid® Mop Plus Smooth, Ruberoid® Heat-Weld™ 25, Ruberoid® Heat-Weld™ Smooth applied in hot asphalt full mop at 25 lbs./sq.

Base Sheet:

One or more plies of Ruberoid® SBS Heat-Weld™ 25 or Ruberoid® SBS Heat-Weld™ Smooth torch applied.

Or

One ply of Weather Watch® XT self-adhered to the insulation applied according to manufacturer's applications instructions when used with a torch adhered cap sheet. **Note: Weather Watch® XT is not to be used if optional anchor sheet is present.**

Ply Sheet: (Optional)	One or more plies of Ruberoid® SBS Heat-Weld™ 25 or Ruberoid® SBS Heat-Weld™ Smooth torch applied.
<u>Membrane:</u>	<p>One or more plies Ruberoid® SBS Heat-Weld™ 25, Ruberoid® SBS Heat-Weld™ Smooth, Ruberoid® SBS Heat-Weld™ Granule, Ruberoid® SBS Heat-Weld™ 170 FR, Ruberoid® SBS Heat-Weld™ Plus, <u>Ruberoid® SBS Heat-Weld™ Plus FR or Ruberoid® EnergyCap™ SBS Heat- Weld™ Plus FR</u>, applied in accordance with manufacturer's instructions.</p> <p>Or</p> <p>One or more plies of Ruberoid® Torch Smooth, Tri-Ply® TP-4, Ruberoid® Torch Granule, Ruberoid® Torch 180, Tri-Ply® TP-4G, Ruberoid® Torch FR, Ruberoid® EnergyCap™ Torch Granule FR or Ruberoid® EnergyCap™ Torch Plus FR applied in accordance with manufacturer's instructions.</p>
Surfacing:	<p>Optional on granular surfaced membranes; required for smooth membranes. Chosen components must be applied according to manufacturer's application instructions. All coatings must be listed within a current NOA.</p> <ol style="list-style-type: none"> 1. Gravel or slag applied at 400 lbs./sq. and 300 lbs./sq. respectively in a flood coat of approved asphalt at 60 lbs./sq. 2. GAFGLAS® Mineral Surfaced Cap Sheet, Tri-Ply® Mineral Surfaced Cap Sheet or GAFGLAS® EnergyCap™ BUR Mineral Surfaced Cap Sheet adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq. 3. Topcoat® Elastomeric Roofing Membrane, Topcoat® MB Plus (to be used as a primer with Topcoat® Elastomeric Roofing Membrane) or Topcoat® Surface Seal SB applied at 1 to 1.5 gal./sq.
Maximum Design Pressure:	-300 psf. (See General Limitation #9)



CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117; calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.

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 side lap 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 and/or RAS 137. 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 to 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.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE



NOA No.: 14-0905.01
Expiration Date: 11/06/15
Approval Date: 10/30/14
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OlyBond500™

ADHESIVE FASTENER

DESCRIPTION

OlyBond500 is a dual-component polyurethane adhesive used to adhere a variety of board stocks to most roof substrates in both new and re-roof applications. It can also be used to adhere insulation board to insulation board. OlyBond500 is dispensed in a semi-liquid bead that spreads to several inches while rising 3/4 to 1 inch above the substrate. Place the board stock into the adhesive and walk into place. A chemical cure takes place securing the board in approximately 4 to 8 minutes after application, depending on temperature and weather conditions.

PHYSICAL PROPERTY	TEST METHOD	TYPICAL VALUES
Density	ASTM D-1622	3.2 lb./cf
Compressive Strength	ASTM D-1621	38 psi @ 6% deflection
Tensile Strength	ASTM D-1623	35 psi
Water Absorption	ASTM D-2842	5.1%
Closed Cell Content	ASTM D-6226	90% min.
R-Value	ASTM D-518	3.8 /inch (new)
VOC Content	ASTM D-2369	<5 g/L
Weight/Gallon	Part 1 & 2 Component	10.32 lbs. & 8.54 lbs.

Packaging:

Package Sizes:

- 10 gallon Bag-in-Box sets for use with the PaceCart 2® (5 gal. Part 1; 5 gal. Part 2).
- 1500 ml SpotShot cartridge sets for use in specially designed applicators.

Formulas* (Part 2 component, 5 gallon Bag-in-Box):

- Winter (40°F – 60°F)
- Regular (60°F – 90°F)
- Summer (90°F +)

* Part 1 component, 5 gallon Bag-in-Box is required for all applications and is not temperature dependent.

Formulas (1500 ml SpotShot cartridges):

- Regular (40°F +)
- Winter (0°F – 40°F)

Job Conditions:

- Insure that you have the correct OlyBond500™ formulation (i.e. Regular or Winter) for the surface and ambient temperature.
- On retrofit-recover projects, investigate the existing roofing material to insure adequate attachment of existing system. Identify and remove all wet material prior to the application of the OlyBond500™ adhesive.

- Remove any existing Phenolic Insulation.
- Coordination between trades is essential to avoid unnecessary rooftop traffic.

Storage & Handling:

- Store in a cool, dry location at temperatures between 55°F and 85°F. Protect from freezing at all times. If properly stored, the shelf life for unopened product is 18 months from the date of manufacture.
- Keep containers closed. Contamination by moisture or basic compounds, such as grout can cause dangerous pressure build-up in a closed container.
- The minimum product temperature before application should be 72°F. The minimum ambient and surface temperatures should be 40°F and rising unless the SpotShot winter formulation is being used.

Approvals:

OlyBond500™ is approved by most roof system manufacturers and is Factory Mutual, Florida Building Code and Miami Dade approved.

First Aid:

In case of contact with eyes, immediately flush eyes with running water for at least 15 minutes. Call a physician immediately. In case of contact with skin, wash affected area with soap and water. Remove all contaminated clothing and shoes and clean before re-use. If swallowed, give large amounts of water to dilute. If vomiting occurs, give more water. Call a physician immediately.

Disposal:

PMDI in Part 1 component may cause pollution. Do not discharge into lakes, streams, ponds or public waters. Spilled material, unused contents and empty containers must be neutralized and disposed of in accordance with local, state and federal regulations.

Limited Warranty:

When OlyBond500™ adhesive is installed in accordance with these specifications, Olympic Manufacturing Group issues a 10-year limited material warranty on the adhesive. The OlyBond500™ adhesive may also be included in various system warranties issued by the Roofing System Manufacturer; contact the Roofing System Manufacturer directly for more information. To obtain

a Roofing System Warranty, the installer must contact the Roofing System Manufacturer prior to the start of the project to review and determine the adhesion requirements of the substrate and to ascertain the Manufacturer's procedures and requirements for obtaining a system warranty.

Composition & Materials:

OlyBond500™ is a dual-component, reaction cure polyurethane adhesive. The blowing agent is water. OlyBond500™ does not contain HCFC and has low VOCs. OlyBond500™ is available in 10 gallon sets of Part 1 (diisocyanate, 5 gallons), and Part 2 (resin, 5 gallons) OlyBond500™ is also available in 1500 ml OlyBond500™ SpotShot cartridge sets (4 cartridges/case).

Compatibility

Roof Decks and Substrates:

- Structural concrete
- Gypsum
- Cementitious wood fiber plank
- Lightweight insulating concrete
- Steel (22 gauge or thicker with approved cross section)
- Plywood (5/8-inch thick min.)
- Smooth surface BUR
- Smooth and granular surface modified bitumen
- Existing sprayed in place polyurethane foam
- Base sheets
- Most vapor barriers (including asphaltic and fleece-top)

Roof Insulation and Cover Board:

- Expanded Polystyrene
- Polyisocyanurate
- High Density Wood Fiber
- DensDeck®
- Perlite
- Securock®
- Certain Extruded Polystyrene

Any substrate or insulation not listed must be reviewed by OMG. Call 800.633.3800.

Limitations: Do NOT use OlyBond500™ adhesive...

- With isocyanurate board stock larger than 4 feet x 4 feet
- When ambient or substrate temperatures are below 40°F unless using SpoyShot formulation.
- SpotShot winter formulation is specifically designed to be applied between 0°F and 40°F.
- During wet weather
- On wet surfaces
- On dirty or grease-laden surfaces
- On any roof deck that shows signs of deterioration or loss of structural integrity
- OlyBond500™ is not recommended for use after the expiration date.

Roof Deck Criteria:

- The building owner or general contractor shall provide a proper substrate. The structure shall be sufficient to withstand normal construction load and live loads.
- Defects in the deck must be documented and reported to the specifier, general contractor, roof cover manufacturer and OMG, Inc. Do not apply OlyBond500™ unless the defects are corrected.
- The roofing contractor must ensure that the existing roof is adequately attached to the building and meets all the requirements for an acceptable surface.
- Acceptable decks are structural concrete, gypsum, cementitious wood fiber plank, lightweight insulating concrete, minimum 22-gauge steel, minimum 5/8-inch plywood.

Surface Preparation:

General: All surfaces must be dry and free of any debris, dirt, oil or grease before applying OlyBond500™.

Specific Conditions:

- **Steel:** The bonding surface of steel decks must be dry and free of debris, dirt, grease and oil. On new steel, the shop coating/mill oil must be removed. The bonding surface must be free of any cleaner before applying OlyBond500™.
- **Existing Smooth Asphaltic Surfaces:** The surface must be dry and free of debris, dirt, grease and oil.
- **Existing Polyurethane Foam:** The surface of the polyurethane roof, including the coating, should be removed with a scarifier (minimum 1/2 inch). The bonding surface should be blown clean before applying OlyBond500™.
- **Metal:** OlyBond500™ has excellent adhesion to clean metal. Prime all non-ferrous metals (aluminum, copper, stainless, etc.) to further increase adhesion. Accepted primers include epoxy, chlorinated rubber, and wash primer.
- **Other:** For other substrates not listed, contact GAF at 1-800-ROOF-411.

Insulation:

Review the roofing insulation plan. Polyisocyanurate insulation boards cannot be larger than 4 feet x 4 feet. Multiple layers of boards should use the staggered joint method of application. Compatible insulation other than polyisocyanurate can be 4 feet x 8 feet maximum size.

Product Installation:

Using PaceCart 2®

- Install Part 1 and Part 2 components following instruction on Bag-in-Box package.
- Open flow valves on the dispenser completely and turn machine on. This allows adhesive to be pumped at a 1:1 ratio through the disposable mix tip and onto the substrate in a semi-liquid state.
- Apply fluid mixture in 3/4 to 1 inch wide wet beads spaced maximum of 12 inches on center that spreads in excess of 2 inches wide while rising 3/4 to 1 inch.
- Lay insulation board into place and walk-in to assure complete adhesion. Curing typically occurs in 4 to 8 minutes depending on temperature and weather conditions.
- Check with roof system manufacturer for project specific spacing requirements.

Using SpotShot Applicator

- Attach the disposable mix tip to the top of the OlyBond500™ SpotShot tube. Insert the tube into SpotShot dispensing tool and dispense onto the substrate.
- Apply fluid mixture in rows spaced maximum of 12 inches on center that spread to several inches wide while rising 3/4 to 1 inch.
- Lay insulation board into place and walk-in to assure complete adhesion. Curing typically occurs in 4 to 8 minutes depending on temperature and weather conditions.
- Check with roof system manufacturer for project specific spacing requirements.

Typical Application Rates:

Application rates vary depending on surface roughness and absorption rate of the substrate. Typical coverage rates for OlyBond500™ dispensed through the PaceCart 2® are 10 – 20 squares per 10 gallon Bag-in-Box sets. Typical coverage rates for OlyBond500™ SpotShot dispensed through applicators is 4 – 6 squares per case (4 sets of 1500 ml cartridges). All coverage rates are based on 12 inch on center maximum spacing. See chart below for typical application rates on specific substrates.

APPLICATION RATES (Bag-in-Box dispensed from PaceCart 2®)	TYPICAL COVERAGE Squares/Gallon
Insulation to Concrete	1.7 to 2
Insulation to Insulation	1.7 to 2
Insulation to Smooth BUR	1.5 to 1.7
Insulation to Modified Bitumen	1.5 to 1.7
Insulation to Gypsum	1 to 1.2
Insulation to Lightweight Concrete*	1 to 1.7
Insulation to Wood	1.7 to 2
Insulation to Cementitious Wood Fiber	1 to 1.2
Insulation to Steel	1 to 1.2

*Coverage rate may vary substantially based on the absorption rate and/or the surface conditions of the LWC.

Typical Reaction Time Characteristics: 5 Gallon Bag-in-Box Packaging

TEMPERATURE	PART 2 FORMULA	TACK FREE TIME (minutes)	SET UP TIME (minutes)
40°F-60°F	W	3-5	10-12
60°F-90°F	R	3-5	10-12
90°F +	S	3-5	10-12

1500 ml SpotShot Cartridges

TEMPERATURE	PART 2 FORMULA	TACK FREE TIME (minutes)	SET UP TIME (minutes)
0°F-40°F	W	3-5	10-12
40°F+	R	3-5	10-12

Important: When applying OlyBond500, board stock must be placed into the adhesive shortly after it has reached its maximum rise while it is still wet and tacky and before it reaches its tack free state.

Availability & Cost:

OlyBond500™ is available throughout the USA. Contact your GAF Sales Representative.

Precautions:

- **In Case of Fire:** Use water spray, foam or CO2. Firefighters should be equipped with self-contained breathing apparatus and turnout gear for protection against PMDI vapors and toxic decomposition products. Avoid water contamination in closed container or confined areas.
- **Do Not Leave Adhesive Exposed or Unprotected:** Polyurethane foam or isocyanurate foam products may present a serious fire hazard if exposed or unprotected. Each person, firm or corporation engaged in the manufacture, production, application, installation or use of any of these materials should carefully determine whether there is a potential fire hazard associated with such product in a specific usage and utilize all appropriate precautionary and safety measures as outline in local, state and federal regulations. Keep stored containers closed when not in use.



Florida
Building
Code



Manufactured By:

Olympic Manufacturing Group
153 Bowles Road
Agawam, MA 01001

Phone: 1-413-789-0252 or 1-800-633-3800

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Distributed By:

GAF Materials Corporation
1361 Alps Road
Wayne, NJ 07470
www.gaf.com



GAFLAS®

STRATAVENT® ELIMINATOR™

NAILABLE BASE SHEET



Description

GAFLAS® STRATAVENT® Eliminator™ Nailable Base Sheet is a premium-grade roofing felt constructed around a strong glass fiber mat and high quality asphalt. The bottom of the sheet is granule-surfaced to provide positive venting of any trapped gases under the roof membrane.

- GAFLAS® STRATAVENT® Eliminator™ Nailable Base Sheet is available for nailable and non-nailable substrates.
- GAFLAS® STRATAVENT® Eliminator™ Nailable Base Sheet is mechanically attached to wood, structural wood fiber, poured gypsum, and lightweight insulating concrete decks.

Uses

GAFLAS® STRATAVENT® Eliminator™ Nailable Base Sheet is a venting base sheet designed to be used in various GAFLAS® built-up and RUBEROID® modified bitumen roofing systems. It can be used over both nailable and non-nailable substrates, including certain existing old roof surfaces and isocyanurate foams.

Advantages

- Provides for venting of pressurized gases beneath the roofing membrane.
- Fire resistant—for use in UL Class A rated assemblies.
- In recover applications, provides an effective means for separating the new roofing membrane from the existing roof system.
- Wind uplift-resistant; FMRC Approved up to Class 1-345 (See FM Approval Guide for details).
- Meets requirements for application in all climate zones.
- System guarantees are available for up to 20 years.

Applicable Standards

Meets ASTM D4897, Type II and D3672, Type II
 FM Approved
 Meets CGSB-37-GP-56M
 ICC ESR#1274
 Miami-Dade County Product Control Approval
 State of Florida Product Approval
 Texas Department of Insurance
 UL/ULc Listed

Products Specifications (nominal)

Roll Size	1.26 squares (133.4 gross sq.ft.) (12.4m ²)
Roll Length	40.6' (9.9m)
Roll Width	39.375" (1.0m)
Approx. Roll Weight	73 lbs (33.1kg)



DRILL-TEC™

CR-BASE SHEET FASTENER WITH PLATE

Use
With:
**Light-
weight
Insulating
Concrete
Decks**

Description

The Drill-Tec™ CR-Base Sheet Fastener With Plate is a, precision formed from G-90 galvanized steel, coated with CR-10, assembled with a 2.75" Galvalume® plate. A Pogo Stick or wooden mallet should be used to install the fastener. This fastener is designed to secure base sheets to a minimum 2" thickness of poured lightweight insulating concrete or various gypsums.

The Drill-Tec™ CR-Base Sheet Fastener With Plate is Factory Mutual and Dade County approved.

Application

The Drill-Tec™ CR-Base Sheet Fastener will be embedded into a minimum of 2" of poured lightweight insulating concrete, smooth prior to roofing. For the best performance, the fastener should always be installed perpendicular to the substrate. Installation of fasteners too far apart or too close together can result in interaction of forces on the substrate and lead to a reduction of fastener performance.

Note: Prior to job start, contact the manufacturer to determine the correct nailing pattern. On reroofing applications, prior to job start, roof should be inspected or tested to determine the pullout values.

Code Approvals



Advantages

- The Drill-Tec™ CR-Base Sheet Fastener is FM and Dade County approved.
- CR-Base Sheet Fastener meets FM Class I-150 Wind Uplift requirements when installed in accordance with FM requirements.
- Assembled CR-Base Sheet Fastener greatly reduces installation time and labor cost.
- Assembled Base Sheet Fasteners are packaged for easy handling on roof.
- Fastener is CR-10 coated to prevent in-place corrosion.

Plates & Accessories

- CR-Base Sheet Fastener with plate is assembled with a Galvalume® 2.75" plate.
- Use a Pogo Stick to install the fastener.

Specifications

The fastener will be a Drill-Tec™ CR-Base Sheet Fastener with a head size of 1.125" and a leg length of 1.75". For FM applications, the fastener must be installed with a Factory Mutual approved, Drill-Tec™ Base Sheet Galvalume® plate. The complete fastener, head and legs, must be CR-10 coated. The fastener must be Factory Mutual approved and made in the U.S.A.

Coating Requirement

The fastener will be coated with the Drill-Tec™ CR-10 corrosion resistant coating. Fastener must meet Factory Mutual Approval Standard 4470. The plate must be Galvalume® and also meet Factory Mutual Approval Standard 4470.

FM Approved CR-Base Sheet Fastener Nailing Patterns

Due to frequent changes in Factory Mutual requirements for the securement of base sheets to various lightweight concrete decks, please contact the roof cover manufacturer or Drill-Tec Fasteners for up-to-date information on approved fastening patterns.

Product Data

Base Sheet Fastener:

Head Size	1.125" x 1"
Leg Length	1.75"
Material	G-90 galvanized with CR-10 coating
Material Thickness	.014 nominal

Plate:

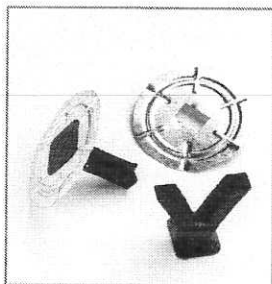
Diameter	2.75"
Material	Galvalume®
Material Thickness	.014 nominal
Packaging Assembled	500 per carton

Shipping Weight	21 lbs.
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Catalog Number:

CR-Base Sheet Fastener With Plate	459C
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Drill-Tec™
CR-Base Sheet
Fastener
With Plate



Distributed by:



DENS-DECK® PRIME™ ROOF BOARD (1 of 2)

Manufactured by:



133 Peachtree Street, N.E.
Atlanta, GA 30303
Technical: 1-800-225-6119

Description

Dens-Deck® Prime™ Roof Board combines an exceptional fire barrier, thermal barrier and recovery board used in various commercial roofing systems with a pre-primed surface to make the bond even stronger. The patented Dens-Deck® design employs glass mat facings front and back that are embedded into a water resistant and moisture resistant treated gypsum core, providing excellent fire resistance, moisture resistance and wind uplift properties. The unique construction of Dens-Deck® Prime™ provides superior flute spanning and will help stiffen and stabilize the roof deck. Additionally, Dens-Deck® Prime™ has been shown to withstand delamination, deterioration, warping and job-site damage more effectively than roofing membrane substrates such as paper-faced gypsum board, fiberboard and perlite insulation.

Primary Uses

Roof system manufacturers and designers have found Dens-Deck® Prime™ roof board to be compatible with many types of roofing systems, including: modified asphalt, single ply, metal systems, recover board, as well as an overlayment for polyisocyanurate and polystyrene insulation. Dens-Deck® Prime™ can also be used as a form board for poured gypsum concrete deck in roof applications as well as a substrate for spray foam roofing systems. 1/2" and 5/8" Dens-Deck® Prime™ may also be used in vertical applications as a backer board or liner for the roof side of parapet walls.

Dens-Deck® Prime™ allows the bonding of cold mastic modified bitumen and torching directly to the surface. **Refer to specific membrane system application instructions.** System manufacturers and designers have found Dens-Deck® Prime™ to be compatible with bonding adhesives for fully-adhered single-ply membrane applications and has been shown to extend the adhesive usage.

Dens-Deck® Prime's exceptional moisture resistance and low R-value make it the preferred substrate for vapor retarders. An excellent fire barrier, Dens-Deck® Prime™ features a noncombustible core and inorganic surface that offers greater fire protection than other conventional commercial roofing products when applied over combustible roof decks and steel decks. Dens-Deck® Prime™ is FM tested and approved as the only 1/2' gypsum product to meet the calorimeter requirements for conventionally insulated decks. Tested in accordance with ASTM E84, its surface burning characteristics are Flame Spread-0 and Smoke Developed-0. 5/8" Dens-Deck® Prime™ can replace any generic type X gypsum board in any roof assembly in the UL Fire Resistance Directory under the prefix "P".

Limitations

Dens-Deck® Prime™ is designed to act with a properly designed roof system. The actual use of Dens-Deck® Prime™ roof board as a roofing component is the responsibility of the roofing system's designing authority.

Conditions beyond the control of G-P Gypsum such as weather conditions, dew, application temperatures and techniques may cause adverse effects with adhered roofing systems. Always consult the roofing system specific manufacturer's instructions for applying the various roofing types to Dens-Deck® Prime™ roof board.

Panels must be kept dry before, during and after installation. Apply only as much Dens-Deck® Prime™ as can be covered by a roof membrane system in the same day.

Accumulation of water due to leaks or condensation in or on Dens-Deck® Prime™ roof board must be avoided during construction and after construction. Avoid over-use of non-vented direct-fired heaters during winter months. Avoid application of Dens-Deck® Prime™ during rains, heavy fogs and other conditions that may deposit moisture on the surface.

When applying solvent-based adhesives or primers, allow sufficient time for the solvent to flash off to avoid damage to roofing components.

Maximum flute span is 2-5/8" for 1/4" Dens-Deck® Prime™; 5" for 1/2" Dens-Deck® Prime™; and 8" for 5/8" Dens-Deck® Prime™ Fireguard® Type X.

Refer to the installation instructions for the specific roof system to be installed for additional requirements.

Technical Data

Flame spread 0, smoke developed 0, when tested in accordance with ASTM E84 or CAN/ULC-S102. Noncombustible when tested in accordance with ASTM E136.

Dens-Deck® Prime™ Fireguard: UL Classified when tested in accordance with ASTM E119.

1/4" Dens-Deck® Prime™ has been G-P sponsored tested with Factory Mutual for 60 psf and 90 psf wind uplift for BUR, EPDM, thermoplastics and modified bitumen roof systems. Higher wind uplift ratings have been achieved by numerous membrane manufacturers using Dens-Deck® Prime™ in their FMRC-approved construction designs.

Products Specifications (nominal)

Thickness	1/4" – 6.4mm; 1/2" – 12.7mm; 5/8" – 15.9mm Fireguard® type X
Widths	4' – 1220mm standard, 1/8" – 3mm tolerance 8' – 2440mm standard, tolerance 1/4 – 6.4mm; Optional: 4' – 1220mm available
Lengths	
Edges	Square
Spanning	1/4" Dens-Deck Prime spans flute widths up to 2 5/8" 1/2" Dens-Deck Prime spans flute widths up to 5" 5/8" Dens-Deck Prime spans flutes up to 8" wide

Distributed by:



DENS-DECK® PRIME™ ROOF BOARD (2 of 2)

Manufactured by:



133 Peachtree Street, N.E.
Atlanta, GA 30303
Technical: 1-800-225-6119

Installation

1. Dens-Deck® Prime™ should be used with fasteners specified in accordance with FM requirements and roof membrane manufacturer's written recommendations.
2. For wind uplift/FMRC compliance where Dens-Deck® Prime™ is mechanically attached to metal decks, Dens-Deck® Prime™ shall be installed to the specifics of the FMRC design assembly.
3. For installations involving BUR, EPDM, thermoplastics and modified bitumen roof systems, call Technical Hotline at 1-800-ROOF-411 for fastener patterns of G-P's FMRC uplift assemblies.
4. In accordance with approved shop drawings, FM-approved fasteners shall be installed with plates through the Dens-Deck® Prime™, flush with the surface.
5. Where Dens-Deck® Prime™ is installed over combustible wood decks or insulation, all joints should be staggered. The optional separator sheet should be installed prior to Dens-Deck® Prime™ installation.
6. Edge joints should be located on, and parallel to, deck ribs. End joints of adjacent lengths of Dens-Deck Prime should be staggered.
7. For FM Class I-60, fastener density typically is increased by 50% at the roof corners, in conjunction with FM-approved covering.
8. For FM Class I-90, fastener density typically is increased by 50% at the roof corners and roof perimeter, in conjunction with FM-approved covering.
9. Adhered Systems: Insta-Foam Products, Inc.'s Insta-Stik Adhesive used with 1/4" Dens-Deck® Prime™ achieved a FMRC Class I-180 according to test report 1Y7A5.AM in selected Class 1 insulated steel and concrete deck roof construction. Contact Insta-Foam Products, Inc. for details at 1-800-800-FOAM.
10. Dens-Deck® Prime™ shall be installed with ends and edges butted tightly.
11. Dens-Deck® Prime™ is manufactured to conform to ASTM C 1177.

PHYSICAL PROPERTIES			
PROPERTIES	1/4" DENS-DECK® PRIME	1/2" DENS-DECK® PRIME	5/8" DENS-DECK® FIREGUARD®
Thickness, nominal inches	5/16"	1/2"	5/8"
Width, standard	4'	4'	4'
Length, standard	8' ± 1/4"	8' ± 1/4"	8' ± 1/4"
Weight, lbs./M sq. ft., nominal	1100	1950	2500
Surfacing	Glass mat/primed	Glass mat/primed	Glass mat/primed
Flexural Strength, Parallel, lbs. min. ⁴	40	80 ⁵	100 ⁵
Flexural Strength, Perpendicular, lbs. min. ⁴	50	100 ⁵	140 ⁵
Flute Spanability ¹	2-5/8"	5"	8"
Permeance Perms ²	50	35	32
R Value ³	.28	.56	.67
Coefficient of Thermal Expansion, Inches/inch/°F	8.5 x 10 ⁻⁶	8.5 x 10 ⁻⁶	8.5 x 10 ⁻⁶
Linear Variation with Change in Moisture in/in/%RH	6.25 x 10 ⁻⁶	6.25 x 10 ⁻⁶	6.25 x 10 ⁻⁶
Absorption, % max ⁴	10.0	10.0	10.0
Compression, psi	500	500	500
Surface Water Absorption, grams ⁴	2.5	2.5	2.5
Flame Spread Smoke Developed (ASTM E84)	0	0	0
Fire Classification	UL Class A, ULC S-102 UL 1256, ULC S-126	FMRC Class 1 UL 1256, ULC S-126 UL Class A, ULC 102	FMRC Class 1 UL Classified "P" assemblies ULC S-101
FM Uplift Approvals	60 and 90 psf uplift	FMRC 1-60, 1-90	FMRC 1-60, 1-90

¹Tested in accordance with ASTM E661 (400 lb. conc. load).
²Tested in accordance with ASTM C355 (dry cup method).
³Tested in accordance with ASTM C518 (heat flow meter).
⁴Tested in accordance with ASTM C473.
⁵ASTM C1177 minimums.

Product Data Sheet

EnergyGuard™

Tapered PolyIso Insulation

Description

EnergyGuard™ Tapered PolyIso Foam Roof Insulation has a thermally efficient polyisocyanurate core bonded between organic/glass facers. It is readily available in the two most popular and efficient tapers, 1/8 inch per foot (1%) and 1/4 inch per foot (2%).

Advantages

- Properly designed and installed EnergyGuard™ Tapered PolyIso Foam Insulation Systems virtually eliminates ponding water.
- High thermal efficiency.
- Easily installed with mechanical fasteners, hot asphalt or loose laid in a ballasted system.
- Low point and letter codes are designated on each board.
- Engineering design board lay-outs are available from your plans and field verified dimensions.

Uses

- EnergyGuard™ Tapered PolyIso Foam Roof Insulation is designed for use over structural roof decks to provide slope to drain and to provide thermally efficient insulation.
- When properly installed, it is suitable for use under built-up, modified bitumen and most single-ply roofing systems.
- Refer to the application specifications in the current Membrane Manufacturer's Application and Specifications Manual for proper installation procedures.

Limitations and Potential Fire Hazard

- EnergyGuard™ Tapered PolyIso Foam Roof Insulation is a non-structural, non-load bearing board. It is not designed for direct traffic usage unless adequately protected.
- EnergyGuard Tapered PolyIso Insulation should be stored dry and be protected from the elements. Once properly loaded at the job site, remove factory wraps and cover with a breathable tarp.
- As an unprotected polyisocyanurate will burn, **fire safety precautions must be observed** wherever any insulation products are used.
- Direct torching of modified bitumen roofing to EnergyGuard™ Tapered PolyIso Foam Roof Insulation will present a **fire hazard**. A properly installed fiber glass base sheet **MUST** be used over the insulation.
- These tapered systems are designed to provide a top surface of slope. Each board is manufactured to exact thickness specifications. GAF cannot be held responsible for field conditions such as actual building dimensions and deck deflection.

Installation Suggestions for Tapered Systems

Although each tapered system is different, here are some suggested methods for installing a Tapered PolyIso Foam Roof Insulation system efficiently.

1. Verify building dimensions and drain locations with the Tapered Foam Roof Insulation Shop Drawing. Discrepancies should be reported to GAF prior to shipment.
2. Verify that the proper number of truckloads and piece quantities have been received on the job site.
3. Determine the area to be completed that day.
4. Measure the distance from the drain to the perimeter where the shop drawing indicates full 4 feet x 4 feet insulation boards. Verify that the system will meet the drain piece.
5. Start installing the tapered system utilizing full 4 feet x 4 feet boards. Work from the drain and finish the area where the shop drawing indicates field cutting.

6. When more than one layer of insulation is utilized, all vertical board joints should be staggered, preferably by 1/2 board.
7. Cover the insulation with the complete membrane system the same day.

Code Compliance

- Listed by Underwriters Laboratories for use under Class A, B, or C Roof Covering. See UL, ULC Inc. Building Materials and Systems Directory for details.
- Approved component of *Factory Mutual System Class I, Insulated Steel Deck Construction* when secured to the steel deck with mechanical fasteners (such as DRILL•TEC™ roof insulation fastener system).
- Mechanical attachment of roof insulation is the most dependable method of attachment to steel decks since it minimizes lateral movement and wind blow-off.
- For details, consult *Factory Mutual Loss Prevention Sheet 1-28, 1-29, 1-28R, 1-29R and Approval Guide*.
- Federal Specifications HH-I-1972.

WARNING: DO NOT EXPOSE TO OPEN FLAME OR EXCESSIVE HEAT. MAY BURN IF IGNITED. IF IGNITED, EXTINGUISH COMPLETELY.

Tapered Board Label Designations

1/8" (1%) Slope
(Tapered 1/8" to the foot)

4'x4'	Label
0.5" to 1.0"	AA
1.0" to 1.5"	A
1.5" to 2.0"	B
2.0" to 2.5"	C
2.5" to 3.0"	D
3.0" to 3.5"	E
3.5" to 4.0"	F

Start of
Tapered System

1/4" (2%) Slope
(Tapered 1/4" to the foot)

4'x4'	Label
0.5" to 1.5"	X
1.5" to 2.5"	Y
2.5" to 3.5"	Z

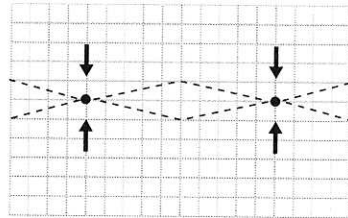
NOTE: REPAIR ROOF LEAKS PROMPTLY TO AVOID ADVERSE CONDITIONS, INCLUDING MOLD.

Product Data Sheet

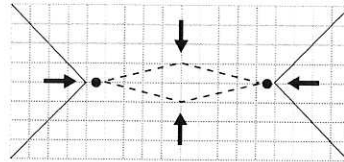
EnergyGuard™

Tapered PolyIso Insulation

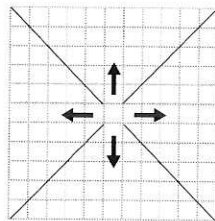
Typical Tapered Layouts



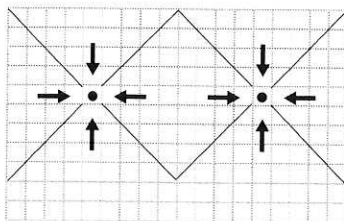
Two Way Tapered System (Crickets Optional)



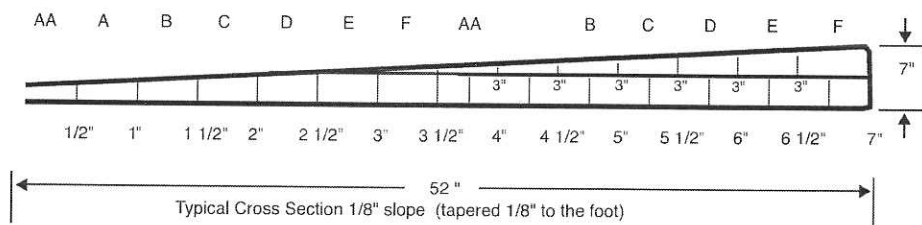
Modified Two Way Tapered System with Constant Edge Thickness (Crickets Optional)



Four Way Tapered System with Perimeter Drain



Four Way Tapered System with Variable Edge Thickness



Note: Consult FM Loss Prevention Data Sheets 1-29, 1-49 for specific perimeter and corner fastening details.

Due to ongoing testing programs and changes in FM Global requirements, the number of fasteners and their placement are subject to change without notice.

Consult current FM Approvals Guide and Loss Prevention Data Sheets 1-28, 1-29 and 1-29R for approved fastener density for EnergyGuard Roof Insulations.



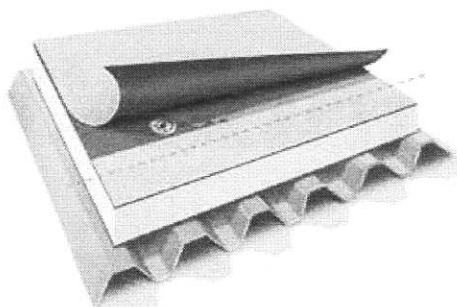
Quality You Can
Trust...From
North America's
Largest Roofing
Manufacturer!™

POLYISO INSULATION

Flat Stock and Tapered Boards

gaf.com

EnergyGuard™ POLYISO INSULATION



Description

EnergyGuard™ Polyiso Insulation board is made of glass fiber reinforced cellulosic felt facers bonded to a core of isocyanurate foam. EnergyGuard™ Polyiso Insulation manufactured in our Statesboro, GA & Gainesville, TX plant uses the latest technology in manufacturing to provide a product of the highest quality.

Features and Benefits

- EnergyGuard™ Polyiso Insulation is designed for use in practically any low-slope roof application including built up roofs, modified bitumen, or most single-ply roofing systems
- High insulation value — Superior "LTTR" value compared to any other FM Class I rated product of equivalent thickness at 5.7 per inch
- Meets the requirements of ASTM C1289 Type II, Class 1, Grade 2 (20 PSI) and available in Grade 3 (25 PSI)
- Because of its light weight, this material is easy to handle on the job site and installs faster. Easier cutting in the field provides the installer with simplified fabricating on the roof deck.

- Manufactured with EPA-compliant blowing agents containing no CFCs or HCFCs; has zero ozone depletion potential (ODP) and virtually no global warming potential (GWP)
- Available in a variety of thicknesses from 0.5" to 4.0" to best suit your needs
- Available in 4'x4' and 4'x8' boards
- Tapered panels are also available for when the roof design requires improved drainage in slopes of 1/16", 3/16", 1/8", 3/8", 1/4", and 1/2"

EnergyGuard™ Polyiso Insulation and Tapered Polyiso Insulation Codes & Compliance

- FM Approved—consult RoofNav.com for specific assemblies
- UL Classified—consult ul.com for specific assemblies
- For additional information contact GAF Technical Services at 1-800-ROOF-411 or technicalquestions@gaf.com

TYPICAL PHYSICAL PROPERTY DATA CHART (POLYISO FOAM CORE ONLY)

PROPERTY	TEST METHOD	VALUE
Compressive Strength	ASTM D1621	≥ 20 PSI
Dimensional Stability (Length + Width)	ASTM D2126	< 2%
Water Absorption	ASTM C209	< 1.5%
Moisture Vapor Transmission	ASTM E96	< 1.5 Perm
Service Temperature		-100° to 250°F
Flame Spread Index	ASTM E84	< 75*
Smoke Developed Index	ASTM E84	< 200*

*Foam Core

Flat Stock Physical Characteristics and Shipping Information

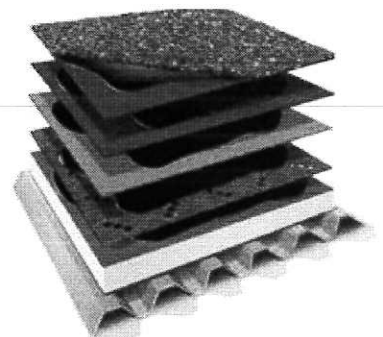
Physical Characteristics			Shipping Information (4'x4')				Shipping Information (4'x8')			
Size*	R-value	Max Flute Span (in)	Bds/Bundle	Bds/Truck	Bundles/Truck	Sq. Ft. Per Truck	Bds/Bundle	Bds/Truck	Bundles/Truck	Sq. Ft. Per Truck
1.0	5.6	2 5/8"	48	2,304	48	36,864	48	1,152	24	36,864
1.1	6.2	2 5/8"	43	2,064	48	33,024	43	1,032	24	33,024
1.2	6.7	2 5/8"	38	1,824	48	29,184	38	912	24	29,184
1.3	7.3	3 5/8"	36	1,728	48	27,648	36	864	24	27,648
1.4	7.9	4 3/8"	34	1,632	48	26,112	34	816	24	26,112
1.5	8.6	4 3/8"	32	1,536	48	24,576	32	768	24	24,576
1.6	9.1	4 3/8"	30	1,440	48	23,040	30	720	24	23,040
1.7	9.6	4 3/8"	28	1,344	48	21,504	28	672	24	21,504
1.8	10.2	4 3/8"	25	1,200	48	19,200	25	600	24	19,200
1.9	10.8	4 3/8"	25	1,200	48	19,200	25	600	24	19,200
2.0	11.4	4 3/8"	24	1,152	48	18,432	24	576	24	18,432
2.1	12.0	4 3/8"	22	1,056	48	16,896	22	528	24	16,896
2.2	12.6	4 3/8"	21	1,008	48	16,128	21	504	24	16,128
2.3	13.2	4 3/8"	20	960	48	15,360	20	480	24	15,360
2.4	13.8	4 3/8"	20	960	48	15,360	20	480	24	15,360
2.5	14.4	4 3/8"	19	912	48	14,592	19	456	24	14,592
2.6	15.0	4 3/8"	18	864	48	13,824	18	432	24	13,824
2.7	15.6	4 3/8"	17	816	48	13,056	17	408	24	13,056
2.8	16.2	4 3/8"	17	816	48	13,056	17	408	24	13,056
2.9	16.8	4 3/8"	16	768	48	12,288	16	384	24	12,288
3.0	17.4	4 3/8"	16	768	48	12,288	16	384	24	12,288
3.1	18.0	4 3/8"	15	720	48	11,520	15	360	24	11,520
3.2	18.6	4 3/8"	15	720	48	11,520	15	360	24	11,520
3.25	18.9	4 3/8"	15	720	48	11,520	15	360	24	11,520
3.3	19.2	4 3/8"	14	672	48	10,752	14	336	24	10,752
3.4	19.9	4 3/8"	14	672	48	10,752	14	336	24	10,752
3.5	20.5	4 3/8"	13	624	48	9,984	13	312	24	9,984
3.6	21.1	4 3/8"	13	624	48	9,984	13	312	24	9,984
3.7	21.7	4 3/8"	12	576	48	9,216	12	288	24	9,216
3.8	22.3	4 3/8"	12	576	48	9,216	12	288	24	9,216
3.9	23.0	4 3/8"	12	576	48	9,216	12	288	24	9,216
4.0	23.6	4 3/8"	12	576	48	9,216	12	288	24	9,216

*Other sizes available upon request

Tapered Physical Characteristics and Shipping Information

Physical Characteristics			Shipping Information (4'x4')			
Slope	Thickness	Size*	Bds/Bundle	Bds/Truck	Bundles/Truck	Sq. Ft. Per Truck
1/8"	.5"-1"	AA	64	3,072	48	49,152
	1"-1.5"	A	38	1,824	48	29,184
	1.5"-2"	B	26	1,248	48	19,968
	2"-2.5"	C	20	960	48	15,360
	2.5"-3"	D	16	768	48	12,288
	3"-3.5"	E	14	672	48	10,752
	3.5"-4"	F	12	576	48	9,216
1/4"	.5"-1.5"	X	48	2,304	48	36,864
	1.5"-2.5"	Y	24	1,152	48	18,432
	2.5"-3.5"	Z	16	768	48	12,288
	1"-2"	G	32	1,536	48	24,576
	2"-3"	H	19	912	48	14,592
	3"-4"	I	12	576	48	9,216
1/2"	.5"-2.5"	Q	32	1,536	48	24,576
	1"-3"	XX	22	1,056	48	16,896

*Other sizes available upon request





RUBEROID®

SBS HEAT-WELD™ PLUS FR

Description

RUBEROID® SBS HEAT-WELD™ PLUS FR is a premium, heavy duty fire-retarding SBS modified bitumen membrane that can be installed without the use of hot asphalt. Its core is a strong, resilient, non-woven polyester mat that is coated with an inherently fire retardant polymer modified asphalt and surfaced with mineral granules.

Uses

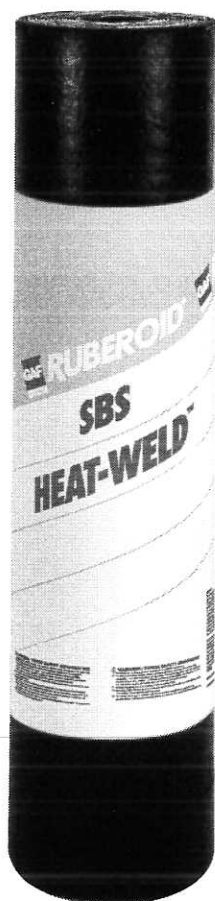
RUBEROID SBS HEAT-WELD PLUS FR is designed for new roofing and recovering applications as well as the construction of flashings. RUBEROID SBS HEAT WELD PLUS FR is also an ideal product for repairs of built-up roofing membranes or other modified bitumen systems.

Advantages

- Guarantees are available for up to 20 years.
- Lightweight—installed roof designs weigh less than 2 pounds per square foot.
- Durable—specially formulated modified asphalt gives RUBEROID SBS HEAT WELD PLUS FR lasting performance.
- Specially formulated poly burn-off film allows for easy installation
- Heat welding allows for kettle free operation.
- Resilient—RUBEROID SBS HEAT-WELD PLUS FR premium polyester

Advantages (Continued)

- mat core allows it to resist splits and tears due to its pliability and elongation characteristics.
- RUBEROID SBS HEAT-WELD PLUS FR membrane is backed by GAF Materials Corporation, a company with over 100 years in the roofing business.
- No coatings required for Class A ratings from UL and FMRC.
- Available with granular surface: black, white.



Applicable Standards

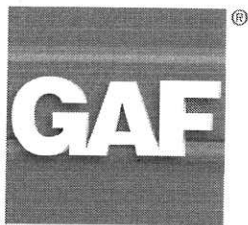
Meets ASTM D6164, Type I & II, Grade G
FM Approved
Meets CGSB-37-GP-56M
ICC ESR#1274
Miami-Dade County Product Control Approval
State of Florida Product Approval
UL/ULc Listed

Products Specifications (nominal)

Roll Size	1 square (107.7 gross sq.ft.) (10.0m ²)
Roll Length	32.6' (9.9m)
Roll Width	39.625" (1006.5mm)
Approx. Roll Weight	105 lbs (47.6kg)
Product Thickness	0.165" (4.19mm)

This product meets or exceeds the following ASTM D6164, Types I & II, Grade G, minimum requirements:

Property	Test Method	Value
Tensile Strength @ 0°F (min), lbf/in	ASTM D5147	100
Elongation @ 0°F (min), %	ASTM D5147	20
Low Temperature Flexibility (max), °F	ASTM D5147	0
Tear Strength (min), lbf	ASTM D5147	70
Dimensional Stability, (max) %	ASTM D5147	1



Superior
Bonding
For
Maximum
Flexibility
& Hold

TOPCOAT®

MATRIX™ 201

PREMIUM SBS FLASHING CEMENT (1 OF 2)

Description

MATRIX™ 201 Premium SBS Flashing Cement is a premium, asbestos-free formulation for use as a cold-applied bonding agent in SBS modified asphalt roof systems. The high level of modifiers ensures high bonding strength. Heavy, "trowel-grade" consistency makes this product ideal for flashing details, attachment of membrane to steep slopes and parapet walls and a variety of roofing and waterproofing repairs, especially at moving joints where its flexibility and elasticity make it superior to standard plastic cements.

- Superior bonding strength and high flexibility to accommodate temperature-related expansion and contraction of the roof system
- Exclusive SURE GRIP™ Technology with superior bonding strength and high flexibility
- Heavy, "trowel-grade" consistency makes this product ideal for flashing details, attachment of membrane to steep slopes and parapet walls and a variety of roofing and waterproofing repairs, especially at moving joints where its flexibility and elasticity make it superior to standard plastic cements
- Easy Application...smooth, "trowel-grade" cement maintains excellent low temperature flexibility

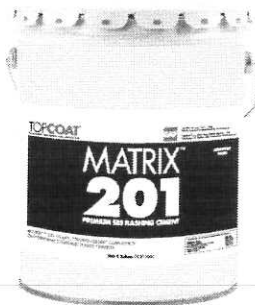
Uses

MATRIX™ 201 Premium SBS Flashing Cement heavy, "trowel-grade" consistency outperforms standard plastic cements for:

- Sealing end laps and perimeter edges of SBS modified bitumen membranes
- Sealing metal-edge flashing, gutter seams, air conditioning ducts, etc.
- Repairing splits, breaks and holes in roofing and flashing
- For attaching flashing to parapet walls, curbs and roof projections
- Along joints of metal roof panels, metal edging, gutters, coping caps and air-conditioning ducts
- At pipes and projections through below-grade damp proofing membranes, sealing shingles, repairing asphalt built-up, metal, and masonry roofs

Approvals & Certification

MATRIX™ 201 Premium SBS Flashing Cement is listed and approved by the following agencies or code bodies: Meets or exceeds the requirements of ASTM D-4586 Asphalt Roof Cement Asbestos-free, Type I and ASTM D-3409 Asphalt Roof Cement for Damp, Wet or Underwater Surfaces. Approvals may vary by region. Be sure to review pail labels before purchase.



CODE APPROVALS

MIAMI-DADE COUNTY
APPROVED

Surface Preparation

All surfaces must be clean, dry and free from any foreign matter, such as oil, grease, dirt or debris that could inhibit the bonding capabilities of the cement. On existing roofs, inspect roof deck condition; moisture in old roof may require complete removal of existing roof. Check local building codes; local building codes may require complete removal of existing roof. Contact GAF Contractor Services for details on cutting out and repairing blisters, buckles and raised edges for a smooth surface. Check all flashings, edges, drains, valleys and vents and repair as needed.

Application

Application Rate: Typical application rate when embedding polyester, glass or asphalt coated cotton fabric is 8 gallons per square for a 1/8" coat. Use 4 gallon per square for a 1/16" coat.

Application Method: Use a 1/4" notched trowel or squeegee to apply cement evenly to substrate only without gaps, dry areas or bubbles.

Attachment: Membrane Flashing: No cure time before attaching flashing; simply press into place with even pressure, smoothing out wrinkles and bubbles. Apply cement at 1 to 2 gallons per square to substrate only (more cement may be needed on rough or porous substrates). Adhere membrane to cemented substrate and press into place working out any wrinkles or non-adhered areas, making sure a sufficient amount of cement is applied to the laps so that a bead of cement is visible at all lap edges. Mechanically fasten membrane flashing on parapet walls to avoid membrane slippage.

Coursing: Apply cement to surface and install glass, polyester fabric or asphalt-coated cotton fabric into cement, repeat method for desired courses. When finished, coat with another layer of cement.

Metal: All metal should be primed. Set metal flanges into a full bead of 1/8" thick cement. Apply cement between joints and apply pressure so that a bead of cement is visible at joint edge.

Sealing/Repairs: Apply cement at a 1/8" to 1/4" thickness, working the cement into the opening or crack and spread beyond repair area approximately 2"-4". If repair area is over 1/4" wide or more than 2" long, embed glass or polyester fabric into the cement for added reinforcement then cover with additional cement extended 2"-4" beyond the fabric repair. If desired, repeat procedure for coursing application and feather each layer of fabric beyond the underlying layer.

Product Specifications (nominal)

Weight	9.1 lbs (4.1 kg) per gallon
VOC (max)	<250 grams/liter
Non-volatile content	65% minimum
SETA	110°F
Flash Point	
Sizes	11 oz/325 ml tubes or 5 gal/18.9 L



TOPCOAT®

MATRIX™ 201

PREMIUM SBS FLASHING CEMENT (2 OF 2)

Superior
Bonding
For
Maximum
Flexibility
& Hold

Precautions

Compatibility & Limitations: Do not use with any APP modified products. Do not use on wet or damp surfaces, directly over wood or on surfaces previously covered with coal tar products. Do not install over or under polystyrene insulation. **NOTE:** MATRIX™ 201 Premium SBS Flashing Cement should not be used with any APP modified or any modified bitumen membranes that have a plastic film surface or are metal foil faced. Do not use with burn off film membranes.

Temperature Range: Apply only when temperatures are 45°F (7.2°C) and rising. Cold weather will cause product to stiffen, making application difficult. Store 24 hours at room temperature prior to application. Do not heat container or attempt to thin this product. Do not apply on substrates that exceed 140°F (60°C).

Storage/Handling & FIRE WARNING:

MATRIX™ 201 Premium SBS Flashing Cement is COMBUSTIBLE and should always be kept away from heat, open flame and any source of ignition. Observe normal safeguards for storing and handling of this product prior to and during application. Do not allow adhesive to freeze.

Important: Repair leaks promptly to avoid adverse effects, including, but not limited to, mold growth.

Clean Up

Keep containers covered when not in use. Clean equipment and over spray with kerosene, mineral spirits or petroleum naphtha. Clean hands with waterless hand cleaner.

Caution

MATRIX™ 201 Premium SBS Flashing Cement contains petroleum distillate.

Ventilation – use with adequate ventilation and close containers when not in use. If TLV (Threshold Limit Value) is exceeded, respirators are required (NIOSH/MSHA). Inhalation of high vapor concentration may result in headaches and/or dizziness. Remove individual to fresh air and administer oxygen if breathing is difficult. If breathing has stopped, administer artificial respiration, keep victim warm and order emergency medical attention immediately.

Eye Contact – Rinse immediately with water for 15 minutes and seek medical advice.

Personal Protection – Irritation may result from prolonged or repeated contact with skin. Wear chemical resistant gloves, protective goggles and protective clothing, if needed.

Fire Protection – MATRIX™ 201 Premium SBS Flashing Cement is COMBUSTIBLE and should always be kept away from heat, open flame and any source of ignition.

Waste Disposal – Empty containers must be disposed of in an approved landfill in accordance with local, state and federal regulations.

DATA REPORTED ARE BASED ON AVAILABLE INDEPENDENT AND IN-HOUSE RESOURCES. GAF RESERVES THE RIGHT TO CHANGE OR MODIFY, AT ITS DISCRETION AND WITHOUT PRIOR NOTICE, ANY OF THE INFORMATION, REQUIREMENTS, SPECIFICATIONS OR POLICIES CONTAINED IN THIS DOCUMENT.

Limited Warranty

GAF warrants that at the time of delivery, the product contained herein shall conform to GAF's specifications therefor. THIS GAF WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. It is purchaser's sole responsibility to determine suitability of this product for any particular application. Recommendations made by GAF are believed to be reliable but GAF makes NO WARRANTY OF RESULT to be obtained. Purchaser's sole and exclusive remedy, regardless of the theory on which a claim may be based (including, without limitations, negligence, contract, breach of warranty, strict product liability or misrepresentation) is the replacement of this product or in alternative, the original purchase price of this product. In NO event shall GAF be liable for INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR PUNITIVE DAMAGES. Purchaser must notify GAF, in writing of any claims at 1361 Alps Road, Building 11, Wayne NJ, 07470; Attention Guarantee Services Dept. within 30 days of discovery of any alleged manufacturing defect. Purchaser must allow GAF to inspect this product as installed as part of the claims procedure, or, at GAF's option, must provide GAF, with sample cuts taken from the roof. No agent or employee of GAF or anyone else is authorized to modify the terms of this limited warranty.



TOPCOAT®

MATRIX™ 307

PREMIUM ASPHALT PRIMER (1 OF 2)

Promotes
Excellent
Bond
For Asphalt
Roof
Systems

Description

MATRIX™ 307 Premium Asphalt Primer is a general purpose, asbestos-free foundation coating for all types of asphalt-based roofing materials, e.g., hot-mopped or cold-applied asphalt coatings, roof cements, and asphalt-based roof and flooring adhesives. MATRIX™ 307 has an excellent penetration rate that promotes a tough bond for coating and adhesives; strength and flexibility to accommodate temperature-related expansion and contraction of the roof system.

- Excellent penetration rate—promotes a tough, weather-resistant bond for coating and adhesives
- Strength and flexibility—accommodates temperature-related expansion and contraction of the roof system
- Easy Application—sprayer, brush or roller; maintains excellent low temperature flexibility

Uses

MATRIX™ 307 Premium Asphalt Primer has an excellent penetration rate that promotes a tough, weather-resistant foundation coating for:

- Concrete and masonry roofs, walls, or floors prior to the use of asphalt cutback adhesives
- Metal edging and flashing, asphalt, or weathered composition roofing prior to the application of hot-mopped or cold-applied built-up roofing materials
- Undercoating for LeakBuster™ Aluminum Roof Coatings or Asphalt Roof Coatings and Emulsions
- Gypsum surfaces

Approvals & Certification

MATRIX™ 307 Premium Asphalt Primer is listed and approved by the following agencies or code bodies: Underwriters Laboratories (UL), Factory Mutual (FM). Meets or exceeds the requirements of ASTM D41 Type 1 Asphalt Primer Used in Roofing, Damp Roofing, and Waterproofing. Approvals may vary by region. Be sure to review pail labels before purchase.

Surface Preparation

All surfaces to be primed must be clean, dry, and free from any foreign matter, such as oil, grease, dirt, or debris that could inhibit the bonding capabilities of the primer. Sweep (or wire brush metal surfaces) and remove oil, grease, dirt, or other foreign material that could inhibit bonding. On existing roofs, inspect roof deck condition; moisture in old roof may indicate need for roof repair. Contact GAF Contractor Services for details on cutting out and repairing blisters, buckles, and

raised edges for a smooth surface. Check all flashings, edges, drains, valleys, and vents and repair as needed. Use MATRIX™ 203 Plastic Roof Cement for repairs and follow can instructions.

Application

Application Rate: Typical application rate is 1/2 gallon per square; varies with texture of surface to be primed. Drying time is 4 - 8 hours between coats.

Material Preparation: Stir well before application.

Application Method: Apply primer with a roller, brush, or sprayer, covering the surface at an even 1/5 gallons per 100 square feet.

Spray: A Graco 45:1 pump or equivalent is recommended. Consult equipment manufacturer for optimum psi, spray tip size, length of hose, and number of spray guns to achieve uniform coat.

Brush: Apply smooth, even coat, using parallel strokes for uniform coat. If first coat is completely absorbed, apply a second coat.

Roller: Apply smooth, heavy coat, using parallel strokes for uniform coat.

Precautions

Compatibility & Limitations: Do not use on wet or damp surfaces or on surfaces previously covered with coal tar products. On concrete decks, previous use of wax/resin curing compound may inhibit bonding.

Temperature Range: Apply only when temperatures are 45°F (7.2°C) and rising. Cold weather will cause product to stiffen, making application difficult. Store 24 hours at room temperature prior to application. Do not heat container or attempt to thin this product. Not recommended for application on substrates that exceed 140°F (60°C).

Storage/Handling & FIRE WARNING:

MATRIX™ 307 Premium Asphalt Primer is COMBUSTIBLE and should always be kept away from heat, open flame, and any source of ignition. Observe normal safeguards for storing and handling of this product prior to and during application. Do not allow primer to freeze.

Important: Repair leaks promptly to avoid adverse effects, including, but not limited to, mold growth.



CODE APPROVALS



Cements and coatings for roofing systems as to external fire exposure.

Product Specifications (nominal)

Weight	7.4 lbs (3.36 kg) per gallon
VOC (max)	350 grams/liter
Non-volatile content	85% by weight minimum
Sizes	3 gal/11.4 L or 5 gal/18.9 L or 55 gallon/208.2 L



TOPCOAT®

MATRIX™ 307

PREMIUM ASPHALT PRIMER (2 OF 2)

Promotes
Excellent
Bond
For Asphalt
Roof
Systems

Clean Up

Keep containers covered when not in use. Clean equipment and over spray with kerosene, mineral spirits, or petroleum naphtha. Clean hands with waterless hand cleaner.

Caution

MATRIX™ 307 Premium Asphalt Primer contains petroleum distillate. Do not thin.

Ventilation – use with adequate ventilation and close containers when not in use. If TLV (Threshold Limit Value) is exceeded, respirators are required (NIOSH/OSHA). Inhalation of high vapor concentration may result in headaches and/or dizziness. Remove individual to fresh air and administer oxygen if breathing is difficult. If breathing has stopped administer artificial respiration, keep victim warm, and order emergency medical attention immediately.

Eye Contact – Rinse immediately with water for 15 minutes and seek medical advice.

Personal Protection – Irritation may result from prolonged or repeated contact with skin. Wear chemical-resistant gloves, protective goggles, and protective clothing, if needed.

Fire Protection – MATRIX™ 307 Premium Asphalt Primer is COMBUSTIBLE and should always be kept away from heat, open flame, and any source of ignition.

Waste Disposal – Empty containers must be disposed of in an approved landfill in accordance with local, state, and federal regulations.

DATA REPORTED ARE BASED ON AVAILABLE INDEPENDENT AND IN-HOUSE RESOURCES. GAF RESERVES THE RIGHT TO CHANGE OR MODIFY, AT ITS DISCRETION AND WITHOUT PRIOR NOTICE, ANY OF THE INFORMATION, REQUIREMENTS, SPECIFICATIONS, OR POLICIES CONTAINED IN THIS DOCUMENT.

Limited Warranty

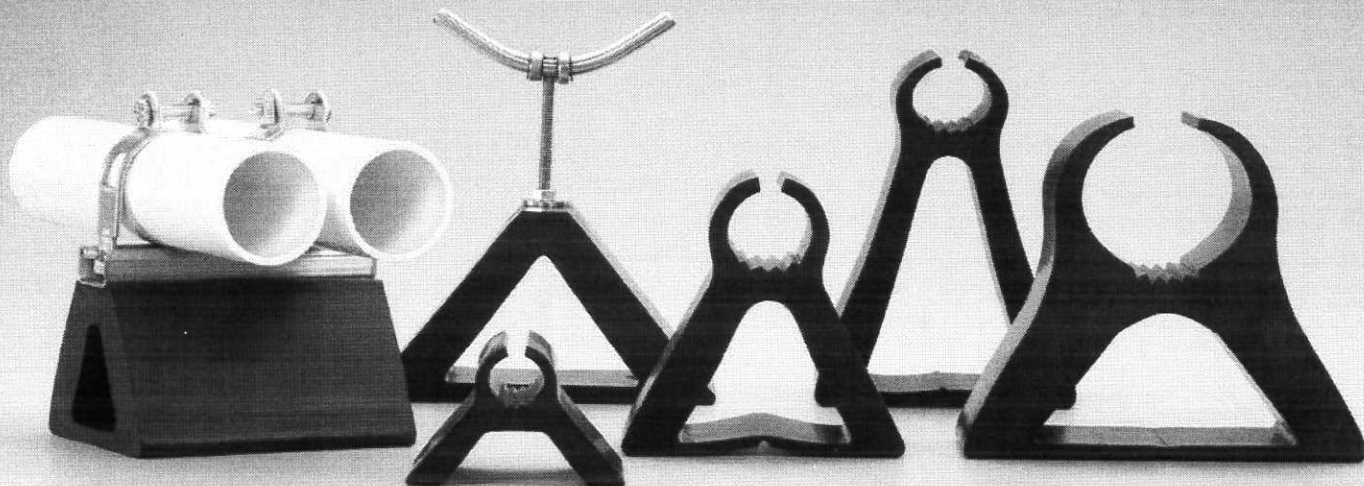
GAF warrants that at the time of delivery, the product contained herein shall conform to GAF's specifications therefor. THIS GAF WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. It is purchaser's sole responsibility to determine suitability of this product for any particular application. Recommendations made by GAF are believed to be reliable but GAF makes NO WARRANTY OF RESULT to be obtained. Purchaser's sole and exclusive remedy, regardless of the theory on which a claim may be based (including, without limitations, negligence, contract, breach of warranty, strict product liability, or misrepresentation) is the replacement of this product or in alternative, the original purchase price of this product. In NO event shall GAF be liable for INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES. Purchaser must notify GAF, in writing, of any claims at 1361 Alps Road, Building 11, Wayne NJ, 07470; Attention Guarantee Services Dept. within 30 days of discovery of any alleged manufacturing defect. Purchaser must allow GAF to inspect this product as installed as part of the claims procedure, or, at GAF's option, must provide GAF with sample cuts taken from the roof. No agent or employee of GAF or anyone else is authorized to modify the terms of this limited warranty.

For Application Questions

Contact GAF Contractor Services at 1-800-766-3411 or visit www.gaf.com.

OMG. PipeGuard

ROOFTOP PIPE SUPPORTS

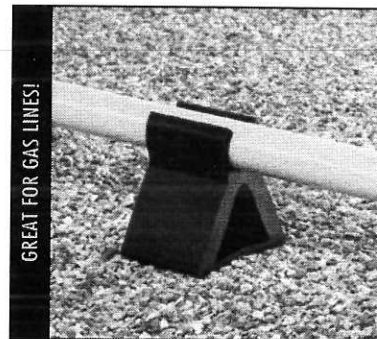
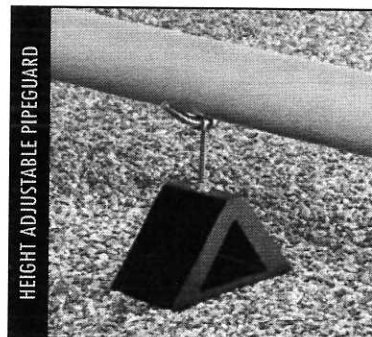
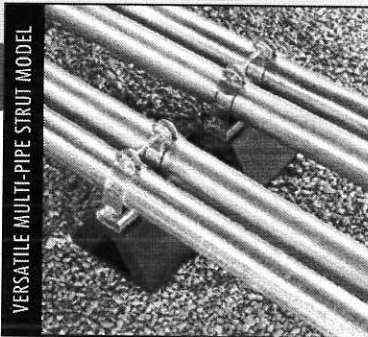


No More Wood Blocks

The PipeGuard lineup of rooftop pipe supports is the roofing industry's preferred method of supporting smaller pipes. Nothing is as easy, effective, economical or versatile.

Fast, Effective and Easy

- Supports steel pipe, electrical conduit, PVC pipe and copper tubing
- EPDM rubber bases prevent damage to roof membranes
- Triangle shape sheds water
- Will not deteriorate from water or sunlight exposure
- Wide platform base provides stability and balance
- Available in six sizes for pipes up to 5 inches in diameter and heights up to 8.5 inches
- Strut Model supports multiple pipes*



*Call for more
information and
pricing today.*

*Uses standard B-Line
clamps, sold separately.



FASTENERS ADHESIVES DRAINS PIPE SUPPORTS



PipeGuard SIZING CHART

ROOFTOP PIPE SUPPORTS

MODEL

PIPE CLEARANCE

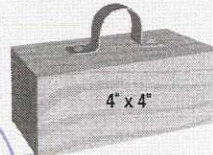
PIPE DIAMETER

REPLACES WOOD BLOCK

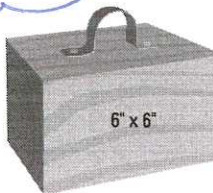
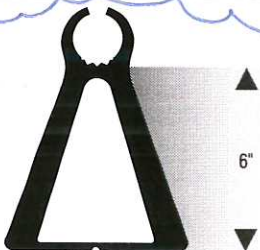
MINI
PGM-BK



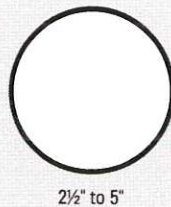
SMALL
PGS-BK



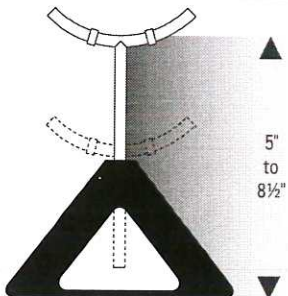
TALL SMALL
PGTS-BK



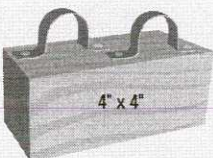
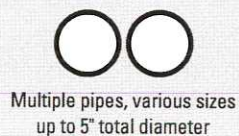
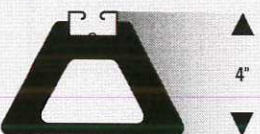
LARGE
PGL-BK



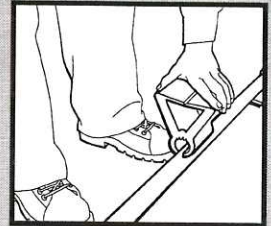
HEIGHT ADJUSTABLE
PGHA85-BK



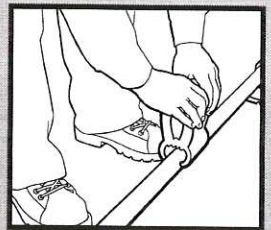
STRUT MODEL
PGSTRUT6-BK



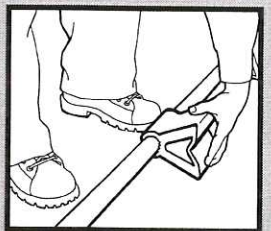
EASY TO USE!



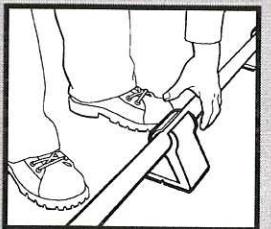
POSITION



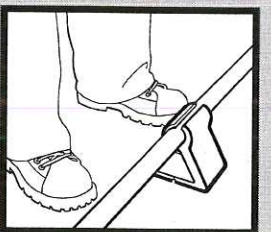
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ADJUST



DONE!



ROOFING PRODUCTS

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information and
pricing today.



RP09083



Pipe & Conduit Flashings

Models PL/D, PL/S

Model PL/D (2 Piece Divided)

Intended Use:

Designed for new or re-roof applications on prefabricated equipment supports and connected conduit.

Model PL/S (1 Piece Slipover)

Intended Use:

For installation over project built equipment supports, stand pipes, VTR's, and unconnected conduit.

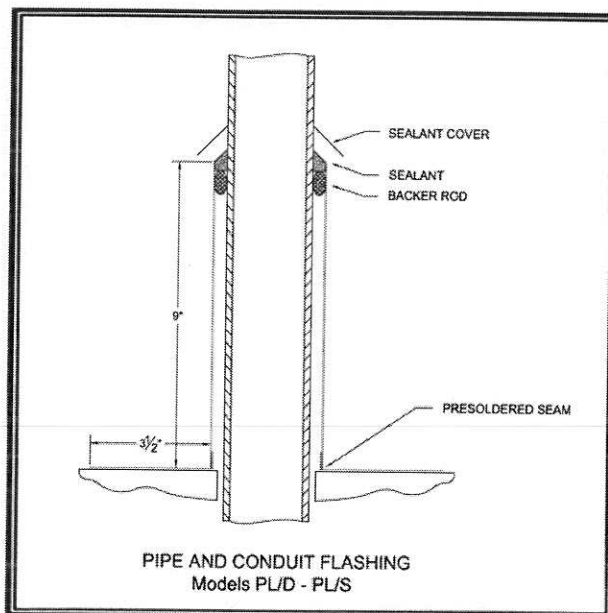
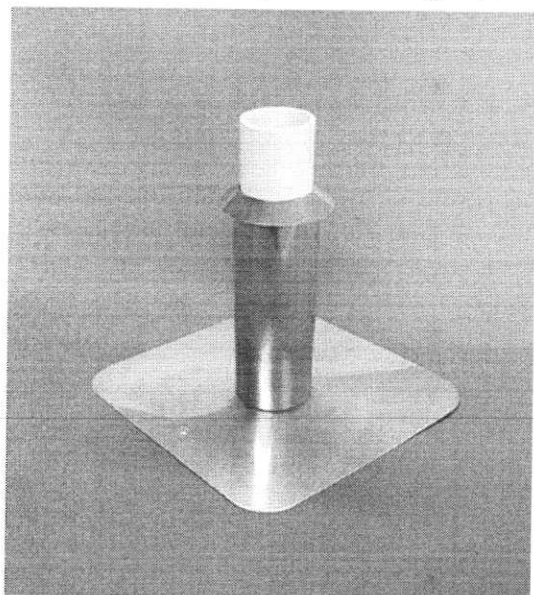
Advantages and Unique Features:

1. Requires absolutely no maintenance.
2. No curbs required.
3. Unit is designed for individual pipe size, no field cutting necessary.
4. Sealant cover provides total U.V. shielding.

Materials:

1. 26 Ga. stainless steel type 304 2B finish ASTM A240
2. 50% lead / 50% tin ASTM B32 or specify non lead solder ASTM 96.5TS

Available for slopes to 45 degrees



PO Box 610397, North Miami, FL 33261-0397

800-228-2580

FAX: 305.685.6350

www.sbcflashings.com

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CCC057467

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PORT EVERGLADES POWER PLANT

BUILDING: STORE ROOM



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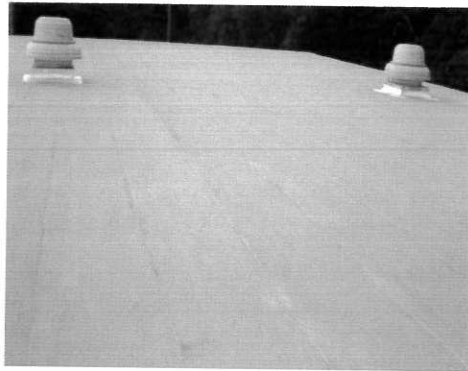
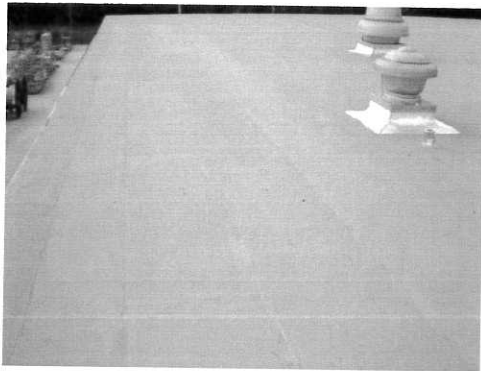
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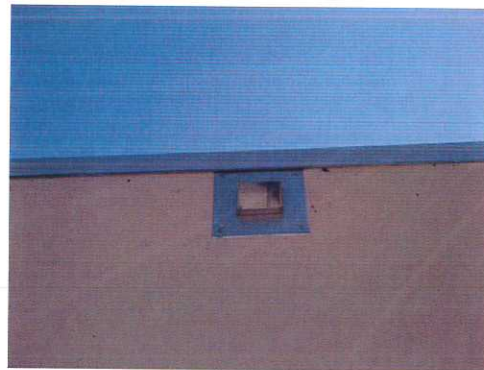
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Chapel Trail-Pembroke Pines, FL



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Columbus Center



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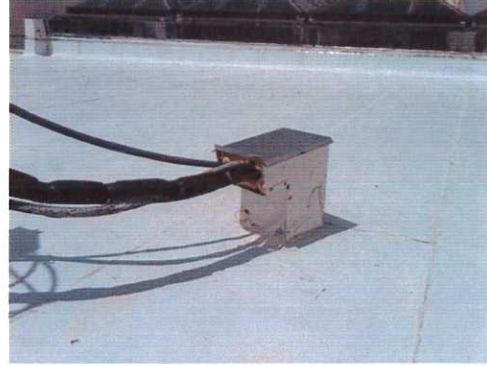
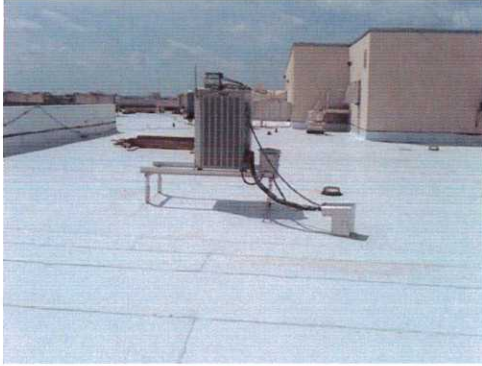


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Galleria Center, Fort Lauderdale



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Buckley Towers



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Wachovia Bank- Wilton Manors



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Charles Perry and Marc Building

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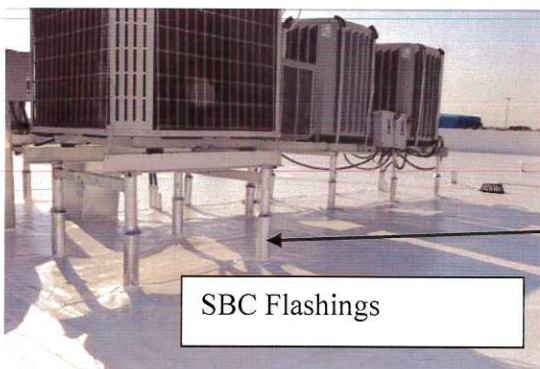
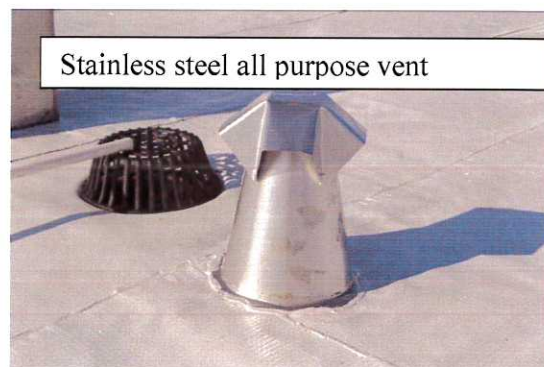
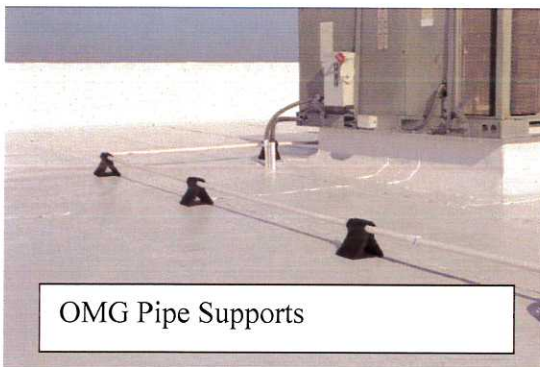
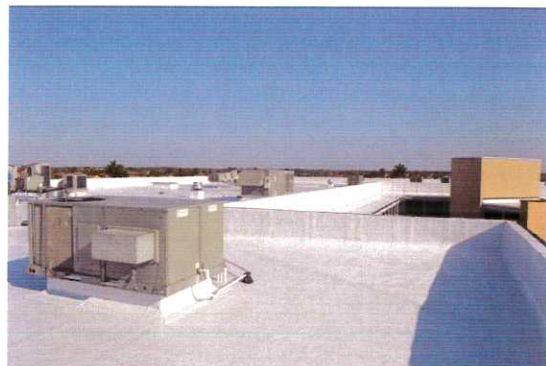
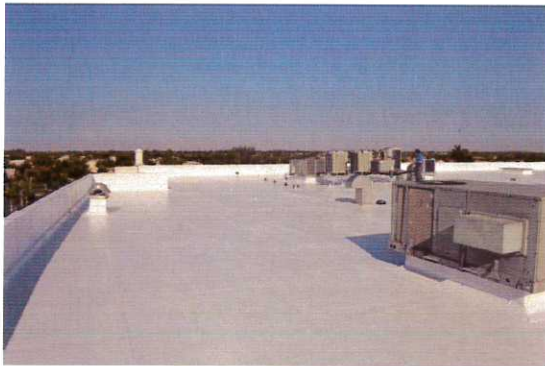
Infinity Roofing & Sheet Metal Inc

Licensed - Insured
CCC057467

1150 NW 10th Avenue Suite 201W
Pompano Beach, FL. 33069

Phone: (954) 917-7107
Fax: 954-917-7108
email - info@infinityrfg.com

Atria At Pembroke Pines



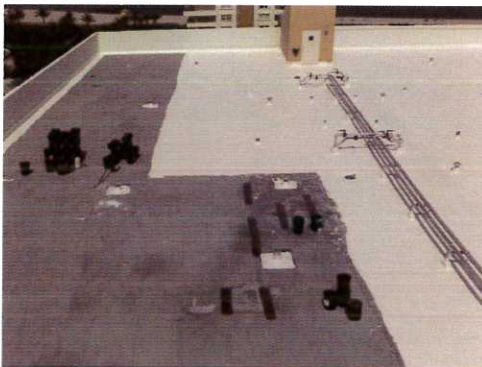
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Commodore Plaza-Key Biscayne (Energy Star Coating)



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Pompano Beach, FL. 33069

Phone: (954) 917-7107
Fax: 954-917-7108
email - info@infinityrfg.com

Florida International University- Marc Building- Garland Standing Seam Metal Roof



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Pompano Beach, FL. 33069

Phone: (954) 917-7107
Fax: 954-917-7108
email - info@infinityrfg.com



Infinity Roofing & Sheet Metal, Inc.

FIU
Charles Perry and Marc Building

Print #100812096
Date: 08/12/10
Lat/Lon: 25.755190 -80.373576
 Aerial Photography, Inc. 954-568-0484

FIU- Marc Building Standing Seam Metal Roof System

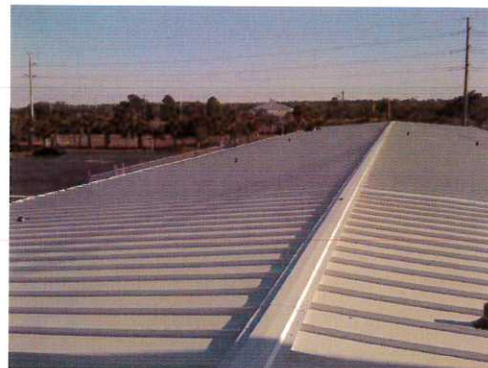
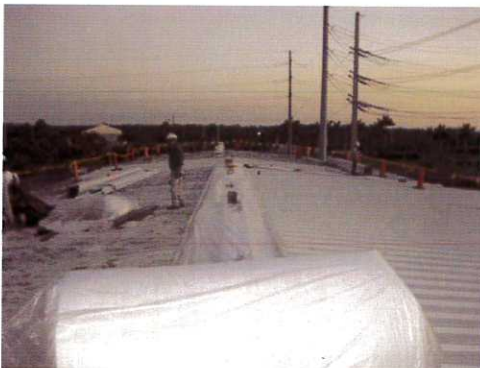
Infinity Roofing & Sheet Metal Inc

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CCC057467

1150 NW 10th Avenue Suite 201W
Pompano Beach, FL. 33069

Phone: (954) 917-7107
Fax: 954-917-7108
email - info@infinityrfg.com

FPL- Fort Myers Power Plant (MBCI Standing Seam Metal Roof System)



Infinity Roofing & Sheet Metal Inc

Licensed - Insured
CCC057467

1150 NW 10th Avenue Suite 201W
Pompano Beach, FL. 33069

Phone: (954) 917-7107
Fax: 954-917-7108
email - info@infinityrfg.com

Ken Braidman- Bal Harbour- Energy Star Coating



Infinity Roofing & Sheet Metal Inc

Licensed - Insured
CCC057467

1150 NW 10th Avenue Suite 201W
Pompano Beach, FL. 33069

Phone: (954) 917-7107
Fax: 954-917-7108
email - info@infinityrfg.com

Dr. Cornfeld Residence 13,000 s/f



Infinity Roofing & Sheet Metal Inc

City of Hollywood Sludge Building

Location: Hollywood

Tapered System Description:

Material: ISO
Tapered Area (sq): 16.43
Slope: 1/8"
Minimum Start: 1.5"
Maximum Thick: 4.9"
Fill Insulation: ISO

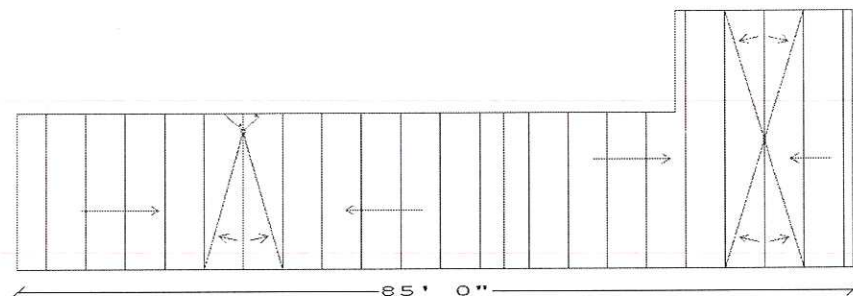
Base Layer: N/A
Overlay: N/A

Avg. R-Value: 17.0
Min. R-Value: N/A

Cricket Material: ISO
Cricket Area (sq): 1.75
Cricket Slope: 1/4"
Cricket Fill: N/A
Cricket Max. Height: 1.5"

Total Sqs. Applied: 29.54
Total Sqs. Material: 35.84
Total ISO Truckloads: 0.16
PERLITE Truckloads: 0.00

Notes:





DIAMOND PLEDGE™ ROOF GUARANTEE



No. _____

OWNER: _____ PERIOD OF COVERAGE: _____ YEARS

NAME AND TYPE OF BUILDING: _____

ADDRESS OF BUILDING: _____

SPECIFICATION: _____ AREA OF ROOF: _____ SQUARES

TYPE OF FLASHING: _____ LENGTH OF FLASHING: _____ LINEAL FEET

APPLIED BY: _____

DATE OF COMPLETION: _____ EXPIRATION DATE: _____

THE GUARANTEE

GAF MATERIALS CORPORATION ("GAFMC") guarantees to you, the original owner of the building described above, that GAFMC will repair leaks through the GAFMC roofing membrane, liquid applied TOPCOAT™ membrane or coating, base flashing, high wall waterproofing flashing, insulation, expansion joint covers and preflashed accessories (the "GAFMC Roofing Materials") resulting from the causes listed below while this guarantee is in effect.

Scope Of Coverage - Leaks Caused by:

1. Natural deterioration of the GAFMC Roofing Materials
2. Blisters
3. Bare Spots
4. Fish-mouths
5. Ridges

6. Splits not caused by structural failure or movement of or cracks in substrate roof base or non-GAFMC insulation over which the GAFMC Roofing Materials are applied
7. Buckles and wrinkles
8. Workmanship in applying the GAFMC Roofing Materials
9. Slippage of membrane or base flashing

There is no dollar limit on covered repairs. Leaks caused by any materials other than those listed above, such as the roof deck, non-GAFMC insulation, or any other materials used in the construction of the roof system, are not covered.

GUARANTEE PERIOD

This guarantee ends as of the date listed above. Note: Some systems require the use of specialized accessories in the roofing system. Where Lexsoco or uncoated Mcurb flashings are used, they are covered by this guarantee **only** for the first ten years.

ELIMINATOR™ ADVANTAGE

In addition to the repair of leaks as detailed above, if a Stratavent™ Eliminator™ perforated venting base sheet is installed directly over isocyanurate insulation, GAFMC will also make repairs to eliminate blisters that occur between the Stratavent™ Eliminator™ perforated venting base sheet and the isocyanurate insulation even if these blisters do not result in leaks.

OWNER'S RESPONSIBILITIES

In the event of a leak through the GAFMC Roofing Materials, you must notify the GAFMC Guarantee Services, 1361 Alps Road, Bldg. 11-1, Wayne, New Jersey 07470 in writing about the leak within 30 days after its discovery or GAFMC will have no responsibility for any repairs. NOTE: the roofing contractor is NOT an agent of GAFMC; **notice to the roofing contractor is NOT notice to GAFMC.**

By notifying GAFMC, you authorize GAFMC to investigate the cause of the leak. If the investigation reveals that the leak is not covered by this Guarantee, you agree to pay an investigation cost of \$500. This Guarantee will be cancelled if you fail to pay this cost within 30 days of receipt of an invoice for it.

You must perform regular inspections and maintenance and keep records of this work. Any equipment or material that impedes any inspection must be removed at your expense so that GAFMC can perform inspections. You must make repairs to the building or roof components not covered under the guarantee that are identified by GAFMC during an inspection as necessary to preserve the integrity of the GAFMC Roofing Materials. This guarantee will be cancelled or suspended if you fail to do so in a timely manner.

You may make temporary repairs to minimize damage to the building or its contents in an emergency, at your sole expense. These repairs will not result in cancellation of the guarantee as long as they are reasonable and customary and do not result in permanent damage to the GAFMC Roofing Materials.

EXCLUSIONS FROM COVERAGE

This Guarantee does NOT cover leaks caused by the following or conditions other than leaks:

1. Lack of roof maintenance.
2. Unusual weather conditions or natural disasters including, but not limited to, windstorms, hail, floods, hurricanes, lightning, tornadoes, and earthquakes.
3. Damage to the roof constructed of the GAFMC Roofing Materials due to: (a) movement or cracking of the roof deck or building; (b) improper installation or failure of any non-GAFMC insulation or materials; (c) infiltration or condensation of moisture through or around the walls, ceilings, building structure or surrounding materials except where wall waterproofing coatings are installed; leaks are covered (d) chemical attack on the membrane, including, but not limited to, exposure to grease or oil; or (e) the failure of wood nailers to remain attached to the structure.
4. Traffic of any nature on the roof.
5. Changes in the use of the building unless approved in writing in advance by GAFMC.
6. Conditions that prevent positive drainage or result from ponding water.
7. Any repairs, modifications or additions to the GAFMC Roofing Materials after the roof is completed, unless approved by GAFMC in writing in advance.
8. Any condition (e.g., base flashing height or lack of counterflashing) that is not in accordance with GAFMC's Application and Specifications Manual unless specifically accepted by GAFMC in writing.

No representative, employee or agent of GAFMC has the authority to assume any additional liability or responsibility for GAFMC unless approved in writing by an authorized Contractor Services Manager. GAFMC shall not be responsible for or liable for any change or amendment to the GAFMC roof specifications in regard to the construction of the roof described above unless the change and/or amendment to the specifications is approved in writing by an authorized GAFMC Contractor Services Manager. NOTE: Any inspections made by GAFMC are limited to a surface inspection only, are for GAFMC's sole benefit, and do not constitute a waiver of any of the terms and conditions of this guarantee.

ASSIGNABILITY

You may assign this guarantee to a subsequent owner of this building for the remaining term only if: 1) the request is in writing within 60 days after ownership transfer; 2) you make any repairs to the GAFMC Roofing Materials or other roofing or building components that are identified by GAFMC after an inspection as necessary to preserve the integrity of the GAFMC Roofing Materials; and 3) you pay an assignment fee of \$500. This Guarantee is NOT otherwise assignable by contract or operation of law, either directly or indirectly.

LIMITATION OF DAMAGES; MEDIATION; JURISDICTION; CHOICE OF LAW

THIS GUARANTEE IS EXPRESSLY IN LIEU OF ANY OTHER GUARANTEES OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED GUARANTEE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, and of any other obligations or liability of GAFMC, whether any claim against it is based upon negligence, breach of guarantee or any other theory. In NO event shall GAFMC be liable for any CONSEQUENTIAL OR INCIDENTAL DAMAGES of any kind, including, but not limited to interior or exterior damages and/or mold growth.

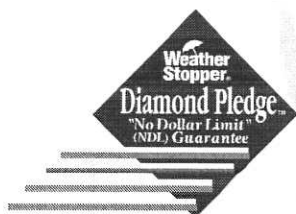
The parties agree that, as a condition precedent to litigation, any controversy or claim relating to this Guarantee shall be first submitted to mediation before a mutually acceptable mediator. In the event that mediation is unsuccessful, the parties agree that neither one will commence or prosecute any lawsuit or proceeding other than before the appropriate state or federal court in the State of New Jersey. This Guarantee shall be governed by the laws of the State of New Jersey, without regard to principles of conflicts of laws. Each party irrevocably consents to the jurisdiction and venue of the above identified courts.

NOTE: This Guarantee becomes effective only when all bills for installation and supplies have been paid in full to the roofing contractor and materials suppliers, and the Guarantee charge has been paid to GAF Materials Corporation.

This guarantee is applicable only in the U.S.A. and must have a raised seal affixed to be valid.

GAF MATERIALS CORPORATION
1361 ALPS ROAD, BUILDING 11-1
WAYNE, NJ 07470


By: _____
Authorized Signature Date



Diamond Pledge™ "NDL" Roof Guarantee

The Ultimate Option For
Protecting Your Facility

GAF's Diamond Pledge™ Roof Guarantee provides you with comprehensive system protection so that if your roof membrane system leaks from either material defects or application errors, the costs of repair are 100% covered!

	STANDARD Ltd. Product Guarantee	 Material Defects & Workmanship Errors
What Does The Guarantee Cover?	Material Defects Only	Material Defects & Workmanship Errors
Covers Entire System, Including Accessories & Insulation?	No	Yes
Unlimited Dollar Amount For Covered Repairs?	No	Yes
Maximum Coverage Period?	12 Years	20-25* Years
Well Roof™ Advantage* (FREE 25% Coverage Extension)?	No	Yes
Includes Replacement Material?	Yes, Pro-rated Based On Use	Yes, 100%
Includes Cost Of Labor To Correct Problem?	No	Yes
Who Can Offer Guarantee?	Anyone	GAF Master & Master Select Certified Contractors
Is Guarantee Transferable To Next Owner?	No	Yes
Metal Flashings Including "Custom Fit" Covered	No	Yes
High Wind Coverage Available?	No	Yes
Enhanced Coverage with Eliminator™ Advantage?	No	Yes

*On roofs with the Well Roof™ Advantage, Please see Well Roof™ brochure for complete repair details.

Eligibility Requirements for the Diamond Pledge™ NDL Guarantee

- 1. Your roof must be installed by an GAF Master Select or GAF Master roofing contractor certified by GAF Materials Corporation for Asphaltic Systems...Torch, Hot Mopped or Cold Applied Adhesive.**
- 2. The roofer must follow GAF's procedures for guarantee issuance, including notifying GAF of the need for a guarantee before roofing commences.**
- 3. You must use GAF GAFGLAS® felts and/or RUBEROID® membranes.**
- 4. You must use GAF Products in conjunction with the membrane system including EnergyGuard™ Insulation (when applicable); Mweld® Pre-Flashed Vents, Drains, and Scuppers (when applicable); Drill-Tec™ Fasteners; Metalastic® Expansion Joint Covers (when applicable); and Matrix™ Cements/Adhesives.**



**Quality You Can Trust Since 1886...From
North America's Largest Roofing Manufacturer**

Two (2) Piles of Membrane Flashing on the Walls (Approx 10" Up):

- (A) Heat Weld Smooth
- (B) Heat Weld Plus FR

24 64 Stainless Steel Counter Flashing installed using #14 x 1 1/2" long stainless steel screws with their stainless steel neoprene washers @ 6" on center. Seal top of counter flashing using Polyurethane Sealant.

Stratavent available installed using Drill Tec Fasteners. per Engineer's calculations.

Aluminum termination bar fastened 6" on center using 1/4" expansion anchors @ 6" on center. Seal term. Bar with three (3) courses of 64 F Flashing cement and fabric.

Heat Weld Plus FR

caulkship.

Existing lightweight concrete Deck

New 2"x8" PT wood blocking installed per RAS III.

New 24 64 Stainless Steel Eaves Drip and 22 64 Stainless Steel Hurricane Cleat installed per RAS III. Eaves drip to be stripped in with an additional 8" wide strip of Heat Weld Smooth membrane.

Upper Roof Detail

NTS: Not to Scale

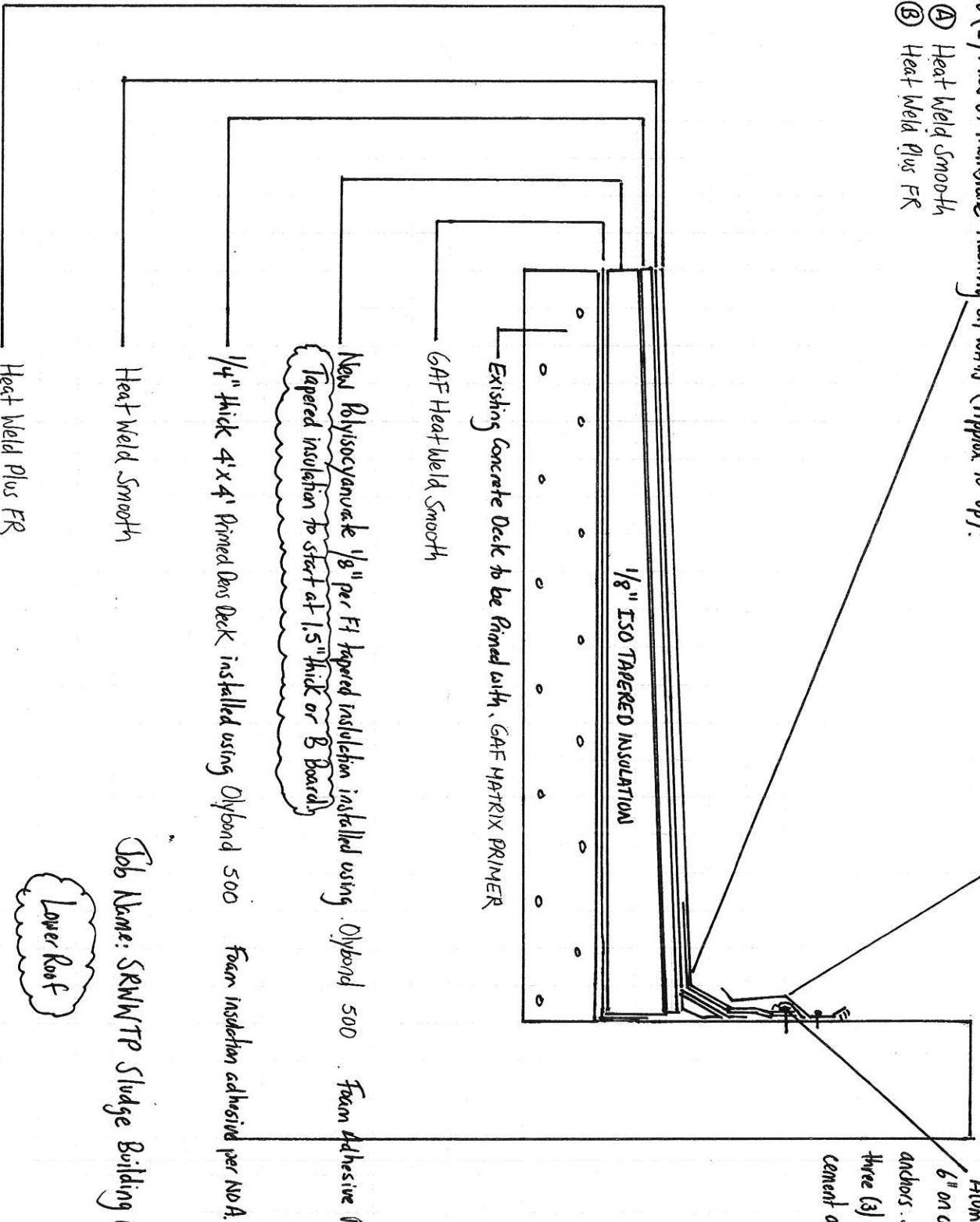
Job Name: SEMWTP Sludge Building Roof Replacement.

Two (2) Piles of membrane flashing on walls (Approx 10" Up):

- ④ Heat Weld Smooth
- ③ Heat Weld Plus FR

24 GA stainless steel counter flashing installed using #14 x 1 1/2" long stainless steel screws with their stainless steel neoprene washers @ 6" on center. Seal top of counter flashing using Polyurethane sealant.

Aluminum termination Bar fastened 6" on center using 1 1/4" long expansion anchors. Seal termination Bar with three (3) courses of GAF Flashing cement and fabric membrane.



Job Name: SRMWTP Sludge Building Roof Replacement.

Lower Roof

NTS: Not to Scale.



*"Quality You Can Trust Since 1886...From
North America's Largest Roofing
Manufacturer"*

*Technical Services
1 Campus Drive
Parsippany, NJ 07054
Phone: 1-800-766-3411, option 1*

January 22, 2015

Javier Martinez
Infinity Roofing
1150 SW 10th Avenue Suite 201W
Pompano Beach, FL 33069

Project: City of Hollywood, FL

Dear Mr. Martinez:

GAF's Quality Assurance Program is based on the principles of ISO 9001:1994, updated to reflect the changes in ISO 9001:2000. Known internally as the Quality Improvement Program, QIP, it has been in force since 1992. QIP contains clearly stated requirements for:

- Customer Input and Feedback
- Documented Product and Process Specifications
- Change Control, and Document Control
- Incoming Raw Material Testing, to specifications agreed with suppliers
- Process Control
- Inspection and Testing Methods
- Laboratory and Process Equipment Methods and Calibration
- Product Status and Shipping
- Process Capability
- Test Method and Equipment Standardization
- Corrective Action
- Quality Audits
- Training
- Statistical Techniques, including Statistical Process Control.

All GAF manufacturing locations have active QIP programs and performance goals. Each plant's compliance with system and product quality requirements is established through routine internal audits, conducted by trained internal auditors from GAF Central Quality Assurance. These audits are supported by documented Corrective Action plans to resolve non-conformances, whether in the product or systems areas.

GAF's Quality Improvement Program exceeds the requirements of ISO 9001 in several areas, notably Incoming Raw Material Control and Testing, Process Control and Capability, Test Method and Equipment Standardization, Corrective Action, and Statistical Techniques. All of these areas are essential to providing premier quality products, without the bureaucratic overhead and delays of an ISO 9001 program. GAF has chosen to develop and implement a results-based Quality Improvement System, rather than a document based ISO-style program. We strive to improve the quality of our products and services, a concept missing from ISO 9001:1994.

In addition, GAF complies with the requirements of external standards agencies, notably:

- Underwriters Laboratories (UL),
- Factory Mutual Association (FM),
- International Conference of Building Officials (ICBO),
- Dade County, Florida,
- State of Wisconsin Administrative Code,
- The American Society for Testing and Materials (ASTM)

Each product complying with specific requirements of any of these organizations is so marked on the product packaging. Many of these organizations audit compliance to their standards through both routine and unannounced visits to GAF plants.

If you have any further questions, please contact us at 1-800-766-3411, option 1.

Sincerely,

Jane Lampman

Jane Lampman
Technical Services Specialist



*"Quality You Can Trust Since 1886...From
North America's Largest Roofing
Manufacturer"*

*Technical Services
1 Campus Drive
Parsippany, NJ 07054
Phone: 1-800-766-3411, option 1*

January 22, 2015

Javier Martinez
Infinity Roofing & Sheet Metal, Inc.
1150 SW 10th Avenue Suite 201W
Pompano Beach, FL 33069

Subject: Contractor/System Certification

Project: City of Hollywood, FL

Dear Mr. Martinez:

Infinity Roofing & Sheet Metal, Inc. of Pompano Beach, FL is a GAF Master Select roofing contractor for asphaltic, single-ply and restoration roofing systems and is eligible to obtain a GAF Diamond Pledge™ (NDL) guarantee for up to 20 years.

GAF specification I-0-2-HGPFR is eligible to receive a 20-year Diamond Pledge™ (NDL) guarantee, provided all current GAF application requirements and guarantee procedures are met.

I-0-2-HGPFR over Primed Concrete Deck

Ruberoid® SBS Heat-Weld™ Smooth: Install Ruberoid® SBS Heat-Weld™ smooth over the primed concrete deck, torch applied and fully adhered.

EnergyGuard™ PolyIso Tapered Roof Insulation: Install EnergyGuard™ polyiso tapered roof insulation (4' x 4' maximum) over the Ruberoid® SBS Heat-Weld™ smooth using Olybond 500™ adhesive fastener in accordance with GAF application recommendations.

DensDeck® Prime™: Install 1/4" DensDeck® Prime™ over the polyiso tapered insulation using Olybond 500™ adhesive fastener in accordance with GAF application recommendations.

Ruberoid® SBS Heat-Weld™ Smooth: Install Ruberoid® SBS Heat-Weld™ smooth, torch applied and fully adhered.

Ruberoid® SBS Heat-Weld™ Plus FR: Install Ruberoid® SBS Heat-Weld™ plus FR, torch applied and fully adhered.

If you have any further questions, please contact us at 1-800-766-3411, option 1.

Sincerely,

Jane Lampman

Jane Lampman
GAF Technical Services Specialist



*"Quality You Can Trust Since 1886...From
North America's Largest Roofing
Manufacturer"*

*Technical Services
1 Campus Drive
Parsippany, NJ 07054
Phone: 1-800-766-3411, option 1*

January 23, 2015

Javier Martinez
Infinity Roofing & Sheet Metal, Inc.
1150 SW 10th Avenue Suite 201W
Pompano Beach, FL 33069

Subject: Contractor/System Certification

Project: City of Hollywood, FL
Upper Roof

Dear Mr. Martinez:

Infinity Roofing & Sheet Metal, Inc. of Pompano Beach, FL is a GAF Master Select roofing contractor for asphaltic, single-ply and restoration roofing systems and is eligible to obtain a GAF Diamond Pledge™ (NDL) guarantee for up to 20 years.

GAF specification N-1-2-HGPFR is eligible to receive a 20-year Diamond Pledge™ (NDL) guarantee, provided all current GAF application requirements and guarantee procedures are met.

N-1-2-HGPFR over Lightweight Concrete Deck

GAFGLAS® Stratavent® Eliminator™ Nailable Base Sheet: Mechanically fasten GAFGLAS® Stratavent® Eliminator™ nailable base sheet over the LWC deck using approved Drill-Tec™ base sheet fasteners in accordance with GAF application recommendations.

Ruberoid® SBS Heat-Weld™ Smooth: Install Ruberoid® SBS Heat-Weld™ smooth, torch applied and fully adhered.

Ruberoid® SBS Heat-Weld™ Plus FR: Install Ruberoid® SBS Heat-Weld™ plus FR, torch applied and fully adhered.

If you have any further questions, please contact us at 1-800-766-3411, option 1.

Sincerely,

Jane Lampman

Jane Lampman
GAF Technical Services Specialist

N-1-2-HGPFR City of Hollywood FL Upper Roof Infinity Roofing 012315 jl.doc



*"Quality You Can Trust Since 1886...From
North America's Largest Roofing
Manufacturer"*

*Technical Services
1 Campus Drive
Parsippany, NJ 07054
Phone: 1-800-766-3411, option 1*

January 27, 2015

Javier Martinez
Infinity Roofing & Sheet Metal, Inc.
1150 SW 10th Avenue Suite 201W
Pompano Beach, FL 33069

Subject: Inspection Schedule

Project: City of Hollywood, FL

Dear Mr. Martinez:

In accordance with information provided, this is to confirm that GAF quality control inspections shall be conducted a minimum of 3 times weekly on the above referenced project.

Sales will conduct two visits each in week 1 and week 2 without a report. The GAF field services representative will conduct the balance of the inspections providing an in progress and final report.

If you have any further questions, please contact us at 1-800-766-3411, option 1.

Sincerely,

Jane Lampman

Jane Lampman
GAF Technical Services Specialist



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

5/21/2014

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Frank H. Furman, Inc. 1314 East Atlantic Blvd. P. O. Box 1927 Pompano Beach FL 33061		CONTACT NAME: PHONE (A/C, No, Ext): (954) 943-5050 FAX (A/C, No): (954) 943-5417 E-MAIL ADDRESS:															
INSURED Infinity Roofing And Sheet Metal Inc 1150 S W 10th Ave, Suite #201W Pompano Beach FL 33069-1326		<table border="1"><thead><tr><th>INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr></thead><tbody><tr><td>INSURER A: Indian Harbor Insurance Co</td><td>36940</td></tr><tr><td>INSURER B: Continental Casualty Co</td><td>20508</td></tr><tr><td>INSURER C: American Guarantee & Liability</td><td>26247</td></tr><tr><td>INSURER D: Bridgefield Employers Ins Co</td><td>10701</td></tr><tr><td>INSURER E:</td><td></td></tr><tr><td>INSURER F:</td><td></td></tr></tbody></table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Indian Harbor Insurance Co	36940	INSURER B: Continental Casualty Co	20508	INSURER C: American Guarantee & Liability	26247	INSURER D: Bridgefield Employers Ins Co	10701	INSURER E:		INSURER F:	
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INSURER D: Bridgefield Employers Ins Co	10701																
INSURER E:																	
INSURER F:																	

COVERAGES

CERTIFICATE NUMBER May 2014

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS														
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> XCU & Contractual GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC		ESG300036500	5/25/2014	5/25/2015	<table border="1"><tr><td>EACH OCCURRENCE</td><td>\$ 1,000,000</td></tr><tr><td>DAMAGE TO RENTED PREMISES (Ea occurrence)</td><td>\$ 50,000</td></tr><tr><td>MED EXP (Any one person)</td><td>\$ EXCLUDED</td></tr><tr><td>PERSONAL & ADV INJURY</td><td>\$ 1,000,000</td></tr><tr><td>GENERAL AGGREGATE</td><td>\$ 2,000,000</td></tr><tr><td>PRODUCTS - COMP/OP AGG</td><td>\$ 2,000,000</td></tr><tr><td></td><td>\$</td></tr></table>	EACH OCCURRENCE	\$ 1,000,000	DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 50,000	MED EXP (Any one person)	\$ EXCLUDED	PERSONAL & ADV INJURY	\$ 1,000,000	GENERAL AGGREGATE	\$ 2,000,000	PRODUCTS - COMP/OP AGG	\$ 2,000,000		\$
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PRODUCTS - COMP/OP AGG	\$ 2,000,000																			
	\$																			
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS		2083041073	5/25/2014	5/25/2015	<table border="1"><tr><td>COMBINED SINGLE LIMIT (Ea accident)</td><td>\$ 1,000,000</td></tr><tr><td>BODILY INJURY (Per person)</td><td>\$</td></tr><tr><td>BODILY INJURY (Per accident)</td><td>\$</td></tr><tr><td>PROPERTY DAMAGE (Per accident)</td><td>\$</td></tr><tr><td></td><td>\$</td></tr></table>	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000	BODILY INJURY (Per person)	\$	BODILY INJURY (Per accident)	\$	PROPERTY DAMAGE (Per accident)	\$		\$				
	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000																		
	BODILY INJURY (Per person)	\$																		
	BODILY INJURY (Per accident)	\$																		
PROPERTY DAMAGE (Per accident)	\$																			
	\$																			
C	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 0		UMB IS FOLLOWING FORM OF GL, AUTO AND EPL LIAB AUC967203406	5/25/2014	5/25/2015	<table border="1"><tr><td>EACH OCCURRENCE</td><td>\$ 5,000,000</td></tr><tr><td>AGGREGATE</td><td>\$ 5,000,000</td></tr><tr><td></td><td>\$</td></tr></table>	EACH OCCURRENCE	\$ 5,000,000	AGGREGATE	\$ 5,000,000		\$								
	EACH OCCURRENCE	\$ 5,000,000																		
	AGGREGATE	\$ 5,000,000																		
	\$																			
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y/N <input checked="" type="checkbox"/> N	N/A	0830-38636	1/1/2014	1/1/2015	<table border="1"><tr><td><input checked="" type="checkbox"/> WC STATUTORY LIMITS</td><td><input type="checkbox"/> OTHER</td></tr><tr><td>E.L. EACH ACCIDENT</td><td>\$ 1,000,000</td></tr><tr><td>E.L. DISEASE - EA EMPLOYEE</td><td>\$ 1,000,000</td></tr><tr><td>E.L. DISEASE - POLICY LIMIT</td><td>\$ 1,000,000</td></tr></table>	<input checked="" type="checkbox"/> WC STATUTORY LIMITS	<input type="checkbox"/> OTHER	E.L. EACH ACCIDENT	\$ 1,000,000	E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000	E.L. DISEASE - POLICY LIMIT	\$ 1,000,000						
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E.L. EACH ACCIDENT	\$ 1,000,000																			
E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000																			
E.L. DISEASE - POLICY LIMIT	\$ 1,000,000																			

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

"For Bidding Purposes Only"

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Dirk DeJong/CS



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

MITALA, JOHN B
INFINITY ROOFING AND SHEET METAL INC
11874 ISLAND LAKES LN.
BOCA RATON FL 33498

Congratulations! With this license you become one of the nearly one million Floridians licensed by the Department of Business and Professional Regulation. Our professionals and businesses range from architects to yacht brokers, from boxers to barbeque restaurants, and they keep Florida's economy strong.

Every day we work to improve the way we do business in order to serve you better. For information about our services, please log onto www.myfloridalicense.com. There you can find more information about our divisions and the regulations that impact you, subscribe to department newsletters and learn more about the Department's initiatives.

Our mission at the Department is: License Efficiently, Regulate Fairly. We constantly strive to serve you better so that you can serve your customers. Thank you for doing business in Florida, and congratulations on your new license!



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

CCC057467

ISSUED: 05/26/2014

CERTIFIED ROOFING CONTRACTOR
MITALA, JOHN B
INFINITY ROOFING AND SHEET METAL I

IS CERTIFIED under the provisions of Ch. 489 FS.
Expiration date : AUG 31, 2015 L1405260000966

DETACH HERE

RICK SCOTT, GOVERNOR

KEN LAWSON, SECRETARY

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER

CCC057467

The ROOFING CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2016

MITALA, JOHN B
INFINITY ROOFING AND SHEET METAL INC
1150 SW 10TH AVE
STE 201W
POMPANO BEACH FL 33069



ISSUED: 05/26/2014

DISPLAY AS REQUIRED BY LAW

SEQ # L1405260000966

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000

VALID OCTOBER 1, 2014 THROUGH SEPTEMBER 30, 2015

DBA:
Business Name: INFINITY ROOFING AND SHEET METAL
INC

Receipt #: 185-1498
Business Type: ROOFING/SHEET METAL CONTRACTOR
(ROOFING CONTRACTOR)

Owner Name: JOHN B MITALA / QUAL
Business Location: 1150 SW 10 AVE #201W
POMPANO BEACH
Business Phone: 954-917-7107

Business Opened: 09/05/2006
State/County/Cert/Reg: CCC057467
Exemption Code:

Rooms Seats Employees Machines Professionals
18

For Vending Business Only						
Number of Machines:			Vending Type:			
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
54.00	0.00	0.00	0.00	0.00	0.00	54.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT

WHEN VALIDATED

This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:

INFINITY ROOFING AND SHEET METAL INC
1150 SW 10 AVE #201W
POMPANO BEACH, FL 33069

Receipt #1CP-13-00003313
Paid 07/10/2014 54.00

2014 - 2015

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT