

“The Source for Commercial Roofing”

Louisiana Contractor's License # 39349

503 Coleman Place

P. O. Box 370

Kenner, Louisiana 70063

www.rycars.com

504-305-5309

**Labor & Materials Necessary to Remove, Replace &
Install a New Roof On The Sign & Signal Building For
The Jefferson Parish Traffic Engineering Department**

Bid Number – 50-00139054

Submit To

Jefferson Parish Purchasing Department

200 Derbigny Street, Suite 4400

Gretna, Louisiana 70053

Proposal Due Date August 11, 2022 @ 2:00PM

Corporate Office
503 Coleman Place
Kenner, Louisiana 70062
Telephone • 504.305.5309
Facsimile • 504.305.5308

Georgia Office
3450 Buffington Center • Suite B
Atlanta, Georgia 30349
Telephone • 404.209.9991
Facsimile • 404.209.9936

www.RYCARS.com

DATE: 7/13/2022

Page: 6

BID NO.: 50-00139054

BID FORM
Non Public Works

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES X NO

MAXIMUM ESCALATION PERCENTAGE REQUESTED 15 %

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF 10/10/2022 .

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES

 11/14/2022

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable)

 39349

THIS SECTION MUST BE COMPLETED BY BIDDER:

FIRM NAME: RYCARS Construction, LLC

ADDRESS: 503 Coleman Place

CITY, STATE: Kenner, LA

ZIP: 70062

TELEPHONE: (504) 305-5309

FAX: (504) 305-5308

EMAIL ADDRESS: ryanburks@rycars.com

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form by placing the addendum number as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: 1

NUMBER: 2

NUMBER:

NUMBER:

TOTAL PRICE OF ALL BID ITEMS: \$ 201,060.00

AUTHORIZED

SIGNATURE: 

 Ryan E Burks

Printed Name

TITLE: President

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00139054

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	JOB	LABOR & MATERIALS NEEDED TO REMOVE, SUPPLY & INSTALL A NEW ROOF ON THE SIGN AND SIGNAL BUILDING FOR THE JEFFERSON PARISH DEPARTMENT OF TRAFFIC ENGINEERING 0010 ROOF REPLACEMENT	\$ 201,060.00	\$ 201,060.00
2	.00		LABOR, MATERIALS AND EQUIPMENT TO REMOVE OLD ROOF AND REPLACE WITH NEW. 2100 DICKORY AVENUE HARAHAN, LA 70123 SIGN AND SIGNAL BUILDING SPECIFICATIONS ATTACHED	\$ 0.00	\$ 0.00
3	1.00	JOB	0020 ANCILLARY WORK	\$ 25.00/SQ FT	\$ 25.00/ SQ FT

Non-Public Works Bid

AFFIDAVIT

STATE OF Louisiana

PARISH/COUNTY OF Jefferson

BEFORE ME, the undersigned authority, personally came and appeared: _____
Ryan E Burks, (Affiant) who after being by me duly sworn, deposed and said that
he/she is the fully authorized President of RYCARS Construction, LLC (Entity),
the party who submitted a bid in response to Bid Number 50-00139054, to the Parish of
Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

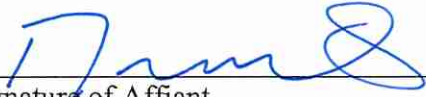
Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.



Signature of Affiant

Ryan E Burks

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 11th DAY OF August, 2022.



Notary Public

Claudette Madere

Printed Name of Notary

84527

Notary/Bar Roll Number

My commission expires Life.





The Source for Commercial Roofing

Certification of Signature Authority

Be it known that as of March 12, 2022 the Members and Managers of RYCARS Construction, LLC (a Louisiana organized limited liability company) hereby authorizes and empowers its Member, Ryan E. Burks to negotiate for and sign any and all bid proposal documents and/or contracts which this Limited Liability Company might enter into for the furnishing of services for the Company under such terms, conditions and stipulates, and for such consideration as he might deem to the best interest of the Company.

Respectfully,
RYCARS Construction, LLC

Ryan E. Burks
Managing Member

Company Seal



Corporate Office
503 Coleman Place
Kenner, Louisiana 70062
Telephone • 504.305.5309
Facsimile • 504.305.5308

Georgia Office
3450 Buffington Center • Suite B
Atlanta, Georgia 30349
Telephone • 404.209.9991
Facsimile • 404.209.9936

Austin Office
316 W 12th Street, 6th Floor
Austin, Texas 78701
Telephone • 512.650.0212



RYCACO-C03

DSPEARS

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

1/5/2022

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 have ADDITIONAL INSURED provisions or 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 Houchens Insurance Group 1240 Fairway Street Bowling Green, KY 42103	CONTACT NAME: Destiny Spears	
	PHONE (A/C, No, Ext): (270) 563-7119 4290	FAX (A/C, No): (270) 843-8808
INSURED RYGARS Construction LLC PO Box 370 Kenner, LA 70063	E-MAIL ADDRESS: dspears@higusa.com	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A: Burlington Insurance Company	
	INSURER B: Auto-Owners Insurance Company	
	INSURER C: Scottsdale Insurance Company	
	INSURER D: Amerisafe, Inc.	
INSURER E: Lloyds		
INSURER F:		

COVERAGES

CERTIFICATE NUMBER:

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 INSD	SUBR WVO	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:			268BG06491	1/1/2022	1/1/2023	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 100,000 MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
B	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			53-173-742-00	1/1/2022	1/1/2023	COMBINED SINGLE LIMIT (Per accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			XLS0121682	1/1/2022	1/1/2023	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000 \$
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/A			AVWCLA3053162022	1/1/2022	1/1/2023	<input checked="" type="checkbox"/> PER STATUTE <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
E	Inland Marine			21MRSNU200001	1/1/2022	1/31/2022	Leased/Rented 100,000

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

CERTIFICATE HOLDER

CANCELLATION

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

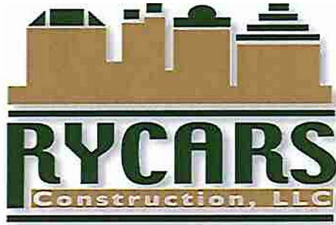
AUTHORIZED REPRESENTATIVE

Evidence of Coverage

ACORD 25 (2016/03)

© 1988-2015 ACORD CORPORATION. All rights reserved.

The ACORD name and logo are registered marks of ACORD



“The Source for Commercial Roofing”

Louisiana Contractor's License # 39349

503 Coleman Place

P. O. Box 370

Kenner, Louisiana 70063

www.rycars.com

504-305-5309

**Labor & Materials Necessary to Remove, Replace &
Install a New Roof On The Sign & Signal Building For
The Jefferson Parish Traffic Engineering Department
Bid Number – 50-00139054**

Bid Submittal Documents

Corporate Office
503 Coleman Place
Kenner, Louisiana 70062
Telephone • 504.305.5309
Facsimile • 504.305.5308

Georgia Office
3450 Buffington Center • Suite B
Atlanta, Georgia 30349
Telephone • 404.209.9991
Facsimile • 404.209.9936

www.RYCARS.com



EVERGUARD® TPO

MEMBRANE

60

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

gaf.com

Why TPO

- Great Value—Excellent performance at a cost-effective price
- Excellent Seam Strength—Heat-welded seams provide greater seam strength to taped and other seams
- Long-term Weathering—Excellent long-term heat and UV resistance
- Energy Saving—Highly reflective and emissive white roof can help reduce energy costs and urban heat island effect
- CREST Energy Savings Calculator—See your potential savings at cool.gaf.com
- Versatile Application Method

Why GAF EverGuard® TPO

- Outperforms standard TPO in heat aging and UV tests—the best predictors of TPO performance
 - After accelerated heat aging at 275°F (135°C) for 105 days, EverGuard® TPO showed no cracking—while every one of the competitors' samples had failed! **See below:**
 - UV testing—Greater than 2.5 times the industry standard (ASTM D6878 weather resistance test)
- Guarantees are available up to 25 years when using EverGuard® TPO 60 mil Membrane.*
- Easier to install due to:
 - Large welding window
 - Most complete line of accessories
 - 10' (3.05 m) wide sheets



Fall River Courthouse, Fall River, Massachusetts

Installation

EverGuard® TPO 60 mil Membrane is suitable for all types of single-ply systems:

- Mechanically Attached Application...for a quick and cost-effective system that can be installed practically year-round.
- RhinoBond® Application...can be applied without using adhesives and installed practically year round. Qualifies for the same guarantee length as an adhered system.*
- Adhered Application...can be installed with EverGuard® 1121 Solvent-Based Adhesive, EverGuard® Low VOC Adhesive, or EverGuard® WB181 Water-Based Adhesive for the smoothest appearance. Provides excellent wind uplift performance.

Accessories

Field fabrication of TPO accessories is time-consuming, costly, inconsistent, and can lead to unreliable details that compromise a watertight roofing system. EverGuard® TPO prefabricated accessories deliver consistent quality and eliminate the worry and problems often associated with field fabrication. They can also boost productivity up to 200%,** while reducing installed cost by up to 12%.

*See applicable guarantee for complete coverage and restrictions.

**Based on GAF estimate to field-fabricate flashing details.



U.S. only



California
Title 24
Compliant



TPO membranes meet the
performance requirements
of ICC ER-6030

EverGuard® TPO 60 mil Membrane

Applicable Standards

UL Listed, FM Approved, Miami-Dade County Product Control Approved, State of Florida Approved, CRRC Rated, Title 24 Compliant*, ENERGY STAR® Certified**, ASTM D6878.

Physical Properties	ASTM Test Method	ASTM D6878 Minimum	EverGuard® Typical Test Data
1. Certain data is provided in MD (machine direction) x CMD (cross machine direction) format. 2. Data is based upon typical product performance, and is subject to normal manufacturing tolerance and variance.			
Nominal Thickness	ASTM D751	0.039" (min.) (0.99 mm)	0.060" (1.52 mm)
Breaking Strength	ASTM D751 Grab Method	220 lbf/in. (38.5 kn/m)	305 lbf x 290 lbf (454 x 432 kg/m)
Factory Seam Strength	ASTM D751	66 lbf (98.34 kg/m)	135 lbf (membrane failure) (201.1 kg/m)
Elongation at Break	ASTM D751	15%	30%
Heat Aging	ASTM D573	90% Retention of Breaking Strength and Elongation at Break	100%
Tear Strength	ASTM D751 8" x 8" (203 x 203 mm) Sample	55 lbf (81.95 kg/m)	75 lbf x 130 lbf (111.8 x 193.7 kg/m)
Puncture Resistance	FTM 101C Method 2031	Not Established	380 lb. (172 kg)
Cold Brittleness	ASTM D2137	-40°C	-40°C
Permeance	ASTM E96	Not Established	0.08 Perms
Dimensional Change	ASTM D1204 @158°F (70°C), 6 hrs.	+/-1%	0.4%
Water Absorption	ASTM D471 @158°F (70°C), 1 week	+/-3.0% (top coating only)	0.7%
Hydrostatic Resistance	ASTM D751 Method D	Not Established	430 psi
Ozone Resistance	ASTM D1149	No visible deterioration @ 7 x magnification	No visible deterioration @ 7 x magnification
SRI (Solar Reflectance Index) Initial/Aged	N/A	N/A	94/81 83 Aged Title 24
Reflectivity (white) Initial/Aged	ASTM C1549 ASTM E903	N/A N/A	0.76/0.68 81.9% Reflectance
Emissivity (white) Initial/Aged	ASTM C1371 ASTM E403	N/A N/A	0.90/0.83 0.94
Weather Resistance	ASTM G155/D6878	10,080 KJ/(m² · nm) at 340 nm	>25,000 KJ/(m² · nm) at 340 nm
Heat Aging	ASTM D573	240°F (115°C) for 32 weeks	60 weeks
Thickness Above Scrim	ASTM D7635	Min 30% of Total Thickness	22.1 mil (Nominal)
Guarantee			
Up to 25 years			

*White, Energy Gray, and Energy Tan Membranes Only

**ENERGY STAR® only valid in the U.S.

Product Data

Roll Size	5'x 100'	6' x100'	8'x100'	10'x100'	12'x100'
	(1.52 x 30.5 m) (500 sq. ft. [46.5 sq.m])	(1.83 x 30.5 m) (600 sq. ft. [55.74 sq.m])	(2.44 x 30.5 m) (800 sq. ft. [74.3 sq.m])	(3.05 x 30.5 m) (1,000 sq. ft. [92.9 sq.m])	(3.65 x 30.5 m) (1,200 sq. ft. [111.484 sq.m])
Roll Weight	162 lb. (73.5 kg)	194.4 lb. (88.2 kg)	257 lb. (117 kg)	322 lb. (146.1 kg)	386.4 lb. (175.3 kg)
Colors	White, Tan, Gray				
Storage	Store rolls on their sides on pallets or shelving in a dry area.				
Safety Warning	Membrane rolls are heavy. Position and install by at least two people.				
Note: Membrane rolls shipped horizontally on pallets, stacked pyramid-style and banded. Product sizes, dimensions, and widths are nominal values and are subject to normal manufacturing/packaging tolerance and variation.					

RhinoBond® is a registered trademark of OMG.



EverGuard[®]TPO

SINGLE-PLY ROOFING SYSTEMS

TPO Roll Accessories

Description

EverGuard[®] TPO single-ply roofing system accessories provide roofing contractors an easy-to-install, factory-built detail. EverGuard[®] accessories are constructed from GAF's proven durable EverGuard[®] TPO single-ply reinforced membrane.

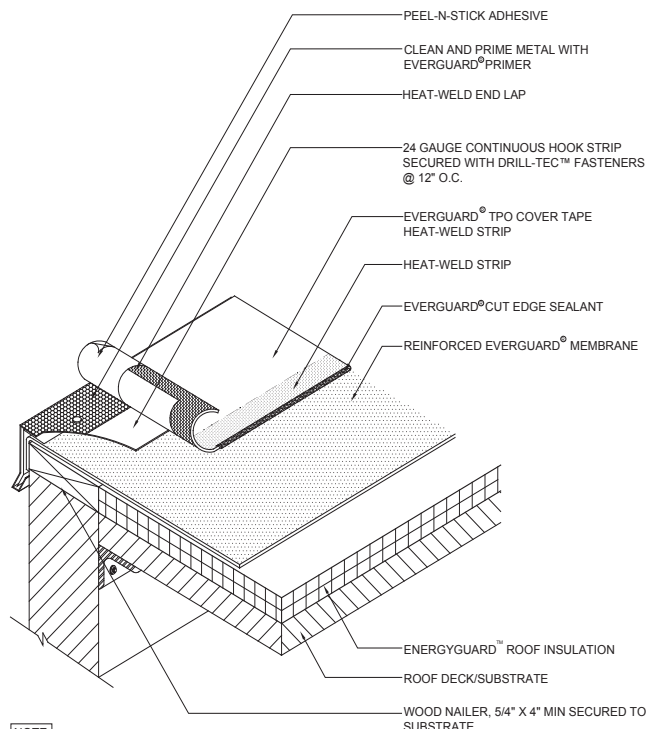
- **Cost effective...**
Reduce installed costs
- **Improved reliability...**
Factory-built accessories reduce risk of leaks and callbacks
- **Improved aesthetics...**
Uniform look

Application

EverGuard[®] TPO Heat-Weldable Cover Tape is constructed from 0.045 inch reinforced TPO membrane; the six-inch-wide tape has a 3-inch self-adhered area and a 3-inch heat-weldable area. The self-adhered membrane area is adhered to primed edge metal while the heat-weldable area is attached to the roofing membrane using the welding machine of choice. EverGuard[®] Heat-Weldable Cover Tape is eligible for inclusion in EverGuard[®] Diamond Pledge[™] Guarantee at up to 20 years of coverage.

Product Information

EverGuard[®] TPO Heat-Weldable Cover Tape is packaged as a hundred foot roll with two rolls in every box.



NOTE

1. TPO COVER TAPE ONLY TO BE USED WITH TPO MEMBRANE SYSTEMS.
2. CLEAN METAL AND MEMBRANE WITH EVERGUARD[®] TPO CLEANER AND LET DRY.
3. PRIME THE METAL ONLY WITH EVERGUARD[®] TPO PRIMER. DO NOT SPILL PRIMER ON WELDED SEAM AREA.
4. HOT-AIR WELD THE MEMBRANE TO MEMBRANE AREA USING EITHER A ROBOTIC OR HAND WELDER TO SPEC.

Heat-Weldable Cover Tape

Specifications

Roll length: 100'

Roll width: 6"

Shipping Specifications

Rolls per carton: 2

Weight of carton: 34 lbs

Cartons per pallet: 27

Code Approvals

- UL Listed Accessory
- Miami-Dade County Approved
- Texas Department of Insurance
- ICC-ES
- State of Florida Approved

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

www.gaf.com



Accessory

Description

EverGuard® TPO 6" Cover Tape provides roofing contractors with an easy-to-install factory-built detail. EverGuard® TPO 6" Cover Tape is constructed from GAF's proven, durable, high-performance EverGuard® TPO.

- **Cost effective...**Reduces installed costs
- **Improved reliability...**Factory-built accessories reduce risk of leaks and callbacks
- **Improved aesthetics...**Uniform look

Application

For use in stripping-in primed galvanized edge metal and to install RapidSeam™ end laps. Using soap and water, clean the entire surface and roof membrane to be covered. Dry the entire area. Wipe area to be primed with a white cloth moistened with EverGuard® TPO Cleaner. Brush or roller-apply the EverGuard® Primer 3" (76 mm) onto each surface, carrying this past the ends 3" (76 mm). Install the EverGuard® TPO 6" Cover Tape over the primer after flash-off and roll-in with a silicone roller.



6" Cover Tape

Product Information

EverGuard® TPO 6" Cover Tape is a 6" (152 mm) wide, non-reinforced TPO membrane backed with a butyl tape adhesive.

Specifications	
Roll Length	100' (30.5 m)
Roll Width	6" (152 mm)
Shipping Specifications	
Rolls per Case	2
Weight per Case	37.4 lb. (16.96 kg)
Cases per Pallet	36
Product SKUs	
White	755A920
Tan	755A820
Gray	755A345

TPO Accessories

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

gaf.com



Accessory

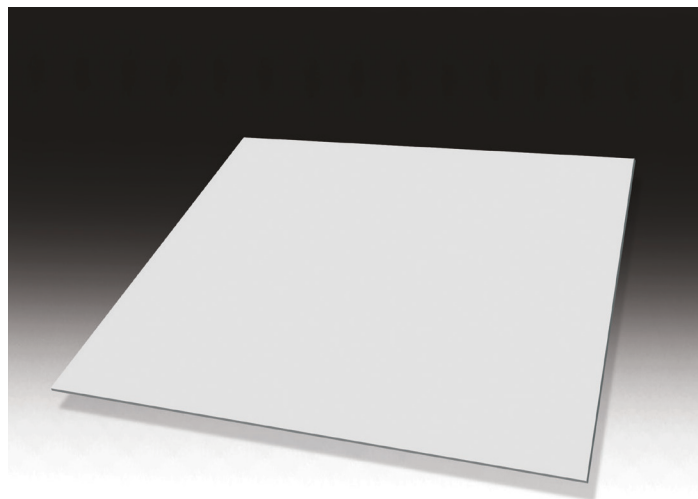
TPO Accessories

Description

EverGuard® TPO Coated Metal Sheets are constructed with TPO membrane laminated to galvanized sheet metal.

Product Information

- 24-gauge steel with a 25-mil thick membrane film
- Cuts and forms like standard sheet metal
- Field and flashing TPO membrane heat welds directly to coated metal
- For metal gravel stop and drip edges, metal base and curb flashing, sealant pans, and scupper sleeves
- Available in both EverGuard® and EverGuard Extreme® TPO



EverGuard® TPO Coated Metal Sheets

- 4' (1.21 m) x 10' (3.05 m) sheets
- 5, 10, or 30 sheets per pallet; 40 lb. (18.14 kg)/sheet
- Also available in (allow 2 – 4 weeks lead time):
 - Coated Aluminum – 23 lb. (10.43 kg)/sheet
 - 25-mil TPO and 40-gauge corrosion-resistant aluminum
 - Coated Stainless – 40 lb. (18.14 kg)/sheet
 - 25-mil TPO and 24-gauge stainless steel
 - 20-gauge Galvanized – 60 lb. (27.22 kg)/sheet
 - 25-mil TPO and 20-gauge galvanized steel

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

gaf.com

Visit gaf.com to see our full line of prefabricated accessories!



Description

EverGuard[®] TPO UN-55 Detailing Membrane provides roofing contractors with an easy-to-install factory-built detail. EverGuard[®] TPO UN-55 Detailing Membrane is constructed using GAF's proven, durable EverGuard[®] TPO. This accessory is used as an alternative material for flashing penetrations and corners of base and curb flashing.

- **Cost effective...**
Reliability is built in; made with GAF EverGuard[®] TPO membrane
- **Improved reliability...**
Factory-built accessories reduce risk of leaks and callbacks
- **Improved aesthetics...**
Uniform look

Application

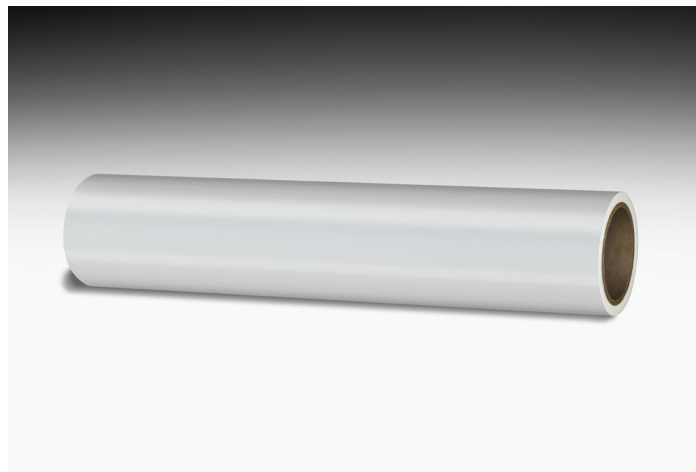
EverGuard[®] TPO UN-55 Detailing Membrane is designed for use with GAF EverGuard[®] TPO and EverGuard[®] Freedom[™] Self-Adhering TPO. UN-55 Detailing Membrane may be installed on:

- EverGuard[®] TPO 45, 60, and 80 mil mechanically attached or fully adhered roofing systems
- EverGuard[®] Freedom[™] TPO 45, 60, and 80 mil self-adhering roofing systems

See published application and specifications manual for detailed instructions.

Product Information

EverGuard[®] TPO UN-55 Detailing Membrane come standard in White, and is also offered in several additional colors. The membrane is unreinforced, so it's easier to work with at difficult flashing details.



UN-55 Detailing Membrane

- Manufactured to strict specifications
- Designed for ease of installation
- Alternative flashing/reinforcement material for penetrations and corners
- Required wherever preformed vent boots cannot be used

SPECIFICATIONS	
Roll Size:	24" x 50' (610 mm x 15.24 m) rolls
Material:	55 mil unreinforced TPO membrane
SHIPPING SPECIFICATIONS	
Weight per roll:	28 lbs (12.7 kg)

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

gaf.com

Visit gaf.com to see our full line of prefabricated accessories!



TPO Accessories

Description

EverGuard[®] TPO single-ply roofing system accessories provide roofing contractors an easy-to-install factory-built detail. EverGuard[®] accessories are manufactured using a proprietary formulation designed for use with GAF EverGuard[®] TPO single-ply membranes.

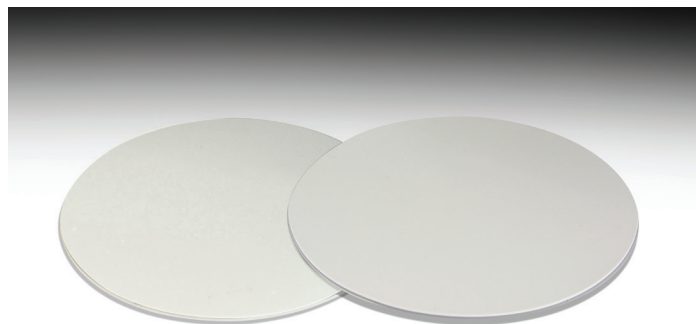
- **Cost Effective...**
Reduces installed costs
- **Improved Reliability...**
Factory-built accessories reduce risk of leaks and callbacks
- **Improved Aesthetics...**
Uniform look

Application

EverGuard[®] TPO accessories are designed for use with GAF EverGuard[®] TPO single-ply membranes. The accessories may be installed on mechanically attached, fully adhered, or RhinoBond[®] EverGuard[®] TPO roofing systems. EverGuard[®] accessories are installed using conventional techniques. See published application and specifications manual for detailed instructions.

Product Information

EverGuard[®] T-Joint Cover Patches are created from a proprietary TPO formulation engineered to work with EverGuard[®] TPO single-ply membranes. EverGuard[®] TPO T-Joint Cover Patches create a membrane seal over T-joints that arise when installing a 60 or 80 mil EverGuard[®] TPO system.



T-Joint Cover Patch

- Conforming membrane seal for use over T-joints in 60 and 80 mil membrane applications
- Designed for ease of welding over T-joints formed when installing an EverGuard[®] TPO system
- EverGuard[®] T-Joint Cover Patches are formed using unreinforced membrane to a nominal 55 mil thickness

SPECIFICATIONS	
Membrane Thickness:	.055" (1.40 mm)
Unit Size:	4" x 4" (102 mm x 102 mm)
SHIPPING SPECIFICATIONS	
Patches per carton:	100
Weight per carton:	3.3 lb. (1.5 kg)
Cartons per pallet:	196
PRODUCT SKUs	
T-Joint Cover Patch White	7712920
T-Joint Cover Patch Gray	7712345
T-Joint Cover Patch Tan	7712820

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

gaf.com

Also Available...





Molded Accessories

TPO Molded Accessories

Description

EverGuard® TPO single-ply roofing system molded accessories provide roofing contractors an easy-to-install, factory-built detail. EverGuard® molded accessories are manufactured using a proprietary formulation designed for use with GAF's EverGuard® TPO single-ply membranes.

- **Cost effective...**
Reduces installed costs
- **Improved Reliability...**
Factory-built accessories reduce risk of leaks and callbacks
- **Improved aesthetics...**
Uniform look

Application

EverGuard® TPO molded accessories are designed for use with GAF EverGuard® TPO single-ply membranes and EverGuard® Freedom™ TPO self-adhering membranes. The molded accessories may be installed on mechanically attached, fully adhered, or self-adhered EverGuard® TPO roofing systems. EverGuard® molded accessories are installed using conventional techniques. See published application and specifications manual for detailed instructions.

Product Information

EverGuard® Fluted Corners are molded from a proprietary TPO formulation engineered to work with EverGuard® TPO single-ply membranes. Fluted Corners allow for easy flashing of non-uniform corners.



Fluted Corner

- Manufactured to accommodate imperfect corners
- Designed for ease of welding in tight areas
- Fluted Corners are formed using unreinforced membrane to a nominal 50 mil thickness

SPECIFICATIONS	
Diameter:	8"
Nominal thickness:	.050"
SHIPPING SPECIFICATIONS	
Corners per carton:	20
Weight per carton:	2.5 lbs.
Cartons per pallet:	250
PRODUCT SKUs	
TPO Fluted Corner White	8A00920WA
TPO Fluted Corner Tan	8A00820WA
TPO Fluted Corner Grey	8A00345WA

Also Available...



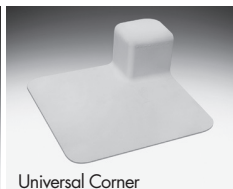
Pourable Sealer Pocket



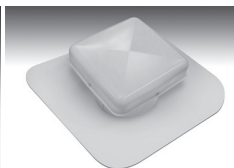
Inside Corner



Vent Boot



Universal Corner



Vent

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

gaf.com



Molded Accessories

TPO Molded Accessories

Description

EverGuard® TPO single-ply roofing system molded accessories provide roofing contractors an easy-to-install, factory-built detail. EverGuard® molded accessories are manufactured using a proprietary formulation designed for use with GAF's EverGuard® TPO single-ply membranes.

- **Cost effective...**
Reduces installed costs
- **Improved reliability...**
Factory-built accessories reduce risk of leaks and callbacks
- **Improved aesthetics...**
Uniform look

Application

EverGuard® TPO molded accessories are designed for use with GAF EverGuard® TPO single-ply membranes and EverGuard® Freedom™ TPO self-adhering membranes. The molded accessories may be installed on mechanically attached, fully adhered, or self-adhered EverGuard® TPO roofing systems. EverGuard® molded accessories are installed using conventional techniques. See published application and specifications manual for detailed instructions.

Product Information

EverGuard® Inside Corners are molded from a proprietary TPO formulation engineered to work with EverGuard® TPO single-ply membranes. Inside Corners allow for fast flashing of base and curb corners.



Inside Corner

- Manufactured to accommodate inside corners of base and curb flashings
- Designed for ease of welding in tight areas
- Inside Corners are formed using unreinforced membrane to a nominal 50 mil thickness

SPECIFICATIONS	
Membrane thickness:	.050"
Corner dimensions:	6" x 6" x 5 1/4"
SHIPPING SPECIFICATIONS	
20 corners per carton:	3.5 lbs./carton
Cartons per pallet:	54
PRODUCT SKUs	
Inside Corner White	8509920WA
Inside Corner Grey	8509345WA
Inside Corner Tan	8509820WA

Also Available...



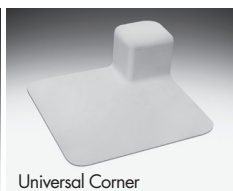
Fluted Corner



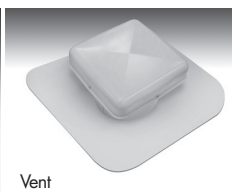
Split Pipe Boot



Vent Boot



Universal Corner



Vent

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

gaf.com



Molded
Accessories

TPO Molded Accessories

Description

EverGuard® TPO single-ply roofing system molded accessories provide roofing contractors an easy-to-install, factory-built detail. EverGuard® molded accessories are manufactured using a proprietary formulation designed for use with GAF's EverGuard® TPO single-ply membranes.

- **Cost effective...**
Reduces installed costs
- **Improved Reliability...**
Factory-built accessories reduce risk of leaks and callbacks
- **Improved aesthetics...**
Uniform look

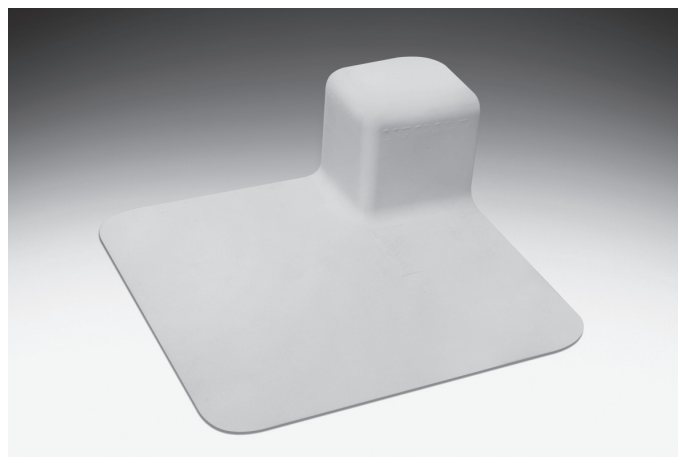
Application

EverGuard® TPO molded accessories are designed for use with GAF EverGuard® TPO single-ply membranes and EverGuard® Freedom™ TPO self-adhering membranes. The molded accessories may be installed on mechanically attached, fully adhered, or self-adhered EverGuard® TPO roofing systems. EverGuard® molded accessories are installed using conventional techniques. See published application and specifications manual for detailed instructions.

Product Information

EverGuard® Universal Corners accommodate both inside and outside corners of base and curb flashings. Simply cut at markings to produce either an inside or outside corner reinforcement. EverGuard® Universal Corners eliminate the need to inventory two items.

Also Available...



Universal Corner

- One standard size
- Can be cut to accommodate use as either an inside or outside corner reinforcement
- Molded to 60 mil thickness from TPO

SPECIFICATIONS	
Size:	4" x 4" with Flange
Thickness:	.060"
SHIPPING SPECIFICATIONS	
Corners per carton:	6
Weight per carton:	6 lbs.
Cartons per pallet:	60
PRODUCT SKUs	
White	7730920CU

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

gaf.com



Fluted Corner



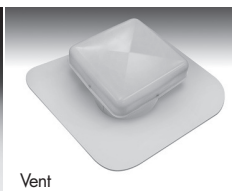
Inside Corner



Preformed Vent Boot



Square Tube Wrap



Vent



EverGuard[®]TPO
SINGLE-PLY ROOFING SYSTEMS

Molded
Accessories

TPO Molded Accessories

Description

EverGuard[®] TPO single-ply roofing system molded accessories provide roofing contractors an easy-to-install, factory-built detail. EverGuard[®] molded accessories are manufactured using a proprietary formulation designed for use with GAF's EverGuard[®] TPO single-ply membranes.

- **Cost effective...**
Reduces installed costs
- **Improved reliability...**
Factory-built accessories reduce risk of leaks and callbacks
- **Improved aesthetics...**
Uniform look

Application

EverGuard[®] TPO molded accessories are designed for use with GAF EverGuard[®] TPO single-ply membranes and EverGuard[®] Freedom[™] TPO self-adhering membranes. The molded accessories may be installed on mechanically attached, fully adhered, or self-adhered EverGuard[®] TPO roofing systems. EverGuard[®] molded accessories are installed using conventional techniques. See published application and specifications manual for detailed instructions.

Product Information

EverGuard[®] Vent Boots are molded from a proprietary TPO formulation engineered to work with EverGuard[®] TPO single-ply membranes. Vent Boots allow for fast flashing of Vents and pipes between 1 and 6 inches in diameter.

Also Available...



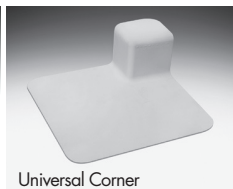
Fluted Corner



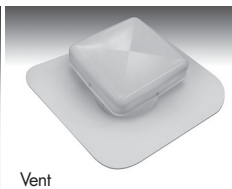
Inside Corner



Pourable Sealer Pocket



Universal Corner



Vent



Vent Boot

- One standard size accommodates most common pipes and conduits
- Supplied with stainless-steel clamping rings

SPECIFICATIONS	
Membrane thickness:	0.075"
For pipe sizes:	1" - 6" dia.
SHIPPING SPECIFICATIONS	
Boots per carton:	6
Weight per carton:	9 lbs.
Cartons per pallet:	54
PRODUCT SKUs	
Vent Boot White	7710920CU

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

gaf.com



Preformed Accessories

TPO Preformed Accessories

Description

EverGuard® TPO single-ply roofing system preformed accessories provide roofing contractors an easy-to-install, factory-built detail. EverGuard® preformed accessories are constructed from GAF's proven, durable EverGuard® TPO single-ply reinforced membrane.

- **Cost effective...**
Reduces installed costs
- **Improved reliability...**
Factory-built accessories reduce risk of leaks and callbacks
- **Improved aesthetics...**
Uniform look

Application

EverGuard® TPO preformed accessories are designed for use with GAF EverGuard® TPO single-ply membranes. The preformed accessories may be installed on mechanically attached, fully adhered, or self-adhered EverGuard® TPO roofing systems. Preformed accessories are installed using conventional techniques. See published application and specifications manual for detailed instructions.

Product Information

EverGuard® Split Pipe Boots are constructed from EverGuard® reinforced 45 mil membrane. Three standard sizes of Split Pipe Boots are available. Since they are split, they can be wrapped around pipes and conduit where closed boots cannot be used.



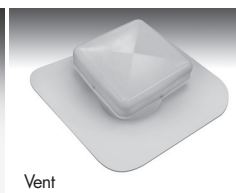
Split Pipe Boot

- Available in 3 standard sizes
- Custom sizes also available*

SPECIFICATIONS	ITEM DIMENSIONS/SKU #
For pipe sizes:	1" x 2" 85G1920
	3" x 5" 85G2920
	6" x 8" 85G3920
SHIPPING SPECIFICATIONS	
Boots per box:	6
Weight per box:	
1" - 2"	7.5 lbs.
3" - 5"	7.5 lbs.
6" - 8"	11 lbs.
Boxes per pallet:	
1" - 2"	36
3" - 5"	36
6" - 8"	24

*Contact your local representative for details.

Also Available...



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



FLEXSEAL CAULK GRADE

Description

TOPCOAT® FlexSeal Caulk Grade is a white solvent-based synthetic elastomeric sealant. FlexSeal is extremely flexible and durable, but with a higher viscosity formulation than Standard FlexSeal. Like all solvent-based products, the surface must be clean, completely free of moisture and residual contaminants before application. FlexSeal Caulk Grade is especially suited for use in any application where caulk is typically used. If a more fluid viscosity is desired, FlexSeal is also available in both a standard viscosity as FlexSeal and a low viscosity version FlexSeal LV.

Uses

FlexSeal Caulk Grade is designed for use on metal, copper, concrete, wood, asphalt shingles, SBS, APP, EPDM, BUR, TPO and PVC substrates. Especially designed for use where elastomeric caulks are required; like term bar applications, or around clamping rings at penetrations. FlexSeal Caulk Grade may be used for cold weather applications provided that the material is stored properly and the substrate is dry prior to application. This product is easiest to apply at temperatures above 32°F (0°C). Substrate temperatures must be below 120°F (48.9°C) when applying product.

Advantages

- Extremely flexible and durable
- Ideal for termination bar, railing, step flashings, or edge metal
- Durable and UV resistant; will not chalk, crack or peel
- Joint movement capability maximum \pm 25%

- Bonds to multiple substrates including; metal, copper, concrete, wood, asphalt shingles, SBS, APP, EPDM, BUR, TPO, and PVC.

- Paintable

- Limited material warranty available for up to 10 years*

- May be used in Guaranteed Projects up to 20 years**

- Available in 10 oz. cartridges

For application questions, please contact GAFMC Contractor Services at 1-800-766-3411.

Applicable Standards

FlexSeal Caulk Grade meets ASTM. D-412 and D-920; and is tested in accordance with D-2196 and D-1475.

Application Considerations

FlexSeal Caulk Grade is not a structural component and it is not intended to bridge large voids. Joint depth should not exceed 1/2" wide by 1/2" deep (13 mm x 13 mm). If joint exceeds 1/2" (13 mm) deep, the sealant depth should be controlled by a closed cell backer rod. The number of joints and width of joints should be designed to accommodate a maximum of 25% movement. Note: Apply only as directed. Over-application may result in slumping, dripping, or unsightly appearance.

Note: Repair leaks promptly to avoid adverse effects, including mold growth.

*See warranties and guarantees for complete coverage and restrictions.

**When used as a part of a multi-ply system. FlexSeal Caulk Grade is a maintenance item and should be inspected periodically as a part of regular roof maintenance.

TOPCOAT® FLEXSEAL CAULK GRADE TECHNICAL DATA

Application Rate:	Approximately 1/4 -3/8 inch (6 – 10 mm) bead
Application Method:	Caulk Gun
Application Temp (air, surface):	32°F - 120°F (0°C – 48.9°C)
Drying Time (varies by conditions):	24 – 48 hrs; Skins in less than 1 hour; Full Cure - approximately 48 hours
Total Solids (by weight):	77% \pm 2%
Specific Gravity:	1.24 \pm 0.1
Weight per Gallon:	10.3 \pm 0.5 lbs
Viscosity (75°F (23.9°C)):	1,200,000 cps \pm 10%
Tensile:	>250 psi (>1.72 N/sq mm)
Storage:	Recommended storage temperature range 50°F-90°F (10°C-32.2°C). Storage for continued periods outside this temperature range may shorten shelf life
Shelf Life:	Approximately 1 year.
Clean-up:	Mineral Spirits, Toluene, Xylene



Sealant

Sealants
TPO

Description

EverGuard® One-Part Pourable Sealant is a one-part, moisture-cure, self-leveling sealant designed for use in pitch pans on single-ply roof systems. Since moisture-cure sealants cure with moisture in the air, it is suitable for application in damp and cold climates, as well as in dry climates. EverGuard® One-Part Pourable Sealant is solvent free, contains no isocyanates, and will not shrink upon curing. It does not "outgas" or bubble on damp surfaces as urethane sealants often do. EverGuard® One-Part Pourable Sealant is elastomeric and has excellent adhesion to most construction materials. It has a low durometer, which accommodates greater movement in penetration seals than typical urethane sealants.

Use

EverGuard® One-Part Pourable Sealant is designed for use with the EverGuard® Pourable Sealer Pocket on new and existing TPO roofs to seal irregular penetrations, such as metal frames, wires, and pipes. Note: EverGuard® TPO Primer is required to prime the TPO surface before use.

Advantages

- Solvent free – less than 25 g/L VOC
- 100% solid – will not shrink
- No outgassing on damp surfaces
- Self-leveling provides a smooth, professional finished look
- Good color stability
- 20-minute skinover time
- Paintable within 24 hours
- No special tools or mixing required
- Application at temperatures as low as 30°F (-1°C)



One-Part Pourable Sealant

TYPICAL PROPERTIES	
VOC (max)	<25 grams/liter
Service Temperature	-40°F (-40°C) to 200°F (93.3°C)
Full Cure	Rate of cure is dependent on atmospheric conditions. Curing proceeds at a rate of ¼" (6.35 mm) a week at 70°F (22°C) and 50% relative humidity. Lower temperature and humidity will slow the rate of cure. Higher temperature and humidity will accelerate rate of cure. Depths of more than 2" (51 mm) will cure through in 2 to 3 months.
Skin Time	Approximately 20 minutes at 70°F (22°C) and 50% relative humidity.
Shrinkage	0%
Tensile Strength	146 lbf (217 kg/m)
Elongation	300% ± 25%
Density	8.9 ± .2 lb. per gallon (1.068 g/ml)

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

gaf.com

EverGuard[®]TPO

SINGLE-PLY ROOFING SYSTEMS

Approvals & Certification

- Conforms to OTC Rule for Sealants and Caulks
- Meets requirements of California Regulations: CARB, BAAQMD, and SCAQMD
- Conforms to California Proposition 65
- Conforms to USDA Requirements for Non-food Contact

Environmental Standards

LEED[®] 2.2 for New Construction and Major Renovations:

- Low-Emitting Materials (Section 4.1) 1 Point

NAHB Model Green Home Building Guidelines:

- 5 Global Impact Points

VOC Content:

- Less than 25 grams/liter ASTM D2369 EPA Method 24 (tested at 240°F [115°C])

Application Temperature

EverGuard[®] One-Part Pourable Sealant can be applied at temperatures as low as 30°F (-1°C). In these colder temperatures, it is recommended to keep the material stored inside or in a truck before using.

Application Instructions

Surface should be clean, dry, and free of any loose materials. Remove all previously applied caulk, mastic, cement, and other contaminants from penetrations with a cleaner. All roof deck voids are to be filled with FlexSeal[™] Sealant. Prime all surfaces with EverGuard[®] TPO Primer. Allow primer to dry prior to applying EverGuard[®] One-Part Pourable Sealant. Fill the EverGuard[®] Pourable Sealer Pocket with EverGuard[®] One-Part Pourable Sealant to the top of the pocket, ensuring that all voids are filled. See GAF's published application and specifications manual for complete details.

Clean-up

Wet adhesive can be removed using a solvent, such as alcohol. Cured EverGuard[®] One-Part Pourable Sealant can be removed by abrading or scraping the substrate.

Cure Time

EverGuard[®] One-Part Pourable Sealant is a moisture-cure sealant. Rate of cure is dependent on atmospheric conditions. Curing proceeds at a rate of ¼" (6 mm) a week at 70°F (22°C) and 50% relative humidity. Lower temperature and humidity will slow the rate of cure. Higher temperature and humidity will accelerate

rate of cure. Depths of more than 2" (51 mm) will cure through in 2 to 3 months.

Packaging

- .053 gallon (2L) pouch
- 4 pouches/case
- 48 cases/pallet

Color

White

Storage

- Recommended storage is between 40°F–90°F (4°C–32.2°C). Store unopened containers in a cool, dry area. Protect unopened containers from water, heat, and direct sunlight. Although EverGuard[®] One-Part Pourable Sealant will not freeze, it is recommended to store indoors before using to ensure easy gunning and leveling.

Shelf Life

One year from date of manufacture when stored in recommended conditions. Elevated temperature and high relative humidity may significantly reduce shelf life.

Precautions

- Do not apply at temperatures below 30°F (-1°C).
- Do not use on TPO without EverGuard[®] TPO Primer.
- Do not use on Hypalon[®] membranes.
- Do not install if rain is anticipated within 4 hours.
- Do not use in areas subject to continuous water immersion.
- Do not use in areas where prolonged chemical exposure is anticipated.
- Do not prime bonding surfaces with asphalt primer.
- Use TOPCOAT[®] FlexSeal[™] Elastomeric Sealant as a "night sealant" around the base of the penetration. Do not use petroleum-based solvents, such as mineral spirits, for cleaning purposes.
- Maintain sealant at room temperature before applying to ensure easy gunning and leveling.
- Test and evaluate to ensure adequate adhesion.
- Dry all visible and standing water prior to applying sealant.

For Application Questions

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



EVERGUARD® TPO Accessory

TPO Accessories

Description

Used to clean exposed or contaminated seams prior to heat welding to remove any residual soap or revitalize aged membranes.

Application

- Do not use on "bag fresh" material that has been exposed for less than 12 hours unless it has been contaminated.
- Follow the guidance below for cleaning TPO:

Light Contamination — Membrane that has been exposed overnight or up to a few days to airborne debris, foot traffic, dew, or light precipitation can usually be cleaned with a white cloth moistened with EverGuard® TPO Cleaner. Be sure to wait for solvent to flash off prior to welding.

Dirt-Based Contamination — Membrane that is dirt encrusted will require the use of a low-residue cleaner, such as Formula 409®, and a mildly abrasive scrubbing pad to remove the dirt. This must be followed by cleaning with a white cloth moistened with EverGuard® TPO Cleaner. Be sure to wait for solvent to flash off prior to welding.



Seam Cleaner

Exposure-Based Contamination

— Membrane that is weathered or oxidized will require the use of EverGuard® TPO Cleaner and a mildly abrasive scrubbing pad to remove the weathered/oxidized top surface layer. This must be followed by cleaning with a white cloth moistened with EverGuard® TPO Cleaner. Unexposed membrane left in inventory for a year or more may need to be cleaned as instructed above. Be sure to wait for solvent to flash off prior to welding.

- VOC Content of 861 grams/liter.

SPECIFICATIONS	
Can size:	1 gallon
Cans per carton:	4
Weight per case:	33 lb. (14.96 kg)
Cases per pallet:	48
Product SKU	7793

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

Product Data Sheet

EverGuard® Sealants

Description

GAF EverGuard® single-ply roofing systems include a full line of EverGuard®/GAF sealants.

Note: EverGuard®/GAF sealants are specially formulated for specific applications: be sure to use the correct sealant for the application. The following EverGuard®/GAF sealants are available:

Product	Description	Benefit/Application	Units Per Carton	Carton Weight
EverGuard® Water Block	One-part butyl-based high-viscosity sealant	<ul style="list-style-type: none"> • Suitable for sealing between flashing membrane and substrate surface behind exposed termination bars • Suitable for sealing between roofing membrane and drain flanges 	25 10.5 oz. cartridges	13 lbs.
EverGuard® 2-Part Pourable Sealant	100% solids urethane-based two-part sealant	<ul style="list-style-type: none"> • Suitable for filling sealant pans at irregularly-shaped penetrations 	1 kit = 1 gal Part A and 1 pint Part B 2 kits per carton	18 lbs.
EverGuard® TPO & PVC Cut Edge Sealant	Sealant used at any non-factory edge of TPO and PVC membrane	<ul style="list-style-type: none"> • Used to seal non-factory edges (cut edges) as a final step in reinforced membrane installation • PVC Cut Edge with PVC • TPO Cut Edge with TPO 	<ul style="list-style-type: none"> • 12 pints/ctn. • 100 lineal feet per pint @ 1/8" diameter bead. 	12 lbs.

Storage:

- Store sealants in original containers on pallets or shelving in a dry area.
- Store sealants in 50-100°F conditioned area away from open flame or other combustion source.
- Do not allow to freeze.



EverGuard[®]TPO

SINGLE-PLY ROOFING SYSTEMS

TPO Bonding Adhesive

Description

EverGuard[®] 1121 Bonding Adhesive is a contact-type bonding adhesive specially designed for bonding TPO single-ply roofing membranes and flashings to various roofing substrates. EverGuard[®] 1121 Bonding Adhesive is a general purpose rubber-based bonding adhesive for attaching TPO-based single-ply membranes to various substrates, including polyisocyanurate insulation and gypsum-based cover boards.

Features and Benefits

- Excellent coverage up to 70 sq ft per gallon of bonded membrane
- Fast-drying solvent system
- Easy application using roller or brush
- Spray application also possible
- High initial tack

Physical Properties

Base: Synthetic polymer
Solvent: Hydrocarbon blend
Flash Point: 0°F (-18°C)
Weight/Gallon: 7.4 lbs
Color: Yellow
Viscosity: 2,300 - 2,700 cps
Coverage: 50-70 sq. ft./gallon

Total Solids: 25% +/- 2.5%
Voc: 611 grams/liter
Shelf Life: 1 year, unopened
Open Time: Up to 60 minutes
Dry Time: 5 - 15 minutes
Application: Roller, brush, or spray



1121 Bonding Adhesive

Ordering Information

Item Number: 77800OM

Packaging: 5 gallon pails

Weight: 37 lbs/pail

Shipping: 45 pails per pallet

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

gaf.com



OLYBOND500®

Roofing Adhesive

Equipment-Free Canister System

Description

OlyBond500® roofing adhesive equipment-free canister system is a two-component, low-rise polyurethane foam adhesive designed to adhere a variety of board stocks to most roof substrates in both new and reroof applications, including jobs that require multiple insulation layers. The equipment-free canister system can be used for securing fleece-back membrane.

Basic Use

- Offer fast start-up and shut-down for improved rooftop productivity.
- Can provide up to 24 squares of fleece-back membrane and up to 35 squares per set for insulation attachment, depending on the weather conditions and insulation type.
- Can be applied in temperatures ranging from 40°F to 100°F (4°C to 38°C) for year-round use.
- Comes with a disposable 25-foot (7.62 m) hose and gun assembly, six (6) mixing tips, and three (3) 17-in. (431.8 mm) tip extenders for a wide-reach radius on the roof.
- The gun assembly has a trigger lock to prevent accidental OlyBond500® dispensing.
- Does not require any additional application equipment, so there's nothing to maintain.
- Odor free, has ultra-low VOC levels, and can provide a highly productive application method for installing roofing materials.

Compatibility When Properly Prepared and Evaluated

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" [15.9 mm] thick min.)
- Smooth and granular surface BUR
- Smooth and granular surface modified bitumen
- Existing sprayed-in-place polyurethane foam (properly prepared)
- Base sheets
- Most vapor barriers (including asphaltic and fleece-top)

Roof Insulation and Cover Board:

- Expanded polystyrene
- Polyisocyanurate and HD polyisocyanurate
- High-density wood fiber
- Gypsum cover boards
- Perlite
- Certain extruded polystyrene

Any substrate or insulation not listed must be reviewed by OMG.
Call 800-633-3800.

Codes and Compliance



DESCRIPTION WEIGHT PACKAGING APPLICATORS

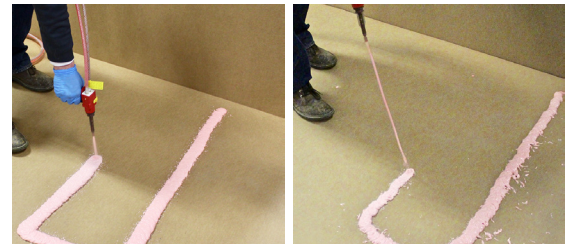
OlyBond500® Canister Part 1 (Hose/Gun/Six (6) Tips/Three (3) Tip Extenders) - 48 lb. (21.77 kg)
OlyBond500® Canister Part 2 - 38 lb. (17.24 kg)

Accessories - Optional

Gun and hose replacement kit - 5 lb. (2.27 kg)
Bag of Ten (10) Mixing Tips - 3 lb. (1.36 kg)
Ten (10) Mix Tip Extension Tubes - 2 lb. (0.91 kg)

Installation Method

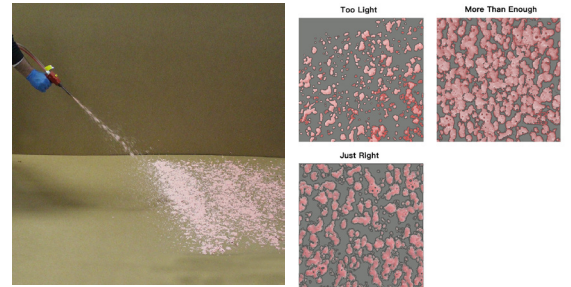
Insulation:



Without tip extension

With tip extension

Fleece-Back Membrane:



See application instructions for further details.

Partially used canisters:

- Turn the valves into their OFF position.
- Do not drain the chemical from the hoses.
- Slide the safety on the applicator gun into the LOCKED position.
- Remove the old nozzle, but do not throw away. Clean off the end of the gun to ensure the chemical exits are not obstructed. Apply fresh lubricant to the black rubber O-ring. Reattach the old nozzle, which, clogged with adhesive, will keep air and moisture out of the lines.
- Remaining contents must be dispensed within 30 days of the date of initial use.
- After every seven days without use, dispense a small amount of chemical to prevent crystallization from occurring in the hoses.
- Do not transfer used hoses to a new canister set in order to prevent cross-contamination.

KEEP ALL ADHESIVE CANISTERS OUT OF REACH OF CHILDREN.

Store at room temperature (60°– 90°F/16°– 32°C) in a dry area. Do not expose products to open flame or temperatures above 100°F (38°C).

Cylinders and contents must be brought to between 70°– 90°F (21°– 32°C) for use. This normally requires 36 to 72 hours at room temperature.

Manufactured by:



OlyBond® is a registered trademark of OMG, Inc.



ENERGYGUARD™

POLYISO INSULATION, 20 & 25 PSI (1 of 2)

Description

EnergyGuard™ Polyiso Insulation is made of glass fiber-reinforced cellulosic felt facers bonded to a core of polyisocyanurate foam. Available in 4' x 4' (1.21 m x 1.21 m) or 4' x 8' (1.21 m x 2.44 m) and in thicknesses ranging from 1" to 4.6" (25.4 mm - 116.8 mm).

Uses

- EnergyGuard™ Polyiso Insulation is designed for use over structural roof decks where R-values of 5.7 or higher are required, along with comprehensive UL and FM approvals.
- Meets FM 4450/4470 and UL1256/790/263.
- 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 membrane installation procedures.
- Meets ASTM C1289 Type II, Class 1, Grade 2 (20 psi), and available in Grade 3 (25 psi).

Advantages

- High insulation value — Excellent "LTTR" value compared to any other FM Class I rated products of equivalent thickness.
- Manufactured with EPA-compliant blowing agents.
- Lightweight — Lighter than most other insulating products offering comparable thermal resistance; as much as five times lighter in weight than many other materials with the same R-value.
- Excellent dimensional stability.
- Low water permeability — Lower overall perm rating than many conventional insulation boards.
- High moisture resistance and no capillarity; is stable and maintains its physical and insulating characteristics.
- Easier handling and faster to install — Because of its light weight, this material is easier to handle on the job site and installs faster. Easier cutting in the field provides the installer with simplified fabricating on the roof deck. Minimizes on-the-job damage.

Thermal and Physical Characteristics¹

Thickness*		LTTR (R-Value**)	Max. Flute Spanability	
Inches	mm		Inches	mm
1.0	25.4	5.7	2 5/8	66.7
1.1	27.9	6.3	2 5/8	66.7
1.2	30.5	6.8	2 5/8	66.7
1.3	33.0	7.4	2 5/8	66.7
1.4	35.6	8.0	4 3/8	111
1.5	38.1	8.6	4 3/8	111
1.6	40.6	9.1	4 3/8	111
1.7	43.1	9.7	4 3/8	111
1.75	44.5	10.0	4 3/8	111
1.8	45.7	10.3	4 3/8	111
1.9	48.3	10.8	4 3/8	111
2.0	51	11.4	4 3/8	111
2.1	53	12.0	4 3/8	111
2.2	56	12.6	4 3/8	111
2.3	58	13.2	4 3/8	111
2.4	61	13.8	4 3/8	111
2.5	64	14.4	4 3/8	111
2.6	66	15.0	4 3/8	111
2.7	69	15.6	4 3/8	111
2.8	71	16.2	4 3/8	111
2.9	74	16.8	4 3/8	111
3.0	76	17.4	4 3/8	111
3.1	79	18.0	4 3/8	111
3.2	81	18.6	4 3/8	111
3.25	83	18.9	4 3/8	111
3.3	84	19.2	4 3/8	111
3.4	86	19.9	4 3/8	111
3.5	89	20.5	4 3/8	111
3.6	91	21.1	4 3/8	111
3.7	94	21.7	4 3/8	111
3.8	97	22.3	4 3/8	111
3.9	99	23.0	4 3/8	111
4.0	102	23.6	4 3/8	111
4.1	104	24.2	4 3/8	111
4.2	106	24.9	4 3/8	111
4.3	109	25.5	4 3/8	111
4.4	112	26.1	4 3/8	111
4.5	114	26.8	4 3/8	111
4.6	116	27.1	4 3/8	111

*Other thicknesses available upon request.

**Long Term Thermal Resistance Values provide a 15-year time weighted average in accordance with CAN/ULC S770.

¹Note: Physical and thermal properties shown are based on data obtained under controlled laboratory conditions and are subject to normal manufacturing tolerances.

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

Code Compliance

(Statesboro, GA/
Gainesville, TX)

*Product certified at time of publication. Consult with manufacturer and the PIMA quality mark program directory on the PIMA website (www.pima.org).

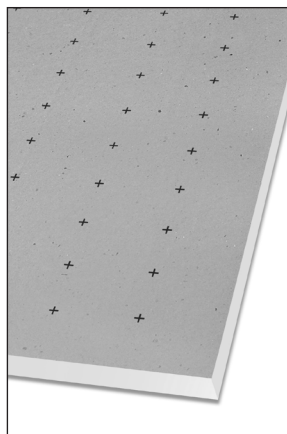
Typical Physical Properties

Property	Value	Test Method
Water Absorption, % by Volume — 2 hours (under 1" [25.4 mm] water)	1.5 max.	ASTM C209
Dimensional Stability Change, 7 days @158°F (70°C), 97% RH • Length + Width	<2%	ASTM D2126
Compressive Strength — psi (kPa)	25 (172) nom. Grade 3 20 (138) nom. Grade 2	ASTM D1621
Tensile Strength — psf (kPa)	≥ 500 (23.9)	ASTM C209
Moisture Vapor Transmission	<1.5 perm (85.8ng/Pa•s•m ²)	ASTM E96 (Procedure A)
Flame Spread ^{(1),(2)} Index	<75	ASTM E84
Service Temperature	-100 to 200°F (-73.3 to 93.3°C)	

⁽¹⁾Foam core only.

⁽²⁾These numerical ratings are not intended to reflect hazards presented by these or any other material under actual fire conditions.

EnergyGuard™
Polyiso Insulation





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

EnergyGuard™

TAPERED POLYISO INSULATION

Get The Longevity You Deserve Out Of Your Roof!

Tapered polyiso insulation provides a logical and economical answer for roofs that do not permit adequate positive drainage, like low-slope roofs. When correctly installed, tapered insulation helps eliminate problems due to ponding water and can extend the longevity of your low-slope roofing system.

GAF offers a full lineup of tapered panels to provide you with different options to help you create the best design for your roofing project.

- Meets ASTM C1289 Type II, Class 1, Grade 2 (20 psi) and in Grade 3 (25 psi)
- Also available with a coated glass facer.

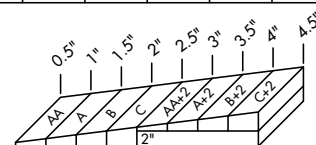
TAPERED PANELS – 4' x 4'

	BOARD STYLE	DIMENSIONS IN INCHES	AVERAGE THICKNESS	BD FEET PER PANEL
1/8"	AA	0.5" - 1"	0.75"	12
	A	1" - 1.5"	1.25"	20
	B	1.5" - 2"	1.75"	28
	C	2" - 2.5"	2.25"	36
	* D	2.5" - 3"	2.75"	44
	* E	3" - 3.5"	3.25"	52
	* F	3.5" - 4"	3.75"	60
1/4"	* FF	4" - 4.5"	4.25"	68
	X	0.5" - 1.5"	1"	16
	Y	1.5" - 2.5"	2"	32
	* Z	2.5" - 3.5"	3"	48
	* ZZ	3.5" - 4.5"	4"	64
	G	1" - 2"	1.5"	24
	H	2" - 3"	2.5"	40
1/2"	* I	3" - 4"	3.5"	56
	Q	0.5" - 2.5"	1.5"	24
	* QQ	2.5" - 4.5"	3.5"	56
	* XX	1" - 3"	2"	32
	* JJ	0.5" - 1.25"	0.875"	14
	* KK	1.25" - 2"	1.625"	26
	* LL	2" - 2.75"	2.375"	38
3/16"	* MM	2.75" - 3.5"	3.125"	50
	* J	1" - 1.75"	1.375"	22
	* K	1.75" - 2.5"	2.125"	34
	* L	2.5" - 3.25"	2.875"	46
	* M	3.25" - 4"	3.625"	58
	* SS	0.5" - 2"	1.25"	20
	* TT	2" - 3.5"	2.75"	44
3/8"	* S	1" - 2.5"	1.75"	28
	1	0.5" - .75"	0.625"	10
	2	.75" - 1"	0.875"	14
	3	1" - 1.25"	1.125"	18
	4	1.25" - 1.5"	1.375"	22
	5	1.5" - 1.75"	1.625"	26
	6	1.75" - 2"	1.875"	30
1/16"	* 7	2" - 2.25"	2.125"	34
	* 8	2.25" - 2.5"	2.375"	38

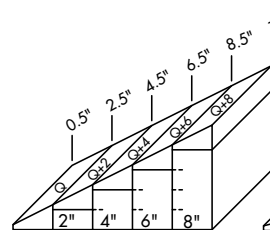
*Availability for these tapered panel systems may vary for each region.

TAPERED PANELS MATRIX

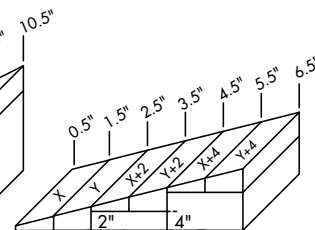
FT	1/8"	1/4"	1/2"	3/16"	3/8"	1/16"
4	1"	1.5"	2.5"	1.25"	2"	.75"
8	1.5"	2.5"	4.5"	2"	3.5"	1"
12	2"	3.5"	6.5"	2.75"	5"	1.25"
16	2.5"	4.5"	8.5"	3.5"	6.5"	1.5"
20	3"	5.5"	10.5"	4.25"	8"	1.75"
24	3.5"	6.5"	12.5"	5"	9.5"	2"
28	4"	7.5"	14.5"	5.75"	11"	2.25"
32	4.5"	8.5"	16.5"	6.5"	12.5"	2.5"
36	5"	9.5"	18.5"	7.25"	14"	2.75"
40	5.5"	10.5"	20.5"	8"	15.5"	3"
44	6"	11.5"	22.5"	8.75"	17"	3.25"
48	6.5"	12.5"	24.5"	9.5"	18.5"	3.5"
52	7"	13.5"	26.5"	10.25"	20"	3.75"
56	7.5"	14.5"	28.5"	11"	21.5"	4"
60	8"	15.5"	30.5"	11.75"	23"	4.25"
64	8.5"	16.5"	32.5"	12.5"	24.5"	4.5"
68	9"	17.5"	34.5"	13.25"	26"	4.75"
72	9.5"	18.5"	36.5"	14"	27.5"	5"
76	10"	19.5"	38.5"	14.75"	29"	5.25"
80	10.5"	20.5"	40.5"	15.5"	30.5"	5.5"



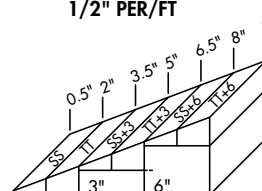
1/8" PER/FT



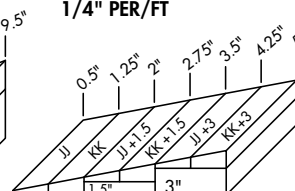
1/2" PER/FT



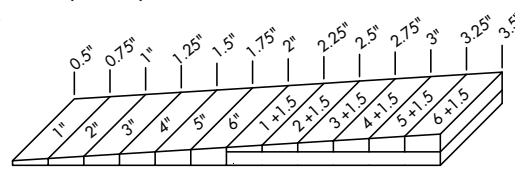
1/4" PER/FT



3/8" PER/FT



3/16" PER/FT



1/16" PER/FT

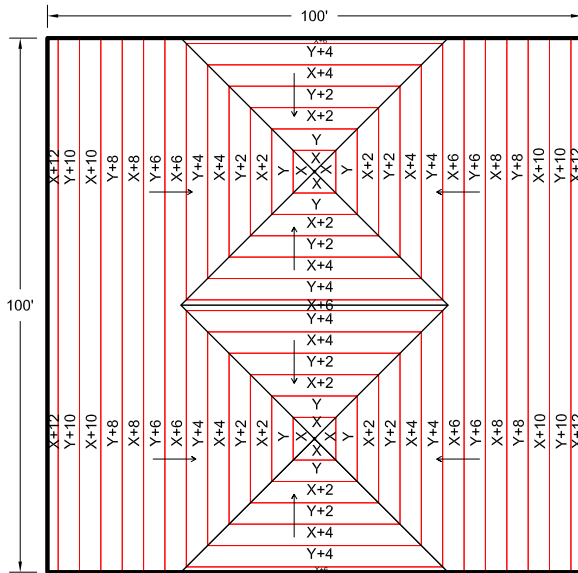
POLYISO INSULATION

Tapered Polyiso Foam Roof Insulation

How can **EnergyGuard™ Tapered Polyiso Insulation** help you to save on materials, adhesive, and more importantly labor?

Compare and see the savings!

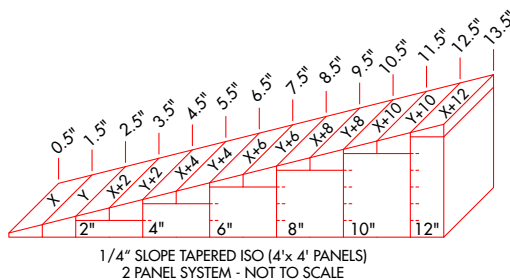
Traditional XY Panel Design



SECTION TAPERED PANELS:
X 0.500 - 1.500 396
Y 1.500 - 2.500 344

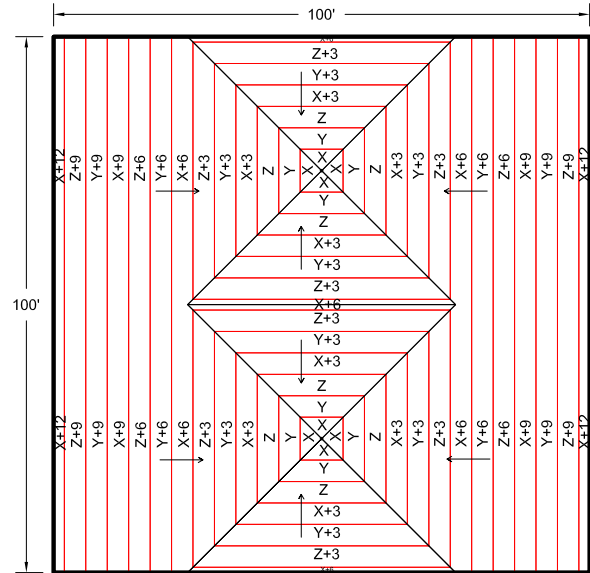
SECTION FILL PANELS:
2.000 1826

Tapered Area: 100 squares (10,000 square feet)
Total Squares of Material: 410.56
Total Squares of Application: 392.16



Vs.

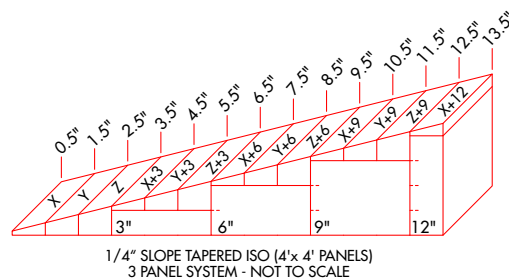
Extended Panel XYZ Panel Design



SECTION TAPERED PANELS:
X 0.500 - 1.500 281
Y 1.500 - 2.500 213
Z 2.500 - 3.500 245

SECTION FILL PANELS:
3.000 1105

Tapered Area: 100 squares (10,000 square feet)
Total Squares of Material: 295.68
Total Squares of Application: 276.96



An extended panel design requires up to approximately 30% less applied ISO which translates to up to approximately 30% less polyiso material handled and up to approximately 30% less adhesive, which results in less labor.

The GAF Tapered Design Group helps you save time with a fast and hassle-free service that assists you in creating a cost-effective tapered design system.



ENERGYGUARD™

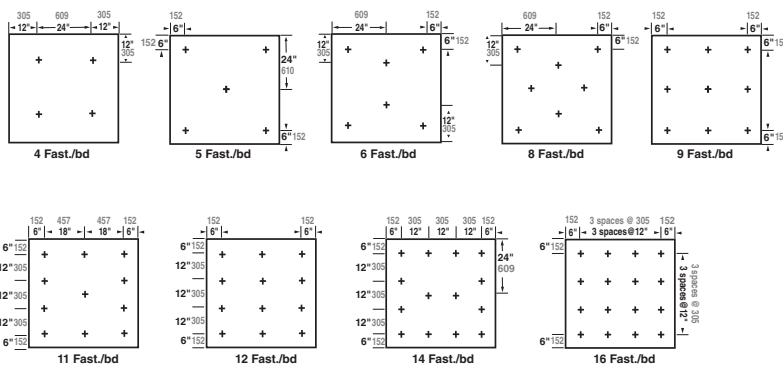
POLYISO INSULATION, 20 & 25 PSI (2 of 2)

Limitations and Potential Fire Hazard

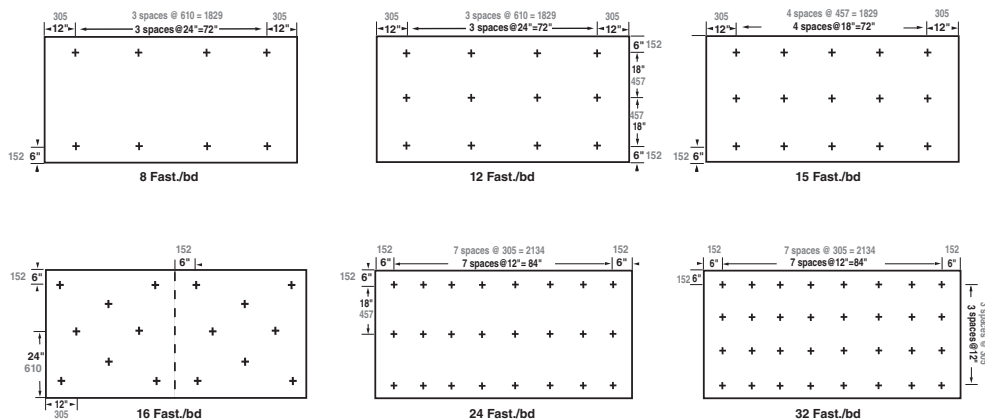
- EnergyGuard™ Polyiso Insulation is a non-structural, non load-bearing material. It is not designed for direct traffic usage unless adequately protected.
- EnergyGuard™ Polyiso Insulation should be stored protected from the elements. Bundle wrap is not for use as waterproofing for boards. No more insulation should be installed than can be completely covered with roofing on the same day.
- As unprotected polyisocyanurate will burn, fire safety precautions should be observed wherever insulation products are used.
- Direct mopping of modified bitumen roofing or built-up roofing (BUR) to EnergyGuard™ Polyiso Insulation is not approved.

Design Considerations – Suggested Insulation Fastener Patterns (NOTE: Measurements in GRAY are in millimeters)

4' x 4' (1220 x 1220) Boards



4' x 8' (1220 x 2440) Boards



NOTE: These patterns are for FM Approved decks utilizing appropriate FM Approved screws and insulation plates when installed per RoofNav. Consult FM Loss Prevention Data Sheets 1-29 for specific perimeter and corner fastening details. For proper attachment, fasteners must penetrate the flange or the metal deck a minimum of 3/4 inch (19.1 mm). Due to ongoing testing programs and changes in FM Global (FM) requirements, the number of fasteners and their placement are subject to change without notice. Consult RoofNav and FM Global Loss Prevention Data Sheets 1-28, 1-29, and 1-29R for approved fastener density for Polyisocyanurate Roof Insulations. If your fastener pattern is not listed, please contact Technical Services at 1-800-766-3411.



USG SECUROCK® BRAND

Gypsum-Fiber Roof Board (1 of 2)

Description

USG Securock® Brand Gypsum-Fiber Roof Board is a high-performance roof board for use in low-slope roofing systems. Its unique fiber-reinforced, homogenous composition gives the panel strength and water resistance through to the core. USG Securock Gypsum-Fiber Roof Board provides exceptional bond and low absorption in adhered systems, and its homogenous composition achieves high wind-uplift ratings with no risk of facer delamination. Made from 97% pre-consumer recycled materials, USG Securock Gypsum-Fiber Roof Board combines superior performance with sustainable design for all types of roofing systems, including single-ply, fluid-applied, built-up, spray foam, metal, and modified bitumen roofing.

Advantages

- Exceptional Strength... Engineered to provide superior wind-uplift performance for a wide variety of roof assemblies. USG Securock Gypsum-Fiber Roof Board has uniform composition, providing enhanced bond strength of membrane systems with reduced risk of facer delamination.
- Fire Performance... Provides excellent fire performance and demonstrates exceptional surface-burning characteristics (ASTM E84 [CAN/ULC-S102] Flame Spread 5, Smoke Developed 0).
- Moisture and Mold... Uniform water-resistant core ensures excellent moisture and mold resistance. Scored a maximum "10" for mold resistance on ASTM D3273.
- Versatile... Can be used as a component in single-ply, fluid-applied, built-up, spray foam, metal, and modified bitumen roofing.
- Sustainability... Made from 97% pre-consumer recycled materials and has earned independent certification from Scientific Certification Systems for this achievement.
- Consult roofing manufacturers for specific instructions on the application of their products to USG Securock Gypsum-Fiber Roof Board.
- Weather conditions, dew, application temperature, installation techniques, and moisture drive can have adverse effects on the performance of the roof system and are beyond the control of USG.
- Keep USG Securock Gypsum-Fiber Roof Board panels dry before, during, and after installation. USG Securock Gypsum-Fiber Roof Board should not be installed during rain, heavy fog, or any other condition that deposits moisture on the surface of the board. Apply only as much USG Securock Gypsum-Fiber Roof Board that can be covered by final roof membrane system in the same day. Avoid exposure to moisture from leaks or condensation.
- For reroof or re-cover applications, existing roofing system must be dry throughout prior to application of USG Securock Gypsum-Fiber Roof Board.
- Plastic or poly packaging applied at the plant to protect board during rail or other transit should be removed upon receipt to prevent condensation or trapping of moisture, which may cause application problems.
- USG Securock Gypsum-Fiber Roof Board should be stored flat and off the ground with protection from the weather. If stored outdoors, a breathable waterproof covering should be used.
- When applying solvent-based adhesives or primers, allow sufficient time for the solvent to evaporate to avoid damage to roofing components.
- USG allows the bonding of cold mastic modified bitumen and torching directly to the surface. Consult with the system manufacturer for recommendations on this application.
- USG recommends maximum asphalt application temperature for Type III asphalt of 455°F (235°C) when using USG Securock Gypsum-Fiber Roof Board. Application temperatures above these recommended temperatures may adversely affect roof system performance.

Limitations

- USG Securock Gypsum-Fiber Roof Board is engineered to perform within a properly designed roof system. The use of USG Securock Gypsum-Fiber Roof Board as a roofing component is the responsibility of the design professional.

Manufactured by:



The trademarks USG, Securock®, the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates.



USG SECUROCK® BRAND

Gypsum-Fiber Roof Board (2 of 2)

Installation

Refer to roof system manufacturer's written instructions, local code requirements, and Factory Mutual Global (FMG) and/or Underwriters Laboratories (UL) requirements for proper installation techniques.

- Use fasteners specified in accordance with above requirements. Install approved fasteners with plates into the USG Securock® Brand Gypsum-Fiber Roof Board, flush with the surface. Fasteners should be installed in strict compliance with the roof system manufacturer's installation recommendations and FMG Loss Prevention Data Sheet 1-29. Proper fastener spacing is essential to achieve wind-uplift performance.

Fire Performance

UL Classified as to Surface Burning Characteristics and Non-Combustibility in accordance with ASTM E84 (CAN/ULC-S102).

- Spread 5 and Smoke Developed 0
- 1/4" (6.35 mm), 3/8" (9.53 mm), 1/2" (12.7 mm), and 5/8" (15.9 mm) thickness — Class A in accordance with UL790 (CAN/ULC-S107). See the UL Building Materials Directory for more information.
- 5/8" (15.9 mm) thickness — Meets requirements of Type X per ASTM C1278 and may be used in P series designs as a thermal barrier.

System Performance

FM Approved

- Complies with requirements of FM 4450 and FM 4470
- Meets FM Class 1

Standards Compliance

USG Securock Gypsum-Fiber Roof Board is manufactured to conform to ASTM C1278, "Standard Specification for Fiber-Reinforced Gypsum Panel."

PHYSICAL PROPERTIES				
	1/4" (6.35 mm)	3/8" (9.53 mm)	1/2" (12.7 mm)	5/8" (15.9 mm)
Width, standard	4' (1.21 m)	4' (1.21 m)	4' (1.21 m)	4' (1.21 m)
Length, standard	4' (1.21 m) 8' (2.44 m)	4' (1.21 m) 8' (2.44 m)	4' (1.21 m) 8' (2.44 m)	4' (1.21 m) 8' (2.44 m)
Pieces per unit for 4' x 8' (1.21 m x 2.44 m) sheets	50	40	30	24
Weight, nom. lbs./unit 4' x 8' (1.21 m x 2.44 m) sheets	2,575 (1,168 kg)	2,575 (1,168 kg)	2,725 (1,236 kg)	2,525 (1,145 kg)
Weight, nom. lbs./sq. ft.	1.57 (7.66 kg/m ²)	1.96 (9.57 kg/m ²)	2.76 (13.47 kg/m ²)	3.20 (15.62 kg/m ²)
Flexural strength, parallel, lbs. min., per ASTM C473	40 (18.14 kg)	70 (31.75 kg)	110 (50 kg)	161 (73 kg)
Compressive strength, psi nominal	1800	1800	1800	1800
Flute spannability per ASTM E661	2 5/8" (66.7 mm)	5" (127 mm)	8" (203 mm)	10" (254 mm)
Permeance, perms, per ASTM E96	30	26	26	24
R-Value per ASTM C518	0.2	0.3	0.5	0.6
Coefficient of thermal expansion, inches/inch • -6°F/-21.1°C, per ASTM E831	8" x 10" (203 mm x 254 mm)	8" x 10" (203 mm x 254 mm)	8" x 10" (203 mm x 254 mm)	8" x 10" (203 mm x 254 mm)
Linear variation with change in moisture, inches/inch • %RH, per ASTM D1037	8" x 10" (203 mm x 254 mm)	8" x 10" (203 mm x 254 mm)	8" x 10" (203 mm x 254 mm)	8" x 10" (203 mm x 254 mm)
Water absorption, % max, per ASTM C473	10	10	10	10
Surface water absorption, nominal grams, per ASTM C473	1.6	1.6	1.6	1.6
Mold resistance per ASTM D3273*	10	10	10	10
Bending Radius	25' (7.62 m)	25' (7.62 m)	25' (7.62 m)	30' (9.14 m)

*ASTM D3273 Mold Resistance Testing – In independent lab tests conducted on USG Securock® Brand Gypsum-Fiber Roof Board and Securock Glass-Mat Roof Board at the time of manufacture per ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber, both panels scored a 10. The ASTM lab test may not accurately represent the mold performance of building materials in actual use. Given unsuitable project conditions during storage, installation, or after completion, any building material can be overwhelmed by mold. To manage the growth of mold, the best and most cost-effective strategy is to protect building products from water exposure during storage and installation and after completion of the building. This can be accomplished by using good design and construction practices.



EverGuard® DIAMOND PLEDGE™ NDL ROOF GUARANTEE

No. _____



OWNER: _____ PERIOD OF COVERAGE: _____ YEARS

NAME AND TYPE OF BUILDING: _____

ADDRESS OF BUILDING: _____

ROOF SPECIFICATION: _____ AREA OF ROOF: _____ SQUARES

APPLIED BY: _____

DATE OF COMPLETION: _____ GUARANTEE EXPIRATION DATE: _____

THE GUARANTEE/SOLE AND EXCLUSIVE REMEDY

GAF guarantees to you, the owner of the building described above, that GAF will provide “Edge To Edge” protection by repairing leaks through the GAF roofing membrane, liquid-applied membrane or coating, base flashing, high wall waterproofing flashing, insulation, expansion joint covers, prefashed accessories, and metal flashings used by the contractor of record that meet SMACNA standards (the “GAF Roofing Materials”) resulting from a manufacturing defect, ordinary wear and tear, or workmanship in applying the GAF Roofing Materials. There is no dollar limit on covered repairs. Leaks caused by any non-GAF materials, such as the roof deck or non-GAF insulation, are not covered.

GUARANTEE PERIOD

This guarantee ends on the expiration date listed above. **NOTE:** Lexsuco® flashings are covered by this guarantee **ONLY** for the first ten years.

OWNER RESPONSIBILITIES

Notification of Leaks

In the event of a leak through the GAF Roofing Materials, you **MUST** make sure that GAF is notified directly about the leak, in writing, within **30 days** by email (preferred) at guaranteeleak@gaf.com or by postal mail to GAF Guarantee Services, 1 Campus Drive, Parsippany, NJ 07054, or GAF will have no responsibility for making repairs. **NOTE:** The roofing contractor is **NOT** an agent of GAF; notice to the roofing contractor is **NOT** notice to GAF.

By notifying GAF, you authorize GAF 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.

Preventative Maintenance and Repairs

- A. You must perform regular inspections and maintenance and keep records of this work.
- B. To keep this guarantee in effect, you must repair any conditions in the building structure or roofing system that are not covered by this guarantee but that GAF concludes may be threatening the integrity of the GAF Roofing Materials. Any such repairs must be performed by a GAF-certified roofing contractor. Failure to make timely repairs may jeopardize guarantee coverage.
- C. 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 GAF Roofing Materials.
- D. Any equipment or material that impedes any inspection or repair must be removed at your expense so that GAF can perform inspections or repairs.

EXCLUSIONS FROM COVERAGE

(e.g., items that are not “ordinary wear and tear” or are beyond GAF’s control)

This guarantee does **NOT** cover conditions other than leaks. This guarantee also does **NOT** cover leaks caused by any of the following:

- 1. Inadequate roof maintenance, that is, the failure to follow the Scheduled Maintenance Checklists provided with this guarantee (extra copies available by calling Guarantee Services at 1-800-ROOF-411) or the failure to repair owner responsibility items.
 - 2. Unusual weather conditions or natural disasters including, but not limited to, winds in excess of 55 miles per hour, hail, floods, hurricanes, lightning, tornados, and earthquakes, unless specifically covered by an addendum to this guarantee.
 - 3. Impact of foreign objects or physical damage caused by any intentional or negligent acts, accidents, misuse, abuse or the like.
 - 4. Damage to the roof constructed of the GAF Roofing Materials due to:
 - (a) movement, cracking, or other failure of the roof deck or building;
 - (b) improper installation or failure of any non-GAF insulation or materials;
 - (c) condensation or infiltration of moisture through or around the walls, copings, building structure, or surrounding materials except where high wall GAF waterproofing flashings
- are installed; (d) chemical attack on the membrane, including, but not limited to, exposure to grease or oil; (e) the failure of wood nailers to remain attached to the structure; (f) use of materials that are incompatible with the GAF Roofing Materials; or (g) architectural, engineering, or design defects or flaws.
 - 5. Traffic of any nature on the roof unless using GAF walkways applied in accordance with GAF’s published application instructions.
 - 6. Blisters in the GAF Roofing Materials that have not resulted in leaks.
 - 7. Changes in the use of the building or any repairs, modifications, or additions to the GAF Roofing Materials after the roof is completed, unless approved in writing by GAF.
 - 8. Exposure to sustained high-temperature conditions; however, for systems utilizing EverGuard Extreme® TPO membrane, exposure in excess of 195°F.

No representative, employee, or agent of GAF, or any other person, has the authority to assume any additional or other liability or responsibility for GAF, unless it is in writing and signed by an authorized GAF Field Services Manager or Director. GAF does not practice engineering or architecture. Neither the issuance of this guarantee, nor any review of the roof constructed of the GAF Roofing Materials (or the plans for the roof), by GAF shall constitute any warranty of such plans, specifications or construction or the suitability or code compliance of the GAF Roofing Materials for any particular structure. **NOTE:** Any inspections made by GAF are limited to a surface inspection only, are for GAF’s sole benefit, and do not constitute a waiver or extension of any of the terms and conditions of this guarantee.

This guarantee **MAY BE SUSPENDED OR CANCELLED IF THE ROOF IS DAMAGED BY** any cause listed above as **AN EXCLUSION FROM COVERAGE** that may affect the integrity or watertightness of the roof.

TRANSFERABILITY

You may transfer or assign this guarantee to a subsequent owner of this building for the remaining term only if: 1) the request is in writing to GAF at the address listed below within 60 days after ownership transfer; 2) you make any repairs to the GAF Roofing Materials or other roofing or building components that are identified by GAF after an inspection as necessary to preserve the integrity of the GAF Roofing Materials; and 3) you pay an assignment fee of \$500. This guarantee is **NOT** otherwise transferable or 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 WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, and of any other obligations or liability of GAF, whether any claim against it is based upon negligence, breach of warranty, or any other theory. In **NO** event shall GAF 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: GAF shall have no obligation under this guarantee unless and until 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.

This guarantee must have a raised seal to be valid.

GAF
1 Campus Drive
Parsippany, NJ 07054

By: _____
Authorized Signature Date



EverGuard® Diamond Pledge™ NDL Roof Guarantee With True “Edge-To-Edge” Coverage

Important Information On Your Guarantee Coverage...

Congratulations on selecting a GAF EverGuard® Diamond Pledge™ NDL Roof Guarantee. GAF is proud to provide you with extraordinary guarantee coverage for your new roofing system.

- The EverGuard® Diamond Pledge™ NDL Roof Guarantee provides you with comprehensive system protection so that if your new GAF roofing system leaks from a manufacturing defect or workmanship error, the costs of repair are 100% covered (see your *EverGuard® Diamond Pledge™ NDL Roof Guarantee* for complete coverage and restrictions).

First, let's understand the responsibilities of ownership...

- It's common sense... if you own something and you want it to perform, you have to maintain it. After all, you wouldn't expect...
 - a smoke alarm to go off with a dead battery
 - your furnace to perform efficiently if you never changed the filter
 - your car to run if you never changed the oil

Your new roof is no exception.

Simply put... maintenance is a responsibility of ownership. Without basic maintenance, your assets will diminish in value. With basic maintenance, you can preserve them and enjoy years of reliable service.

Your new roof is protected by the extraordinary EverGuard® Diamond Pledge™ NDL Roof Guarantee coverage, plus you may be eligible for the added benefits of...

- **Up to 25% of additional duration... with the WellRoof® Guarantee Extension¹**

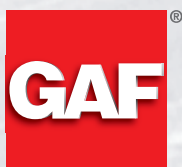
We've put together a program designed to help reduce the risk of the unexpected expense and unnecessary disruption that may occur if your roof leaks.

The WellRoof® Guarantee Extension can add up to 25% additional duration to your EverGuard® Diamond Pledge™ NDL Roof Guarantee coverage, when you maintain your roof with the services of a **GAF Certified Maintenance Professional**.

Protect your asset and get longer protection from your guarantee with **The WellRoof® Guarantee Extension** and a maintenance program you can trust, executed by a GAF Certified Maintenance Professional. Call 1-800-ROOF-411 or visit gaf.com for information about a Certified Maintenance Professional in your area.

Need more info on saving money with a roof maintenance program? See the WellRoof® Brochure at gaf.com.

¹ See the *WellRoof® Guarantee Extension* for complete coverage and restrictions.



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

gaf.com



PAC-CLAD®

P E T E R S E N

A **CARLISLE** COMPANY



FOREST GREEN



HARTFORD GREEN



▲ MILITARY BLUE



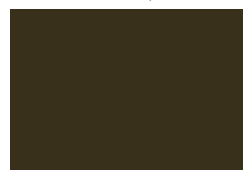
BERKSHIRE BLUE



▲ PACIFIC BLUE
(FKA Slate Blue)



AWARD BLUE



▲ AGED BRONZE



▲ MEDIUM BRONZE



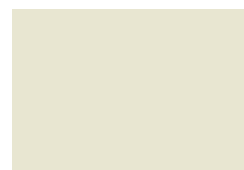
▲ CARDINAL RED



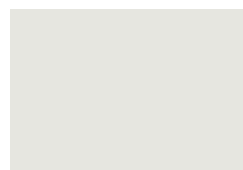
▲ COLONIAL RED



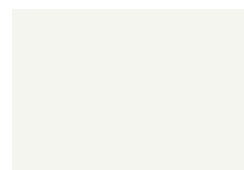
▲ SANDSTONE



▲ ALMOND



▲ STONE WHITE



▲ BONE WHITE

Color Guide

PAC-CLAD.COM

Premium Colors

 ●▲👑\$\$ ANODIC CLEAR	 ●▲👑\$\$ SILVERSMITH
 ●▲👑\$ SILVER	 ●▲👑\$ CHAMPAGNE
 ●▲👑\$ ZINC	 ●▲👑\$ WEATHERED ZINC
 ●▲👑\$ COPPER PENNY	 ●▲👑\$ AGED COPPER
 👑\$\$ WEATHERED STEEL	 👑\$\$ WEATHERED COPPER

Kynar 500® or Hylar 5000® pre-finished steel and aluminum for roofing, curtainwall and storefront applications.

● Metallic Colors \$ Pricing ▲ Cool Colors 👑 Premium Colors

See back for color availability chart.

Standard Colors

 ▲ PATINA GREEN	 ▲ TEAL	 ▲ HEMLOCK GREEN	 ▲ FOREST GREEN	 ▲ HARTFORD GREEN
 ▲ EVERGREEN	 ▲ HUNTER GREEN	 ▲ ARCADIA GREEN	 ▲ MILITARY BLUE	 ▲ BERKSHIRE BLUE
 ▲ GRAPHITE	 ▲ CHARCOAL	 ▲ INTERSTATE BLUE	 ▲ PACIFIC BLUE (fka Slate Blue)	 ▲ AWARD BLUE
 ▲ MATTE BLACK STEEL	 ▲ BLACK ALUMINUM	 ▲ DARK BRONZE	 ▲ BURNISHED SLATE	 ▲ AGED BRONZE
 ▲ MANSARD BROWN	 ▲ BURGUNDY	 ▲ TERRA COTTA	 ▲ CARDINAL RED	 ▲ COLONIAL RED
 ▲ MIDNIGHT BRONZE	 ▲ MUSKET GRAY	 ▲ SIERRA TAN	 ▲ SANDSTONE	 ▲ ALMOND
 ▲ SLATE GRAY	 ▲ CITYSCAPE	 ▲ GRANITE	 ▲ STONE WHITE	 ▲ BONE WHITE



PAC-CLAD.COM

IL: 800 PAC CLAD TX: 800 441 8661 MD: 800 344 1400
AZ: 833 750 1935 GA: 800 272 4482 WA: 253 501 2450

PAC-CLAD® Color Availability

PAC-CLAD STANDARD COLORS	REFLECTIVITY	EMISSIONITY	3 YEAR EXPOSURE	SRI	STEEL		ALUMINUM				20-IN. COIL	
					24 GA.	22 GA.	.032	.040	.050	.063	24 GA.	.032
AGED BRONZE	0.29	0.87	0.27	29	✓							
ALMOND	0.56	0.86	0.55	65	✓	✓	✓	✓	✓		✓	
ARCADIA GREEN	0.29	0.87	0.29	29	✓		✓					
AWARD BLUE***	0.24	0.86	0.23	22	✓		✓		✓			
BERKSHIRE BLUE*	0.30	0.87	0.27	31	✓							
BLACK ALUMINUM**	0.04	0.89	0.04	-2			✓	✓	✓	✓		
BONE WHITE	0.70	0.86	0.69	85	✓	✓	✓	✓	✓	✓	✓	✓
BURGUNDY	0.14	0.85	0.13	9	✓		✓		✓			
BURNISHED SLATE	0.32	0.87	0.31	33	✓							
CARDINAL RED***	0.44	0.86	0.44	49	✓		✓		✓			
CHARCOAL	0.30	0.86	0.30	30	✓		✓	✓	✓		✓	✓
CITYSCAPE	0.49	0.86	0.50	56	✓	✓	✓	✓	✓		✓	✓
COLONIAL RED	0.31	0.86	0.31	31	✓		✓	✓	✓			
DARK BRONZE	0.29	0.86	0.29	29	✓	✓	✓	✓	✓	✓	✓	✓
EVERGREEN	0.28	0.86	0.26	27	✓		✓					
FOREST GREEN	0.10	0.86	0.10	4	✓	✓	✓	✓	✓			
GRANITE*	0.33	0.87	0.33	34	✓	✓	✓	✓	✓			
GRAPHITE	0.29	0.87	0.28	29	✓							
HARTFORD GREEN	0.08	0.88	0.08	3	✓		✓	✓	✓			
HEMLOCK GREEN	0.31	0.87	0.30	32	✓		✓		✓			
HUNTER GREEN	0.28	0.86	0.27	27	✓		✓					
INTERSTATE BLUE	0.16	0.87	0.15	12	✓		✓		✓			
MANSARD BROWN	0.31	0.86	0.31	31	✓	✓	✓	✓	✓			
MATTE BLACK STEEL**	0.26	0.86	0.25	25	✓	✓					✓	
MEDIUM BRONZE	0.30	0.87	0.29	31	✓	✓	✓	✓	✓	✓	✓	✓
MIDNIGHT BRONZE	0.06	0.87	0.06	0	✓			✓				
MILITARY BLUE	0.31	0.86	0.30	31	✓		✓					
MUSKET GRAY	0.32	0.86	0.31	33	✓	✓	✓		✓			
PACIFIC BLUE	0.28	0.86	0.27	27	✓		✓					
PATINA GREEN	0.33	0.86	0.32	34	✓		✓					
SANDSTONE	0.48	0.86	0.48	54	✓	✓	✓	✓	✓	✓	✓	✓
SIERRA TAN	0.32	0.82	0.31	31	✓	✓	✓	✓	✓		✓	
SLATE GRAY	0.38	0.86	0.37	41	✓	✓	✓	✓	✓		✓	✓
STONE WHITE	0.69	0.86	0.67	84	✓	✓	✓	✓	✓	✓	✓	✓
TEAL	0.32	0.86	0.32	33	✓		✓					
TERRA COTTA	0.34	0.87	0.33	36	✓		✓		✓		✓	✓
PAC-CLAD PREMIUM COLORS												
AGED COPPER	0.55	0.80	0.53	62	✓		✓					
ANODIC CLEAR	0.32	0.83	0.31	31				✓				
CHAMPAGNE	0.50	0.85	0.49	57	✓		✓	✓	✓			
COPPER PENNY	0.52	0.81	0.52	58	✓		✓	✓	✓		✓	
SILVER	0.47	0.87	0.46	53	✓	✓	✓	✓	✓		✓	✓
SILVERSMITH	0.32	0.88	0.32	34				✓				
WEATHERED COPPER	0.45	0.88	N/A	51	✓							
WEATHERED STEEL	0.32	0.89	N/A	34	✓							
WEATHERED ZINC	0.48	0.82	0.46	53	✓	✓	✓		✓			
ZINC	0.42	0.82	0.38	45	✓		✓	✓	✓			
CLEAR-COAT ACRYLIC FINISH (NON-KYNAR)												
GALVALUME PLUS	0.68	0.14	0.55	57	✓	✓					✓	

PAC-CLAD Premium finishes are available from stock at a moderate extra cost. PAC-CLAD Copper Penny is a Non-Weathering finish. Solar Reflectance Index calculated according to ASTM E-1980.

*Low Gloss/Low Sheen, 70% PVDF finish ** Appearance differs for Black Aluminum and Matte Black Steel *** 10-year finish warranty

TECHNICAL DATA FOR KYNAR 500/HYLAR 5000 COATING:

- ▶ South Florida Exposure: Color (ASTM D 2244) - No more than 5ΔE Hunter units at 20 years; Chalk (ASTM D 4214) – Rating no less than 8 at 20 years; Film integrity – 20 years.
- ▶ Accelerated Weathering (ASTM D 4587, ASTM G 154): 5000 Hours; Chalk, per ASTM D 4214, rating of 6 or better; Color, per ASTM D 2244, < 5ΔE (Hunter Units) color change.
- ▶ Humidity Resistance (ASTM D 2247): Galvalume or HDG, 100% RH, 2000 hours – No field blisters; Aluminum, 100% RH,

- 3000 hours – No field blisters
- ▶ Salt Spray Resistance (ASTM B 117): Aluminum: 3000 hours, creep from scribe no more than 1/16" (2mm), no field blisters. Galvalume or HDG: 2000 hours, creep from scribe no more than 1/8" (4mm), no field blisters
- ▶ Chemical/Acid Pollution Resistance (ASTM D 1308): Pass
- ▶ T-Bend (ASTM D 4145): 1T – 3T with no loss of adhesion
- ▶ Pencil hardness (ASTM D 3363): HB – 2H
- ▶ Specular Gloss (ASTM D 523) @ 60 degrees: Typical – 20 – 35
- ▶ Abrasion Resistance (ASTM D 968): 80 Liters/Mil +/- 5 Liters

- ▶ Cross Hatch Adhesion (ASTM D 3359): No loss of adhesion
- ▶ Reverse Impact (ASTM D 2794): Galvalume or HDG, 2x metal thickness inch-pounds, no loss of adhesion; Aluminum, 1.5x metal thickness inch-pounds, no loss of adhesion
- ▶ Flame Test (ASTM E 84): Class A Coating