

BID PROPOSAL FORM BID NO. 2015-001

**BID TO: CITY COMMISSION
CITY OF MARGATE**

1. The undersigned bidder proposes and agrees, if this bid is accepted, to enter into an Agreement with the OWNER in the form included in the Contract Documents to perform the WORK as specified or indicated in said Contract Documents entitled:

PUBLIC WORKS ADMINISTRATION BUILDING ROOF PROJECT

2. Bidder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the "Notice Inviting Bids", and "Instructions to Bidders", dealing with the disposition of the bid security.
3. The bid will remain open for the period stated in the "Notice Inviting Bids", unless otherwise required by law. Bidder will enter into an Agreement within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders", and will furnish the insurance certificates, Payment Bond and Performance Bond required by the Contract Documents.
4. Bidder has examined copies of all the Contract Documents including the following addenda (receipt of all of which is acknowledged):

Number 01 Date FEBRUARY 9, 2015

5. Bidder has familiarized itself with the nature and extent of the Contract Documents, WORK, site, locality where the WORK is to be performed, the legal requirements (federal, state and local laws, ordinances, rules and regulations), and the conditions affecting cost, progress or performance of the WORK and has made such independent investigations as bidder deems necessary.
6. This bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation. Bidder has not directly or indirectly induced or solicited any other bidder to submit a false or sham bid. Bidder has not solicited or induced any person, firm or corporation to refrain from bidding and bidder has not sought by collusion to obtain for itself any advantage over any other bidder or over Owner.

To all the foregoing, and including all Bid Schedule(s) and information required of bidder contained in this Bid Form, said bidder further agrees to complete the Work required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment thereof the Contract Price based on the total bid price(s) named in the aforementioned bidding schedule(s).

BID PROPOSAL FORM BID NO. 2015-001

NAME OF FIRM INFINITY ROOFING AND SHEET METAL INC.

ADDRESS: 1150 SW 10TH AVE • POMERANO BEACH, FL.

NAME OF SIGNER JOHN B. MITALA
(Print or Type)

TITLE OF SIGNER PRESIDENT

SIGNATURE:  DATE: FEB 18, 2015

TELEPHONE NO: 954-917-7107 FACSIMILE NO: 954-917-7108

E-MAIL: jmitala@infinityrfg.com.

SCHEDULE OF BID PRICES – BID NO. 2015-001

TO: CITY COMMISSION
CITY OF MARGATE

(Please fill in all blanks and return with your proposal.)

In accordance with your request for proposals and the specifications contained herein, the undersigned proposes the following:

Note: City permit fees shall not be waived and should be included in your bid proposal.

DESCRIPTION	TOTAL COST
TOTAL COST OF ROOF PROJECT	\$ 155,873 ⁰⁰
BID ALTERNATE NO. 1 (IF ANY)	\$ N/A
COST OF INDEMNIFICATION	\$100.00
GRAND TOTAL FOR ALL ITEMS	\$ 155,373 ⁰⁰

ALL BIDS MUST BE SIGNED WITH THE VENDOR NAME AND BY AN OFFICER OR EMPLOYEE HAVING THE AUTHORITY TO BIND THE COMPANY OR FIRM BY SIGNATURE.

MATERIAL SAFETY DATA SHEETS ENCLOSED? YES ☒ NO ☐

SPECIFICATION SHEETS/BROCHURES? YES ☒ NO ☐

WILL YOUR FIRM ACCEPT PAYMENT VIA A CITY OF MARGATE PROCUREMENT CARD? YES ☐ NO ☒

HAVE YOUR INSURANCE REPRESENTATIVE REVIEW THE SAMPLE INSURANCE CERTIFICATE TO ENSURE COMPLIANCE. YES

BIDDER'S GENERAL INFORMATION: BID NO. 2015-001

The bidder shall furnish the following information. Additional sheets shall be attached as required. Failure to complete Item Nos. 1, 3, and 8 will cause the bid to be non-responsive and may cause its rejection. In any event, no award will be made until all of the Bidder's General Information (i.e., items 1 through 9 inclusive) is delivered to the Owner.

- (1) Contractor's name and address:

INFINITI ROOFING AND SHEET METAL INC.
1150 SW 10TH AVE
POMPANO BEACH FL 33069

- (2) Contractor's telephone number: 954-917-7107

- (3) Contractor's license: Primary classification ROOFING

State License Number CLC057467

Supplemental classifications held, if any: N/A

Name of Licensee, if different from (1) above: N/A

- (4) Name of person who inspected site of proposed WORK for your firm:

Name: JOHN MITALA Date of Inspection: FEB 3, 2015

- (5) Name, address, and telephone number of surety company and agent who will provide the required bonds on this contract: AGENT: FURMAN INSURANCE - 1314

E. ATLANTIC BLV. POMPANO BEACH, FL 954-943-5050

SURETY: WESTCHESTER FIRE INSURANCE COMPANY

436 WALNUT STREET, ROUTING WOODBATH, PHILA. PA 19106

- (6) Attach to this bid, the experience resume of the person who will be designated chief construction superintendent or on site construction manager.

- (7) Attach to this bid a financial statement, references, and other information, sufficiently comprehensive to permit an appraisal of Contractor's current financial condition.

(8) List 3 projects completed as of recent date involving work of similar type and complexity:

PROJECT NAME	CONTRACT PRICE	NAME, ADDRESS AND TELEPHONE NUMBER OF OWNER
DELRAY INDUSTRIAL	\$115,900.00	WAREHOUSE MGMT RICK ZDROVICH 411 S. FEDERAL HWY, 561-239-1234
FLORIDA STORES SHOPPING CENTER	\$46,985.00	MIDSWARD PROPERTY JO ANN HOBSON 551 S POWERLINE RD 504-579-3608
FAD-BUILDINGS #5	\$375,935.00	FAD VINCE ELLIOT BOCA RATON 561-956-3365

(9) Subcontractors: The bidder further proposes that as part of their submittal, attached is a list of subcontracting firms or businesses that will be awarded subcontracts for portions of the work in the event the bidder is awarded the Contract:

ALL SOUTH LIGHTNING PROTECTION

813-917-4572

SUN STATE MECHANICAL

954-347-1219

BID NO. 2015-001

REFERENCE SHEET

In order to receive Bid Award consideration on the proposed bid, it is a mandatory requirement that the following "Information Sheet" must be completed and returned with your bid. This information may be used in determining the Bid Award for this contract.

BIDDER (COMPANY NAME): INFINITY ROOFING AND SHEET METAL INC.
ADDRESS: 1150 SW 10TH AVE. POMP. TELEPHONE NO: 954-917-7107
CONTACT PERSON: JOHN B. MITALA TITLE: PRESIDENT
NUMBER OF YEARS IN BUSINESS: 9
ADDRESS OF NEAREST FACILITY: 1150 SW 10TH AVE. POMPANO BEACH, FL

LIST THREE (3) COMPANIES OR GOVERNMENTAL AGENCIES WHERE THESE PRODUCTS AND SERVICES HAVE BEEN PROVIDED IN THE LAST YEAR. (PLEASE SEE ATTACHED)

1. Company Name: _____
Address: _____
Telephone: _____
Contact Person: _____ Title: _____
2. Company Name: _____
Address: _____
Telephone: _____
Contact Person: _____ Title: _____
3. Company Name: _____
Address: _____
Telephone: _____
Contact Person: _____ Title: _____

BID NO: 2015-001



NON-COLLUSIVE AFFIDAVIT FOR BID NO. 2015-001

State of FLORIDA)

County of BROWARD) ss.

JOHN B. MITALA being first duly sworn, deposes
and says that:

He/she is the PRESIDENT, (Owner, Partner, Officer, Representative or Agent) of INFINITY REG., the Offeror that has submitted the attached Proposal;

He/she is fully informed regarding the preparation and contents of the attached Proposal and of all pertinent circumstances regarding such Proposal;

Such Proposal is genuine and is not a collusive or sham Proposal;

Neither the said Offeror nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Offeror, firm, or person to submit a collusive or sham Proposal in connection with the Work for which the attached Proposal has been submitted; or to refrain from bidding in connection with such Work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Offeror, firm, or person to fix the price or prices in the attached Proposal or of any other Offeror, or to fix any overhead, profit, or cost elements of the Proposal price or the Proposal price of any other Offeror, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Work;

The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Offeror or any other of its agents, representatives, owners, employees or parties in interest, including this affiant.

Signed, sealed and delivered in the presence of:

Witness

Witness

By

Printed Name

Title

ACKNOWLEDGMENT
NON-COLLUSIVE AFFIDAVIT FOR BID NO. 2015-001

State of Florida

County of BROWARD

On this the 19 day of FEBRUARY, 2015, before me, the undersigned Notary Public of the State of Florida, personally appeared

JOHN MITALA and
(Name(s) of individual(s) who appeared before notary)

whose name(s) is/are Subscribed to within the instrument, and he/she/they acknowledge that he/she/they executed it.

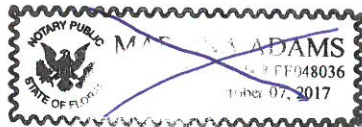
WITNESS my hand
and official seal.

NOTARY PUBLIC
SEAL OF OFFICE:



[Signature]
NOTARY PUBLIC, STATE OF FLORIDA

MARTINA ADAMS
(Name of Notary Public: Print,
Stamp, or Type as Commissioned)



☒ Personally known to me, or
☐ Produced identification:

(Type of Identification Produced)

☐ DID take an oath, or ☐ DID NOT take an oath

DRUG-FREE WORKPLACE PROGRAM FORM

In accordance with Section 287.087, State of Florida Statutes, preference shall be given to businesses with Drug-free Workplace Programs. Whenever two or more bids which are equal with respect to price, quality and service are received for the procurement of commodities or contractual service, a bid received from a business that certifies that it has implemented a Drug-free Workplace Program shall be given preference in the award process. In the event that none of the tied vendors have a Drug-free Workplace program in effect the City reserves the right to make final Decisions in the City's best interest. In order to have a Drug-free Workplace Program, a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.
2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.
3. Give each employee engaged in providing the commodities or contractual services that are under bid a copy of the statement specified in subsection (1).
4. In the statement specified in subsection (1), notify employees that, as a condition of working on the commodities or contractual services that are under bid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of Chapter 893 or of any controlled substance law of the United States or any State, for a violation occurring in the workplace no later than five (5) days after such conviction.
5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community by any employee who is convicted.
6. Make a good faith effort to continue to maintain a drug-free workplace through implementation.

If bidder's company has a Drug-free Workplace Program, so certify below:

AS THE PERSON AUTHORIZED TO SIGN THE STATEMENT, I CERTIFY THAT THIS FIRM COMPLIES FULLY WITH THE ABOVE REQUIREMENTS.

SIGNATURE OF BIDDER: 

DATE: 2-18-2015

BID NO: 2015-001

COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT

Bidder certifies that all material, equipment, etc. contained in this bid meets all O.S.H.A. requirements. Bidder further certifies that if he/she is the successful bidder, and the material, equipment, etc., delivered is subsequently found to be deficient in any O.S.H.A. requirement in effect on date of delivery, all costs necessary to bring the material, equipment, etc. into compliance with the aforementioned requirements shall be borne by the bidder.

OCCUPATIONAL HEALTH AND SAFETY MATERIAL SAFETY DATA SHEET REQUIRED:

In compliance with Chapter 442, Florida Statutes, any item delivered from a contract resulting from this bid must be accompanied by a MATERIAL SAFETY DATA SHEET (MSDS). The MSDS must include the following information:

- A. The chemical name and the common name of the toxic substance.
- B. The hazards or other risks in the use of the toxic substances, including:
 - 1. The potential for fire, explosion, corrosivity and reactivity
 - 2. The known acute and chronic health effects of risks from exposure, including the medical conditions which are generally recognized as being aggravated by exposure to the toxic substance; and
 - 3. The primary routes of entry and symptoms of overexposure.
- C. The proper precautions, handling practices, necessary personal protective equipment, and other safety precautions in the use of or exposure to the toxic substances, including appropriate emergency treatment in case of overexposure.
- D. The emergency procedure for spills, fire, disposal and first aid.
- E. A description in lay terms of the known specific potential health risks posed by the toxic substances intended to alert any person reading this information.
- F. The year and month, if available, that the information was compiled and the name, address and emergency telephone number of the manufacturer responsible for preparing the information.

BID NO: 2015-001

BID BOND

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 City of Margate, hereinafter called "City" in the sum of (\$ 5% OF THE BID AMOUNT) dollars, (not less than 5 percent of the total amount of the bid) for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS, said Principal has submitted a bid to said City to perform the Work required under the bidding schedule of the City's Contract Documents entitled:

PUBLIC WORKS ADMINISTRATION BUILDING ROOF PROJECT

NOW THEREFORE, if said Principal is awarded a contract by said City and, within the time and in the manner required in the "Notice Inviting Bids" and the "Instructions to Bidders" enters into a written Agreement on the form of the agreement bound with said Contract Documents, furnishes the required certificates of insurance, and furnishes the required Performance Bond, then this obligation shall be null and void, otherwise it shall remain in full force and effect. In the event suit is brought upon this bond by said City and City prevails, said Surety shall pay all costs incurred by said City in such suit, including a reasonable attorney's fee to be fixed by the court.

SIGNED AND SEALED, this 16TH day of FEBRUARY, 2015.

INFINITY ROOFING AND SHEET METAL INC

WESTCHESTER FIRE INSURANCE COMPANY

(Principal)

(Surety)

By: [Signature]

By: [Signature]

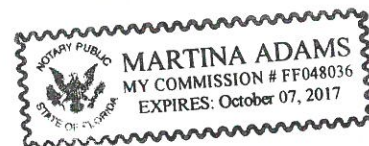
(SIGNATURE)

(SIGNATURE)

STATE OF FLORIDA, COUNTY OF BROWARD: BEFORE ME PERSONALLY APPEARED THE ABOVE TO ME WELL KNOWN AND KNOWN TO ME TO BE THE PERSONS DESCRIBED IN AND WHO EXECUTED THE FOREGOING INSTRUMENT, AND ACKNOWLEDGED TO AND BEFORE ME THAT THEY EXECUTED SAID INSTRUMENT FOR THE PURPOSES THEREIN EXPRESSED.

WITNESS MY HAND AND OFFICIAL SEAL, THIS 16 DAY OF FEBRUARY, 2015

NOTARY PUBLIC: [Signature]



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.

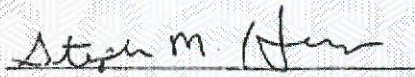
FURTHER RESOLVED, that the foregoing Resolution shall not be deemed to be an exclusive statement of the powers and authority of officers, employees and other persons to act for and on behalf of the Company, and such Resolution shall not limit or otherwise affect the exercise of any such power or authority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

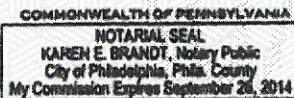



Stephen M. Haney, Vice President

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.

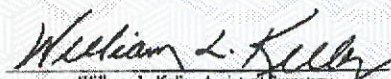



Notary Public

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 10th day of February 2015




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.

HECTOR MENDEZ

22581 Middletown Dr
Boca Raton, FL 33428

EMPLOYMENT HISTORY

2006-	Infinity Roofing & Sheet Metal - Pompano Beach, FL <i>Vice President</i>
1998-2006	Certified Roofing - Pompano Beach, FL <i>Supervisor</i>
1992-1998	Simon Roofing - Tampa FL. <i>Roofing Forman</i>
1985-1992	Dotch Roofing - California <i>Journeymen Roofing</i>

WORK EXPERIENCE

Manage all aspects for Commercial & Residential Roof Repair and Total Re-Roof Projects

- Scheduling of Work Force
- Field Supervision
- Safety Officer
- Quality Control
- Project Management

EDUCATION

High School Uruqpan, Mexico



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

12/9/2014

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 F:																	

COVERAGES

CERTIFICATE NUMBER: JAN 2015

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"/> PRO-JECT <input type="checkbox"/> LOC	X	ESG300036500	5/25/2014	5/25/2015	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
	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS		2083041073	5/25/2014	5/25/2015	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTIONS \$ 0		UMB IS FOLLOWING FORM OF GL, AUTO AND EPL LIAB AUC967203406	5/25/2014	5/25/2015	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000
	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 N	N/A	0830-38636	1/1/2015	1/1/2016	<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

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

City of Margate is an Additional Insured for General Liability as required by written contract.

CERTIFICATE HOLDER**CANCELLATION**

jberen@margatefl.com

City of Margate
Purchasing Department
5790 Margate Blvd.
Margate, FL 33063

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, 2016 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

Drill-Tec™ CR 1.2 Base Sheet Fastener With Plate

Data Sheet

Updated: 1/10



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



DRILL-TEC™

CR 1.2 BASE SHEET FASTENER WITH PLATE

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

Description

The Drill-Tec™ CR 1.2 Base Sheet Fastener With Plate is precision formed from G-90 galvanized steel coated with CR-10 assembled to 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 1.25" thickness of poured lightweight insulating concrete or various gypsums. The Drill-Tec™ CR 1.2 Base Sheet Fastener With Plate is Factory Mutual and Dade County approved.

Application

The Drill-Tec™ CR 1.2 Base Sheet Fastener will be embedded into a minimum of 1.25" of poured lightweight insulating concrete or various gypsums. Lightweight insulating concrete or gypsum must be surface dry and reasonably 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.

Drill-Tec™ CR 1.2 Base Sheet Fastener With Plate is FM approved with certain base sheet and insulated concrete combinations.

Note: On reroofing applications, prior to job start, verify pattern for specific deck type and roof cover; and test or inspect the roof deck to determine the pull-out values.

Code Approvals



Advantages

- The Drill-Tec™ CR 1.2 Base Sheet Fastener With Plate is FM and Dade County approved.
- Drill-Tec™ CR 1.2 Base Sheet Fastener With Plate exceeds FM Class I-90 Wind Uplift requirements when installed in accordance with I-90 nailing pattern.
- Assembled Drill-Tec™ CR 1.2 Base Sheet Fastener With Plate greatly reduces installation time and labor cost.
- Entire fastener is CR-10 coated to prevent in-place corrosion.

Plates & Accessories

- CR 1.2 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 1.2 Base Sheet Fastener with a head size of 1.125" and a leg length of 1.2". For high-wind applications, the fastener must be assembled 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. The fastener must meet Factory Mutual Approval Standard 4470. The plate must be Galvalume® and also meet Factory Mutual Approval Standard 4470.

FM Approved CR 1.2 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 for up-to-date information on approved fastening patterns.

Product Data

Base Sheet Fastener:

Head Size	1.125" x 1"
Leg Length	1.2"
Material	G-90 galvanized with CR-10 coating
Material Thickness	.014 nominal

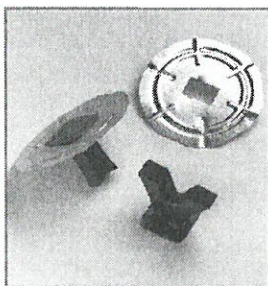
Plate:

Diameter	2.75"
Material	Galvalume®
Material Thickness	.014 nominal
Packaging Assembled	1000 per carton
Shipping Weight	37 lbs.

Catalog Number:

CR 1.2 Base Sheet Fastener With Plate	459U
---------------------------------------	------

Drill-Tec™ CR 1.2 Base Sheet Fastener With Plate



GAFGLAS®
Stratavent® Eliminator™
Nailable Base Sheet

Data Sheet

Updated: 1/10



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



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

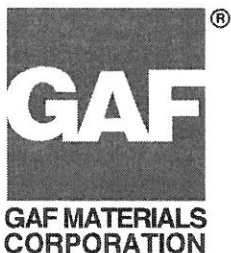
Products Specifications (nominal)

Roll Size	1.26 squares (133.4 gross sq.ft.) (12.4m²)
Roll Length	40.6' (9.9m)
Roll Width	39.375" (1.0m)
Approx. Roll Weight	73 lbs (33.1kg)

Ruberoid® EnergyCap™

Sell Sheet

Updated: 11/06



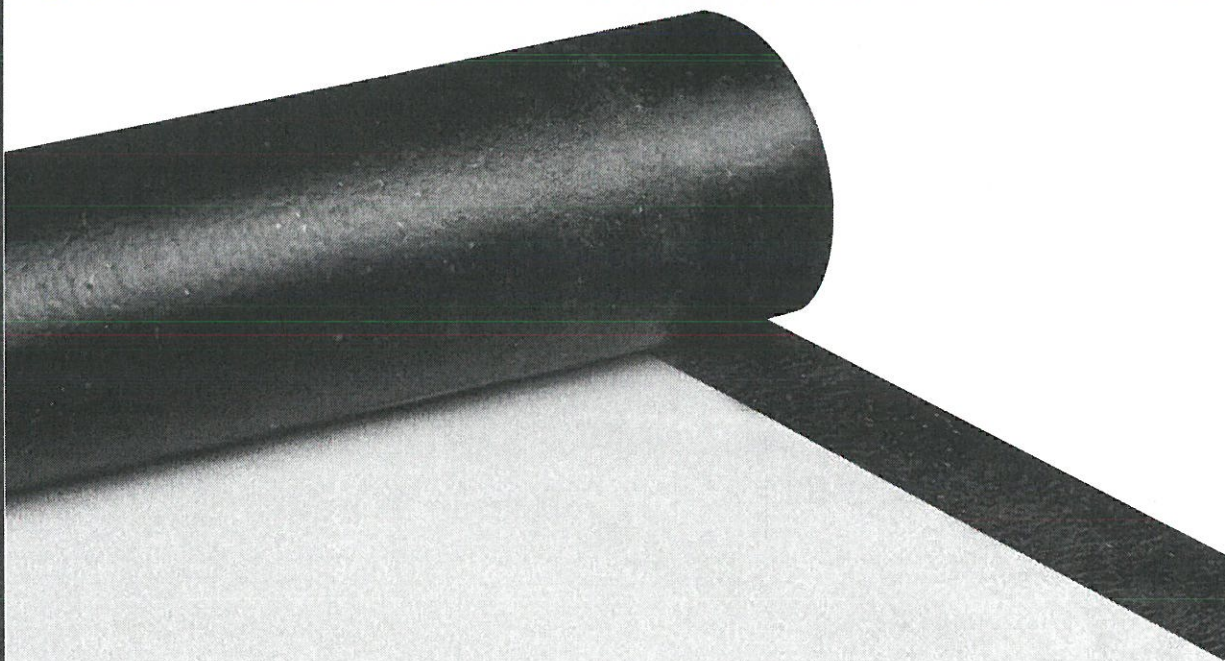
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GAF

GAF MATERIALS
CORPORATION

EnergyCAP
ENERGY-SAVING CAP SHEETS

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



**"The safety of multi-ply
roofing systems...with
Energy Star® Savings!"**



LEARN MORE AT
energystar.gov

"Now, Get The Safety Of RUBEROID® MB And GAFGLAS® BUR Multi-ply Roofing Systems With ENERGY STAR® Savings"



Think Green... Save Energy

Energy costs are skyrocketing...

and demand is at an all-time high. Wasting energy is not just irresponsible—it's bad business!

Until now, property owners who wanted an energy-saving roof were limited to:

- Installing a single-ply (TPO or PVC) roof *or...*
- Adding a roof coating to their asphaltic system, often at considerable additional expense.

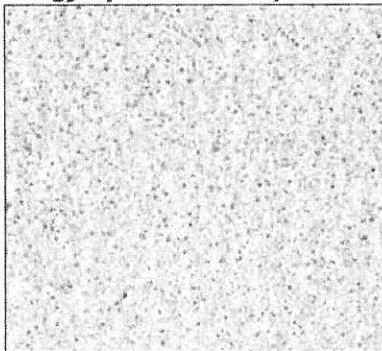
But now, there's EnergyCap™ brilliant white cap sheets!

They combine the proven performance of GAF's commercial asphaltic cap sheets with a factory-applied layer of TOPCOAT® EnergyCote™ roof coating—in a single roof membrane.

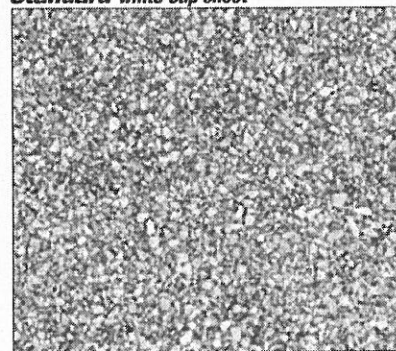
Multi-ply systems using EnergyCap™ cap sheets are the safer solution for meeting ENERGY STAR® or Title 24 requirements—and are less expensive to install than other "white" roofing options.

EnergyCap™ "brilliant white" cap sheets have nearly 3 times the reflectivity of standard "white" cap sheets!

EnergyCap™ brilliant white cap sheet



Standard white cap sheet



EnergyCap™ Systems are Up To 45% Less Costly To Install Than Other ENERGY STAR® Qualified Roofing Systems...

Typical Installed Cost

New SBS system with
post-applied white coating

New BUR system with
post-applied white coating

New EnergyCap™ SBS system

New, white TPO system

New EnergyCap™ BUR system

EnergyCap™ systems are typically less expensive to install than other ENERGY STAR® qualified roofing solutions such as PVC or TPO... and you get the proven safety and reliability of multi-ply roofing!

* Installed cost estimates are based on 1,000 square systems in California. Modified bitumen and BUR systems include insulation, 2 plies of GAFGLAS® Ply 4 ply sheets, and cap sheet (as compared to same systems with Topcoat® MB Plus coating applied post-membrane application). TPO mechanically-attached insulated systems were compared to EnergyCap™ BUR.

"EnergyCap™ Systems Reduce Your Ongoing Energy Costs, Year After Year..."

Total Estimated Energy Savings Of A 500 Square EnergyCap™ Roof Over 15 Years*

(Based On Data From Oak Ridge National Laboratory, U.S. Dept. Of Energy)



EnergyCap™ brilliant-white cap sheets exceed the minimum reflectivity requirements for ENERGY STAR®—as well as the reflectivity and emissivity of Title 24—to save you money (visit www.gaf.com and calculate how much *you* can save!).

* Energy savings estimates are based on energy and fuel cost data provided by ORNL web site at the time of print and does not take into consideration energy cost fluctuations over time. Assumptions used in the savings calculations include: R-value of 19.0; infrared emittance of 84%; COP of 2; solar reflectance of 80%; average heating system efficiency. The results are examples—type of building, geographical locations, your exact energy/fuel costs as well as other factors must be considered for your specific situation.

"EnergyCap™ Systems Save Labor And Reduce Installation Hassles For Property Owners!"

Saves Labor!

- **Pre-Applied Brilliant White Coating...**
Premium TOPCOAT® EnergyCote™ white elastomeric coating saves time and labor (compared to applying the coating **after** the membrane has been installed).
- **Reduces Labor Cost...**
by over 25% when compared to site-applied coatings.

Reduces Installation Hassles For Property Owners!

- **NO 90-Day Waiting Period...** to complete the project.
- **NO Worries...** about damage caused by coating overspray.
- **NO Need...** for multiple coats.
- **NO Staging...** of solvent-based coatings.
- **NO Long Wait...** for water-based coatings to dry.
- **NO Need...** to worry about proper coating thickness.

Contractor Friendly!

- **Accurate Installation, Less Waste...** Factory-installed coating eliminates the need to measure and gauge coating application.
- **Fewer Return Trips...** If touch-up is needed TOPCOAT® EnergyCote™ coating can be applied immediately.
- **No Additional Staging Of Materials...** after roof is installed.
- **Versatile...** Available in BUR for hot-mopped applications; SBS for hot-mopped, cold-applied, or heat-welded applications; or APP for torch applications.
- **No Waiting...** Roof top maintenance traffic can begin immediately after EnergyCap™ membrane is installed.
- **Less Clean Up...** No tracking of wet coating over the membrane or property.



EnergyCAP™
ENERGY-SAVING CAP SHEETS

"EnergyCap™ ...The Green Roof That's White"

Now With Five Great Choices! Product Specifications (nom.)

1- EnergyCap™ BUR

Roll length 32.6 ft (9.9 m)
Roll width 39.375 in (1.0 m)
Roll size 1 sq. (106.9 gross ft² or 9.9 m²)
Meets ASTM D3909, ASTM E903, ASTM E408,
ASTM C1549
Reflectivity: 80% Emissivity: 0.90 SRI: 100

2- EnergyCap™ SBS 30 FR (glass mat):

Roll length 34.4 ft (10.5 m)
Roll width 39.375 in (1.0 m)
Roll size 1 sq. (113.9 gross ft² or 10.58 m²)
Meets ASTM D6163, Type 1, Grade G, ASTM E903,
ASTM E408, ASTM C1549
Reflectivity: 80% Emissivity: 0.84 SRI: 99

3- EnergyCap™ Torch Plus FR (polyester mat):

Roll length 32.4 ft (10.3 m)
Roll width 39.5 in (1.0 m)
Roll size 1 sq. (106.7 gross ft² or 9.9 m²)
Meets ASTM D6222, Type 2, Grade G, ASTM E903,
ASTM E408, ASTM C1549
Reflectivity: 80% Emissivity: 0.84 SRI: 99

4- EnergyCap™ Torch Granule FR (polyester mat):

Roll length 32.4 ft (9.9 m)
Roll width 39.625 in (1.0 m)
Roll size 1 sq. (106.9 gross ft² or 9.9 m²)
Meets ASTM D6222, Type 1, Grade G, ASTM E903,
ASTM E408, ASTM C1549
Reflectivity: 84% Emissivity: 0.81 SRI: 104

5- EnergyCap™ SBS Heat-Weld™ Plus FR (polyester mat):

Roll length 32.75 ft (9.98 m)
Roll width 39.625 in (1.0 m)
Roll size 1 sq. (108.1 gross ft² or 10.04 m²)
Meets ASTM D6164, Type 1 & 2 Grade G, ASTM E903,
ASTM E408, ASTM C1549
Reflectivity: 75% Emissivity: 0.82 SRI: 91

Applicable Standards

- UL Approved for use in the construction of Class A, B, or C roofs
- FM Approved
- Approved for use in LEED® certified projects
- Title 24 compliant
- ENERGY STAR® Compliant

An Important Note about LEED and Emissivity Values...

Different test methods may yield different value results. In accordance with LEED® required testing methods, EnergyCap™ 30 FR and Torch Granule Plus FR achieved an emissivity value of .90 when tested to ASTM E408. The above results were reported to CRRC and were tested in accordance with ASTM C1549. The emittance and reflectance values published are those required for Title 24 compliance.

For additional information on this or any other technical matter please call Technical Services at 1-800-766-3411.

Note: Initial reflectivity value may be reduced over time as a natural consequence of aging.



For complete, up-to-date specifications and information, visit www.gaf.com

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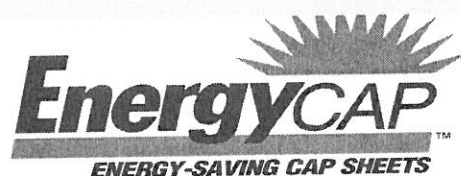
East Sales Office:
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(630) 295-1980

Southeast Sales Office:
(813) 829-8857

Southwest Sales Office:
(972) 851-0500

West Sales Office:
(951) 360-4200



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Contractor Services 800.ROOF.411 (800.766.3411) COMES100

85535-1205



RUBEROID®

SBS HEAT-WELD™ SMOOTH

Description

RUBEROID® SBS HEAT-WELD™ SMOOTH membrane is a tough, resilient modified bitumen membrane manufactured to stringent GAF Materials Corporation specifications. Its core is a strong, resilient, non-woven polyester mat that is coated with flexible, polymer-modified asphalt and is smooth surfaced. Smooth surfaced SBS HEAT-WELD installations must be protected with surfacing.

Uses

RUBEROID SBS HEAT-WELD SMOOTH is designed for new roofing and recovering applications as well as the construction of flashings. RUBEROID SBS HEAT-WELD SMOOTH 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.
- Cost effective—the installed cost is less than most single-ply systems on the market today.
- Light weight—installed roof designs weigh less than 2 pounds per square foot.

Advantages (Continued)

- Durable—specially formulated modified asphalt gives lasting performance.
- Resilient polyester mat core allows it to resist splits and tears due to its pliability and elongation characteristics.
- RUBEROID SBS HEAT-WELD SMOOTH membrane is backed by GAF Materials Corporation, a company with over 100 years in the roofing business.

Applicable Standards

Meets ASTM D6164, Type I, Grade S
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.) (10.0m²)
Roll Length	32.6' (9.9m)
Roll Width	39.625" (1006.5mm)
Approx. Roll Weight	104 lbs (47.2kg)
Product Thickness	0.165" (4.2mm)



This product meets or exceeds the following ASTM D6164, Type I, Grade S, minimum requirements:

Property	Test Method	Value
Tensile Strength @ 0°F (min), lbf/in	ASTM D5147	70
Elongation @ 0°F (min), %	ASTM D5147	20
Low Temperature Flexibility (max), °F	ASTM D5147	0
Tear Strength (min), lbf	ASTM D5147	55
Dimensional Stability, (max)%	ASTM D5147	1



GAF
Material Safety Data Sheet
MSDS # 1005
MSDS Date: February 2012

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: GAFGLAS® Mineral Surfaced Cap Sheet, GAFGLAS® Stratavent Eliminator Nailable Base Sheet, GAFGLAS® Stratavent Eliminator Perforated Base Sheet, Mineral Guard – Metic, Rain Cap

TRADE NAME: Roll Roofing

CHEMICAL NAME / SYNONYM: N/A

CHEMICAL FAMILY: N/A

MANUFACTURER: GAF

ADDRESS: 1361 Alps Road, Wayne, NJ 07470

24-HOUR EMERGENCY PHONE (CHEMTREC): 800 – 424 – 9300

INFORMATION ONLY: 800 – 766 – 3411

PREPARED BY: Corporate EHS

APPROVED BY: Corporate EHS

NFPA Hazard Rating		HMIS Hazard Rating	
Health	1	Health	1
Flammable	1	Flammable	1
Reactive	0	Reactive	0
Special Hazards	-	Personal Protection	X
OSHA HAZARDOUS:	Yes	No	X

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% (BY WT)	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Granules	-	40-50	NE	NE	NE

Oxidized Asphalt	64742-93-4	~20	NE	0.5 mg/m3 (inhalable fraction, as benzene-soluble aerosol)	5 mg/m3 – ceiling (15 min. fumes)
Limestone	1317-65-3	~20	5 mg/m3 resp. 15 mg/m3 total	3 mg/m3 resp. 10 mg/m3 total	REL: 5 mg/m3 resp. 15 mg/m3 total
Titanium Dioxide	13463-67-7	0 – 4	15 mg/m3 total	10 mg/m3 total	
Fiberglass Mat	65997-17-3	1-3	1 f/cc – resp.	1 f/cc – resp.	REL: 5 mg/m3 – total fibers
Silica, Crystalline Quartz	14808-60-7	~1	10 mg/m3 / (% SiO ₂ + 2) – resp.	0.025 mg/m3	REL: 0.05 mg/m3 – resp.

NE = Not Established

As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products above are considered articles and do not require an MSDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard, GAF would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling and use of these products should be included in worker training programs.

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE OF EXPOSURE: Occasional nuisance dust, Inhalation

SIGNS & SYMPTOMS OF EXPOSURE

EYES: May cause irritation to the eyes.

SKIN: May cause irritation to the skin.

INGESTION: This product is not intended to be ingested. If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.

INHALATION: May cause irritation to the respiratory tract.

ACUTE HEALTH HAZARDS: NIOSH has found that studies of workers exposed to asphalt fumes have repeatedly found irritation of the serous membranes of

the conjunctivae (eye irritation) and the mucous membranes of the upper respiratory tract (nasal and throat irritation).

CHRONIC HEALTH HAZARDS:

Studies in humans have found that exposure to respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis is a serious and irreversible disease; it may be progressive even after exposure has ceased; it can lead to disability and death. Human studies also have found that silicosis is a risk factor for tuberculosis, and that occupational exposure to respirable crystalline silica is associated with chronic obstructive pulmonary disease, including bronchitis and emphysema. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica.

CARCINOGENICITY:

IARC has determined that occupational exposure to oxidized asphalt and its emissions is probably carcinogenic to humans (Group 2A). IARC concluded that available data from cancer studies in humans points to an association between exposures to oxidized asphalts during roofing and lung cancer and tumors in the upper aero-digestive tract. In addition, IARC found sufficient evidence of carcinogenicity in experimental animals for extracts and fume condensates of oxidized asphalts.

NIOSH has concluded that the collective data from human, animal, genotoxicity and exposure studies provide sufficient evidence that roofing asphalt fumes are a potential occupational carcinogen.

Occupational exposure to respirable crystalline silica is classified as a known carcinogen in humans. IARC has determined that respirable crystalline silica is carcinogenic to humans (Group 1), based on findings of sufficient evidence of carcinogenicity in both humans and experimental animals. NTP has classified respirable crystalline silica as a known human carcinogen based on sufficient evidence of carcinogenicity from studies in humans indicating a causal relationship between occupational exposure to respirable crystalline silica and increased lung cancer rates. NIOSH has determined that respirable crystalline silica is a potential occupational carcinogen.

IARC has determined that occupational exposure to Titanium Dioxide is possibly carcinogenic to humans (Group 2B). IARC concluded lung tumors were observed in rats following high dose exposure by inhalation and in female rats exposed by intra-tracheal instillation. Other studies have shown no tumors in rats following inhalation exposure and no tumors in mice or rats following oral exposure.

SECTION 4: FIRST AID MEASURES

FIRST AID PROCEDURES**EYES:**

Hold eyelids open and wash with gentle stream of water for at least 15 minutes preferably at eyewash fountain.

SKIN:	If contacted by hot asphalt. Cool with ice or water. Do not attempt to remove asphalt immediately. Consult medical personnel.
INHALATION:	Remove to fresh uncontaminated air.
INGESTION:	Not expected to be ingested.
NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:	Water-Jel has been shown to be an effective agent in softening and removing asphalt.

SECTION 5: FIRE FIGHTING PROCEDURES

SUITABLE EXTINGUISHING MEDIA:	Water spray, Alcohol foam, Carbon Dioxide, or Dry chemical.
HAZARDOUS COMBUSTION PRODUCTS:	Carbon dioxide and carbon monoxide.
RECOMMENDED FIRE FIGHTING PROCEDURES:	NIOSH-approved self contained breathing apparatus is recommended for smoke protection.
UNUSUAL FIRE & EXPLOSION HAZARDS:	N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Pick up large pieces. Avoid creating dusts during clean up.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:	Hot asphalt is used to apply many of these products; appropriate personal protective equipment should be worn handling this material.
OTHER PRECAUTIONS:	Avoid breathing the fumes from hot asphalt.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION:	N/A
RESPIRATORY PROTECTION:	N/A under normal use conditions. In circumstances where dust or fumes are generated and may exceed recognized allowable exposure levels, appropriate NIOSH approved respiratory

protection is recommended.

EYE PROTECTION:

Safety glasses with side shields

SKIN PROTECTION:

Cotton or leather gloves are recommended when handling.

OTHER PROTECTIVE EQUIPMENT:

None

WORK HYGIENIC PRACTICES:

Wash exposed skin prior to eating, drinking or smoking and at the end of each shift.

EXPOSURE GUIDELINES:

These products should be handled using methods and techniques that minimize or eliminate dust or fume generation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Thin black sheet in roll form, may be surfaced with granules, talc, sand or film. Slight asphalt odor.		
FLASH POINT:	>500° F	LOWER EXPLOSIVE LIMIT:	No Data
METHOD USED:	COC	UPPER EXPLOSIVE LIMIT:	No Data
EVAPORATION RATE:	No Data	BOILING POINT:	No Data
pH (undiluted product):	No Data	MELTING POINT:	No Data
SOLUBILITY IN WATER:	No Data	SPECIFIC GRAVITY:	No Data
VAPOR DENSITY:	No Data	PERCENT VOLATILE:	No Data
VAPOR PRESSURE:	No Data	MOLECULAR WEIGHT:	No Data
VOC WITH WATER (LBS/GAL):	No Data	WITHOUT WATER (LBS/GAL):	No Data

SECTION 10: STABILITY AND REACTIVITY**THERMAL STABILITY:**

STABLE ☒ X

UNSTABLE ☐

CONDITIONS TO AVOID (STABILITY):

None known.

INCOMPATIBILITY (MATERIAL TO AVOID):

None known.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

None known.

HAZARDOUS POLYMERIZATION:

Will Not Occur

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: None available for the product. See section 3.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal.

RCRA HAZARD CLASS: None

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT: N/A

OTHER: N/A

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA: This product and its components are listed on the TSCA 8(b) inventory.

CERCLA: None

SARA

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: None

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Oxidized Asphalt	64742-93-4	No	No	No	No	No	No
Crystalline Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	No	Yes	Yes	Yes	Yes	Yes
Limestone	1317-65-3	No	Yes	Yes	No	Yes	Yes
Fiberglass Mat	65997-17-3	Yes	No	Yes	Yes	No	Yes

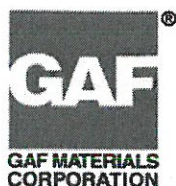
SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS MSDS: October 2009

CHANGES SINCE PREVIOUS MSDS: Added additional IARC information.

This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.



GAF Materials Corporation
Material Safety Data Sheet
MSDS # 1006
MSDS Date: December 2008

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: RUBEROID® TORCH (SMOOTH), RUBEROID® TORCH (GRANULE), RUBEROID® TORCH FR (GRANULE), RUBEROID® TORCH PLUS (GRANULE), RUBEROID® MOP (SMOOTH), RUBEROID® MOP (GRANULE), RUBEROID® MOP FR (SMOOTH (NLM), RUBEROID® MOP FR (GRANULE), RUBEROID® MOP PLUS (GRANULE), RUBEROID® 20, RUBEROID® 30, RUBEROID® 30FR, RUBEROID® MODIFIED BASE SHEET, RUBEROID® SBS FOIL-FACED MEMBRANE (formerly known as RUBEROID®ULTRACLAD SBS), RUBEROID® MODIFIED CAP SHEET 601, RUBEROID® SBS HW™, RUBEROID® SBS HW™ 25, RUBEROID® SBS HW™ FR, RUBEROID® SBS HW™ PLUS, RUBEROID® SBS HW™ PLUS FR, RUBEROID® SBS HW™ SMOOTH, RUBEROID® SBS HW™ BASE, RUBEROID® FLASHING 10", RUBEROID® SBS™ DUAL FR, TILE-MATE™ MODIFIED BASE SHEET, TILE-MATE™ MODIFIED CAP, RUBEROID® FLAMEFREE™ 160FR, RUBEROID® FLAMEFREE™ 180FR, TILE-MATE™ MODIFIED CAP PLUS, LIBERTY™ NAILABLE BASE SHEET, APP 900™, RUBEROID® TORCH 180

TRADE NAME: Roll Roofing

CHEMICAL NAME / SYNONYM:

CHEMICAL FAMILY: Mixture

MANUFACTURER: GAF Materials Corporation

ADDRESS: 1361 Alps Road, Wayne, NJ 07470

24-HOUR EMERGENCY PHONE (CHEMTREC): 800 – 424 – 9300

INFORMATION ONLY: 800 – 766 – 3411

PREPARED BY: Corporate EHS

APPROVED BY: Corporate EHS

NFPA Hazard Rating

Health
Flammable
Reactive
Special Hazards

1
1
0
-

HMIS Hazard Rating

Health
Flammable
Reactive
Personal Protection

1
1
0
X

OSHA HAZARDOUS:

Yes X

No ☐**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

CHEMICAL NAME	CAS #	% (BY WT)	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Asphalt	8052-42-4	40 -60	NE	0.5 mg/m ³ (fume)	5 mg/m ³ – Ceiling (15 min. fumes)
Silica, Crystalline Quartz	14808-60-7	3-5	10 mg/m ³ / (% SiO ₂ + 2) – resp.	0.025 mg/m ³	REL: 0.05 mg/m ³ – resp.
Talc	14807-96-6	1*	20 mppcf (containing <1% Quartz)	2 mg/m ³	REL: 2 mg/m ³ – resp.

NE = Not Established

SECTION 3: HAZARDS IDENTIFICATION

PRIMARY ROUTE OF EXPOSURE: Inhalation

SIGNS & SYMPTOMS OF EXPOSURE

EYES: Irritation from dust or particulate.

SKIN: Burns from molten asphalt.

INGESTION: Not an expected route of exposure.

INHALATION: See below

ACUTE HEALTH HAZARDS: Nasal irritation of the mucus membranes.

CHRONIC HEALTH HAZARDS: Silica: shortness of breath on exertion, dry cough
Talc: Cough pneumoconiosis.

CARCINOGENICITY: Silica-IARC

SECTION 4: FIRST AID MEASURES**FIRST AID PROCEDURES**

EYES: Flush with flowing water for 15 minutes-Seek medical attention.

SKIN:	Cool with ice or water; do not attempt immediate removal of asphalt. Cover with wet cloth and seek medical attention.
INHALATION:	Move to fresh air, provide oxygen if breathing is difficult, and seek medical attention.
INGESTION:	Seek medical attention.
NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:	Water-Jel has been shown to be an effective agent in softening and removing asphalt.

SECTION 5: FIRE FIGHTING PROCEDURES

SUITABLE EXTINGUISHING MEDIA:	Foam, Dry chemical, Carbon Dioxide, Water
HAZARDOUS COMBUSTION PRODUCTS:	Carbon Monoxide , Carbon Dioxide, Acrolein, Acids, Ketones, Aldehydes, Hydrogen Sulfide
RECOMMENDED FIRE FIGHTING PROCEDURES:	Wear full protective gear and self-contained breathing apparatus
UNUSUAL FIRE & EXPLOSION HAZARDS:	None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:	Pick up pieces and dispose of appropriately. Vacuum or sweep dusts, use a dust suppressant if sweeping is necessary.
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SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:	Hot asphalt is used to apply many of these products; appropriate personal protective equipment should be worn handling this material.
OTHER PRECAUTIONS:	Avoid breathing the fumes from hot asphalt.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION:	N/A
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RESPIRATORY PROTECTION: N/A

EYE PROTECTION: Safety glasses with side shields or goggles.
When handling molten asphalt, a faceshield should be added.

SKIN PROTECTION: Gloves and long sleeved shirts and long pants.

OTHER PROTECTIVE EQUIPMENT: Sturdy work shoes.

WORK HYGIENIC PRACTICES: Wash hands after using these products.

EXPOSURE GUIDELINES: N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Thin black sheet in roll form, may be surfaced with granules, talc, sand or film. Slight asphalt odor.		
FLASH POINT:	>500° F	LOWER EXPLOSIVE LIMIT:	No Data
METHOD USED:	COC	UPPER EXPLOSIVE LIMIT:	No Data
EVAPORATION RATE:	No Data	BOILING POINT:	No Data
pH (undiluted product):	No Data	MELTING POINT:	No Data
SOLUBILITY IN WATER:	No Data	SPECIFIC GRAVITY:	No Data
VAPOR DENSITY:	No Data	PERCENT VOLATILE:	No Data
VAPOR PRESSURE:	No Data	MOLECULAR WEIGHT:	No Data
VOC WITH WATER (LBS/GAL):	No Data	WITHOUT WATER (LBS/GAL):	No Data

SECTION 10: STABILITY AND REACTIVITY

THERMAL STABILITY: STABLE ☒ UNSTABLE ☐

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide, Carbon Dioxide, Acrolein, Acids, Ketones, Aldehydes, Hydrogen Sulfide

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL
INFORMATION:**

No information available

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal.

RCRA HAZARD CLASS: None

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT: N/A

OTHER: N/A

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA: This product and its components are listed on the TSCA 8(b) inventory.

CERCLA: None

SARA

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: None

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to cause cancer and birth defects, or other reproductive harm.

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Asphalt	8052-42-4	Yes	Yes	Yes	Yes	Yes	Yes
Crystalline Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Fiberglass Mat	65997-17-3	Yes	No	Yes	Yes	No	Yes
Talc	14807-96-6	Yes	No	Yes	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS MSDS: November 1988
Rev. May 2003

CHANGES SINCE PREVIOUS MSDS: Changed to the ANSI 16 section MSDS format.

This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.



GAF
Safety Data Sheet
SDS # 2092
SDS Date: December 2014

SECTION 1: PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: Ruberoid® EnergyCap™ Torch Plus Granule FR, Ruberoid® EnergyCap™ Torch Granule FR, Ruberoid® EnergyCap™ 30 Granule FR, Ruberoid® EnergyCap™ HW Plus Granule FR, Ruberoid® EnergyCap™ MOP Plus Granule FR

TRADE NAME: Roll Roofing

CHEMICAL NAME / SYNONYM: N/A

CHEMICAL FAMILY: N/A

MANUFACTURER: GAF

ADDRESS: 1 Campus Drive, Parsippany, NJ 07054

24-HOUR EMERGENCY PHONE (CHEMTREC): 800 – 424 – 9300

INFORMATION ONLY: 800 – 766 – 3411

PREPARED BY: Corporate EHS

APPROVED BY: Corporate EHS

SECTION 2: HAZARDS IDENTIFICATION

As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, the products listed below are considered articles and do not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements, GAF would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling and use of these products should be included in worker training programs.

ADDITIONAL HAZARD IDENTIFICATION INFORMATION:

PRIMARY ROUTE OF EXPOSURE: Occasional nuisance dust, Inhalation

SIGNS & SYMPTOMS OF EXPOSURE

EYES: May cause irritation to the eyes.

SKIN: May cause irritation to the skin.

INGESTION:	This product is not intended to be ingested. If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract.
INHALATION:	May cause irritation to the respiratory tract.
ACUTE HEALTH HAZARDS:	NIOSH has found that studies of workers exposed to asphalt fumes have repeatedly found irritation of the serous membranes of the conjunctivae (eye irritation) and the mucous membranes of the upper respiratory tract (nasal and throat irritation).
CHRONIC HEALTH HAZARDS:	<p>Studies in humans have found that exposure to respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis is a serious and irreversible disease; it may be progressive even after exposure has ceased; it can lead to disability and death. Human studies also have found that silicosis is a risk factor for tuberculosis, and that occupational exposure to respirable crystalline silica is associated with chronic obstructive pulmonary disease, including bronchitis and emphysema. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica.</p>
CARCINOGENICITY:	<p>IARC has determined that occupational exposure to oxidized asphalt and its emissions is probably carcinogenic to humans (Group 2A). IARC concluded that available data from cancer studies in humans points to an association between exposures to oxidized asphalts during roofing and lung cancer and tumors in the upper aero-digestive tract. In addition, IARC found sufficient evidence of carcinogenicity in experimental animals for extracts and fume condensates of oxidized asphalts.</p> <p>NIOSH has concluded that the collective data from human, animal, genotoxicity and exposure studies provide sufficient evidence that roofing asphalt fumes are a potential occupational carcinogen.</p> <p>Occupational exposure to respirable crystalline silica is classified as a known carcinogen in humans. IARC has determined that respirable crystalline silica is carcinogenic to humans (Group 1), based on findings of sufficient evidence of carcinogenicity in both humans and experimental animals. NTP has classified respirable crystalline silica as a known human carcinogen based on sufficient evidence of carcinogenicity from studies in humans indicating a causal relationship between occupational exposure to respirable crystalline silica and increased lung cancer rates. NIOSH has determined that respirable crystalline silica is a potential occupational carcinogen.</p> <p>IARC has determined that occupational exposure to Titanium Dioxide is possibly carcinogenic to humans (Group 2B). IARC concluded lung tumors were observed in rats following high dose exposure by inhalation and in female rats exposed by intra-tracheal instillation. Other studies have shown no tumors in rats following inhalation exposure and no tumors in mice or rats following oral exposure.</p>

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS #	% (BY WT)	OCCUPATIONAL EXPOSURE LIMITS		
			OSHA	ACGIH	OTHER
Oxidized Asphalt	64742-93-4	~40	NE	0.5 mg/m3 (inhalable fraction, as benzene-soluble aerosol)	5 mg/m3 – ceiling (15 min. fumes)
or					
Asphalt	8052-42-4	~40	NE	0.5 mg/m3 (inhalable fraction, as benzene-soluble aerosol)	5 mg/m3 – ceiling (15 min. fumes)
Granules	-	~20	NE	NE	NE
Calcium Borate	12291-65-5	12-15	NE	NE	15 mg/m3
Acrylic Polymer	Mixture	0-5	NE	NE	NE
Silica, Crystalline Quartz	14808-60-7	<1	10 mg/m3 / (% SiO ₂ + 2) – resp.	0.025 mg/m3	REL: 0.05 mg/m3 – resp.
Titanium Dioxide	13463-67-7	<1	15 mg/m3 total	10 mg/m3 total	
Non-Hazardous Ingredients	-	~20	NE	NE	NE

NE = Not Established

SECTION 4: FIRST AID MEASURES**FIRST AID PROCEDURES**

EYES:	Hold eyelids open and wash with gentle stream of water for at least 15 minutes preferably at eyewash fountain.
SKIN:	If contacted by hot asphalt. Cool with ice or water. Do not attempt to remove asphalt immediately. Consult medical personnel.
INHALATION:	Remove to fresh uncontaminated air.
INGESTION:	Not expected to be ingested.
NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:	Water-Jel has been shown to be an effective agent in softening and removing asphalt.

SECTION 5: FIRE FIGHTING PROCEDURES

SUITABLE EXTINGUISHING MEDIA: Water spray, Alcohol foam, Carbon Dioxide, or Dry chemical.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide and carbon monoxide.

RECOMMENDED FIRE FIGHTING PROCEDURES: NIOSH-approved self contained breathing apparatus is recommended for smoke protection.

UNUSUAL FIRE & EXPLOSION HAZARDS: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Pick up large pieces. Avoid creating dusts during clean up.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Hot asphalt is used to apply many of these products; appropriate personal protective equipment should be worn handling this material.

OTHER PRECAUTIONS: Avoid breathing the fumes from hot asphalt.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: N/A

RESPIRATORY PROTECTION: N/A under normal use conditions. In circumstances where dust or fumes are generated and may exceed recognized allowable exposure levels, appropriate NIOSH approved respiratory protection is recommended.

EYE PROTECTION: Safety glasses with side shields

SKIN PROTECTION: Cotton or leather gloves are recommended when handling.

OTHER PROTECTIVE EQUIPMENT: None

WORK HYGIENIC PRACTICES: Wash exposed skin prior to eating, drinking or smoking and at the end of each shift.

EXPOSURE GUIDELINES:

These products should be handled using methods and techniques that minimize or eliminate dust or fume generation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR:	Thin black sheet in roll form, may be surfaced with granules, talc, sand or film. Slight asphalt odor.		
FLASH POINT:	>500° F	LOWER EXPLOSIVE LIMIT:	No Data
METHOD USED:	COC	UPPER EXPLOSIVE LIMIT:	No Data
EVAPORATION RATE:	No Data	BOILING POINT:	No Data
pH (undiluted product):	No Data	MELTING POINT:	No Data
SOLUBILITY IN WATER:	No Data	SPECIFIC GRAVITY:	No Data
VAPOR DENSITY:	No Data	PERCENT VOLATILE:	No Data
VAPOR PRESSURE:	No Data	MOLECULAR WEIGHT:	No Data
VOC WITH WATER (LBS/GAL):	No Data	WITHOUT WATER (LBS/GAL):	No Data

SECTION 10: STABILITY AND REACTIVITY**THERMAL STABILITY:****STABLE** X**UNSTABLE** ☐**CONDITIONS TO AVOID (STABILITY):** None known.**INCOMPATIBILITY (MATERIAL TO AVOID):** None known.**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** None known.**HAZARDOUS POLYMERIZATION:** Will Not Occur**SECTION 11: TOXICOLOGICAL INFORMATION****TOXICOLOGICAL INFORMATION:** None available for the product. See section 3.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Comply with state and local regulations for disposal.

RCRA HAZARD CLASS: None

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

ID NUMBER: N/A

PACKING GROUP: N/A

LABEL STATEMENT: N/A

OTHER: N/A

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA: This product and its components are listed on the TSCA 8(b) inventory.

CERCLA: None

SARA

311/312 HAZARD CATEGORIES: None

313 REPORTABLE INGREDIENTS: None

CALIFORNIA PROPOSITION 65: This product contains a chemical known to the state of California to

cause cancer and birth defects, or other reproductive harm.

Other state regulations may apply. Check individual state requirements. The following components appear on one or more of the following state hazardous substances lists:

Chemical Name	CAS #	CA	MA	MN	NJ	PA	RI
Oxidized Asphalt	64742-93-4	No	No	No	No	No	No
Asphalt	8052-42-4	Yes	Yes	Yes	Yes	Yes	Yes
Crystalline Silica	14808-60-7	Yes	Yes	Yes	Yes	Yes	Yes
Titanium Dioxide	13463-67-7	No	Yes	Yes	Yes	Yes	Yes
Calcium Borate	12291-65-5	No	No	No	No	No	No

SECTION 16: OTHER INFORMATION

ADDITIONAL COMMENTS: None

DATE OF PREVIOUS SDS: October 2013

CHANGES SINCE PREVIOUS SDS: Headquarters Address Change

This information relates to the specific material designated and may not be valid for such material used on combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, expressed or implied, is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license of valid patents.



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FL Lic. # CCC057467

References

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J & M Management
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Florida Power & Light Company
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Contact phone: 561-691-2656
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International Realty
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