

# GAF EverGuard<sup>®</sup> PVC

Single-Ply Roofing Systems

When your roof protects mission-critical processes or assets, count on the tested performance and proven longevity of EverGuard<sup>®</sup> PVC or PVC KEE roofing systems.



We protect what matters most<sup>™</sup>



# How critical is your building to the success of your enterprise?

Would even temporary failure of your roof interrupt critical processes and assets? Whether your building protects patients, students, sensitive manufacturing facilities, pharmaceuticals, electronic equipment, or other mission-critical responsibilities, an EverGuard® PVC or PVC KEE Roofing System will provide the tested performance, industry-leading training you can count on, and guarantees up to 30 years for qualified systems.\*

## PVC Highlights

- High flexibility — great for difficult contours
- Increased protection against chemicals compared to other single-ply membranes†
- Excellent seam strength
- Excellent long-term weathering, fungi, and UV resistance
- Enhanced fire protection exhibited as Class A when tested in accordance with ASTM E108
- Potential cooling costs‡ thanks to a highly reflective and emissive white surface (White membranes only)
- Easy to install

\* For complete coverage and restrictions, refer to the full limited warranty or guarantee document.

† GAF warranties and guarantees do not provide coverage against chemical exposure or exposure to grease, animal fats, and jet fuel. Refer to sample warranties and guarantees for more information on warranty and guarantee coverage and restrictions.

‡ Energy cost savings are not guaranteed and the amount of savings may vary based on climate zone, utility rates, radiative properties of roofing products, insulation levels, HVAC equipment efficiency, and other factors.

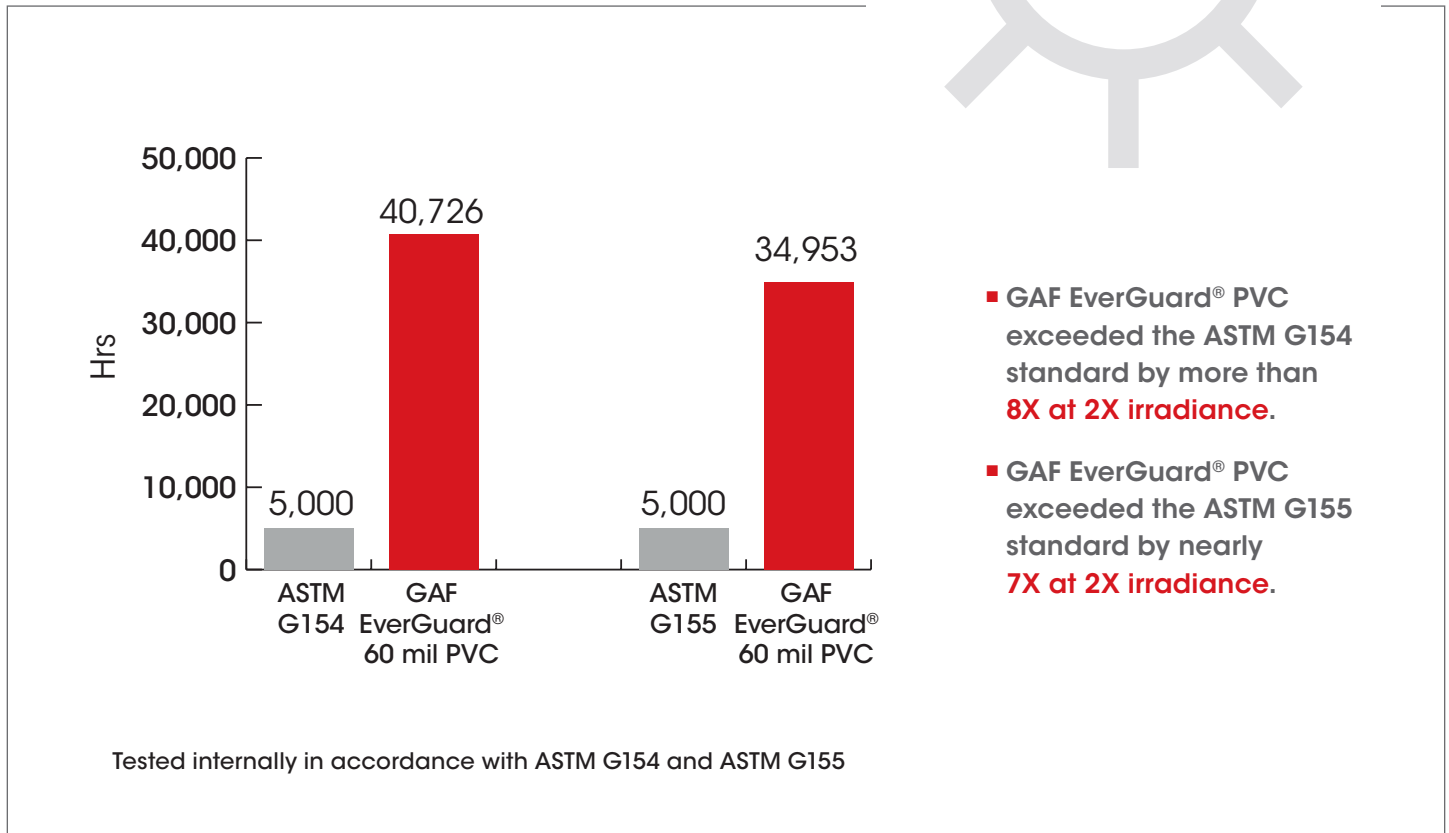
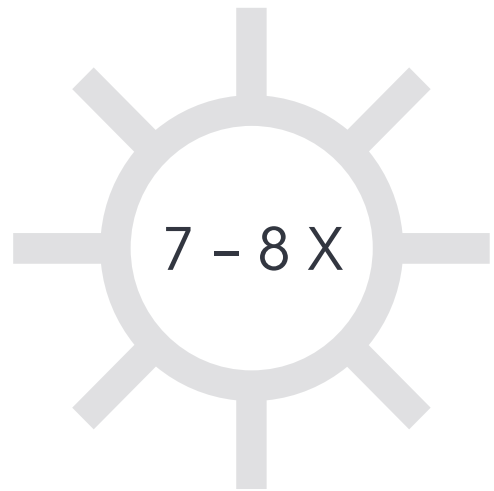
# Tested performance

EverGuard® PVC (polyvinyl chloride) single-ply roofing membrane offers proven performance including durability, seam strength, long-term weathering, UV resistance, mold resistance, and increased protection against chemicals\*.

## Weathering and the importance of the right UV additives

GAF incorporates UV additives in the formulation of the cap layer to protect our PVC and PVC KEE membranes from the damaging effects of ultraviolet radiation.

Tests show the blend of choice and loading of these additives help EverGuard® PVC and PVC KEE membranes exceed the relevant ASTM standards by a significant margin.



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## Fungi & the importance of biocides

GAF EverGuard® PVC and PVC KEE membrane have optimized UV/AO and biocide loading in the cap layer, resulting in membranes that effectively resist fungal growth. Third-party testing in real world outdoor conditions (3-year in Tampa by PRI) show the fungi resistance of our PVC and PVC KEE membranes helps maintain a reflective, easy-to-clean surface. Why is that important?

By helping the EverGuard® PVC and EverGuard® PVC KEE roofs remain clean, the biocide also helps prevent the accelerated roof degradation mold can cause.

Primarily, that means potentially lower energy costs due to higher solar reflectivity. Specifically:

- According to published CRRRC data, EverGuard® PVC KEE White achieved CRRRC 3-year SR/SRI ratings (0.78/96) as well as top tier 3-year thermal emittance (0.87) (CRRRC Listing: 0676-0135a)
- EverGuard® PVC White maintained a 3-year SRI of 0.93. It also helps protect the roof asset in a number of ways (CRRRC Listing: 0676-0090):
  - **Less staining/discoloration of the membrane**
  - **Lower risk of localized weakening of the membrane**
  - **Lower membrane cleaning costs**

### Mold & Fungus Resistance†: Biocide Additive Testing



**Unaged**



**3 years of Tampa, FL outdoor exposure**



**Cleaned with soap and water.**



† GAF warranties and guarantees do not provide coverage against dirt, mold, mildew, or other biological growth. Refer to [gaf.com](http://gaf.com) for more information on warranty and guarantee coverage and restrictions.

# Quality components for reliable performance



## Non-wicking polyester reinforcement

PVC/PVC KEE membranes primarily utilize either fiberglass or polyester reinforcement between the cap and core layers.

While a handful of manufacturers prioritize the dimensional stability of fiberglass reinforcement, GAF EverGuard® PVC and PVC KEE both feature polyester scrim for its exceptional puncture resistance, tear strength, and flexibility.

EverGuard® PVC exceeds the ASTM D1214 Linear Dimensional Change standard of  $\leq 0.50\%$  with typical test values of  $-0.24\%$  to  $-0.28\%$ .

## ASTM international membrane "Type" comparisons

ASTM D4434, the U.S. standard for PVC sheet membranes, provides three classifications: Types II, III, and IV. More than 95% of the PVC roofing membrane on the market is either Type III or Type IV. Here's a simple key to determining which membrane suits your building's needs.

**EverGuard® PVC and PVC KEE 50-, 60-, and 80-mil smooth and fleece-back membranes comply with both Type III and Type IV specifications.**

Physical Properties	Type II min.	Type III min.	Type IV min.
Dimensional Stability (%)	0.1	0.5	0.5
Breaking Strength (lbf/in)	55	200	275
Elongation (%) (MD/CMD)	250/220	15	25
Tear Resistance (Type II) (lbf) or Tear Strength (Type III/IV) (lbf)	10	45	90
Static Puncture Resistance (lbf)	33	33	33
Dynamic Puncture Resistance (J)	10	20	20

# EverGuard® PVC KEE

KEE is a high-performance copolymer known for its flexibility, UV resistance, thermal stability, and protection against chemical exposure. It's primarily used as a plasticizer. Unlike the liquid plasticizers used in traditional PVC, KEE is a solid, which prevents the plasticizer from migrating out of the membrane over time. PVC KEE is often specified in applications that call for increased protection against chemicals such as grease, animal fats, and jet fuel\*.

## Guarantees up to 30+ years available for qualified systems†

Choose and/or specify GAF EverGuard® PVC and/or PVC KEE membrane roofing systems whenever your structure protects a mission-critical function. We are so confident in both our third-party studies and our record of on-roof performance, GAF (and at publication time ONLY GAF) offers a specific guarantee, backed by contractor training, tailored to the priorities of Data Centers and other mission-critical structures. (See details below and at [GAF.com/missioncritical](http://GAF.com/missioncritical))

Contact GAF Design Services for information regarding guarantee terms and conditions.



## Mission Critical Structure NDL Roof Guarantee

GAF's Mission Critical Structure NDL Roof Guarantee provides "Edge to Edge" protection for data centers, covering leaks from defects, wear, workmanship, and includes specific hail/puncture coverage. It features scheduled inspections and no dollar limit on covered repairs.

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† For qualified systems only. See [gaf.com](http://gaf.com) for full coverage and restrictions.

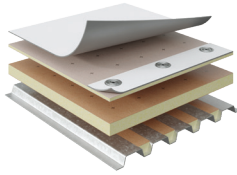
# PVC application methods



PVC can be installed using a wide variety of installation methods to suit application needs, desired wind uplift and puncture resistance, or economical/quick installation. Typical assemblies include:

## Mechanically Attached Smooth PVC

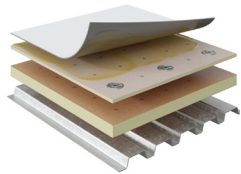
with Drill-Tec™ Fasteners



- One of the fastest installation methods
- Widest application temperature range
- Qualifies for up to a 30-year guarantee\*

## Adhered Smooth PVC

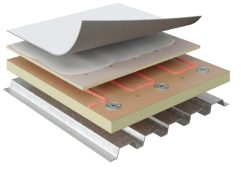
with Traditional Bonding Adhesive



- Offers a uniform, smooth appearance
- Minimizes thermal drift
- Acts as a vapor barrier
- Qualifies for up to a 30-year guarantee\*

## Adhered Fleece-back PVC

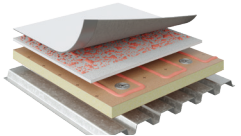
with WB181 Wet Lay-in  
(WB = Water-Based)



- Faster than traditional solvent-based bonding adhesives
- Fleece backing offers increased puncture resistance†
- Offers a uniform appearance
- Minimizes thermal drift
- Acts as a vapor barrier
- Qualifies for up to a 30-year guarantee\*

## Adhered Fleece-back PVC

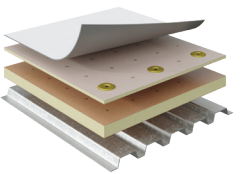
with Low-rise Foam



- Up to 50% faster than installation of smooth membrane with traditional solvent-based bonding adhesive
- Fleece backing offers additional puncture resistance†
- Qualifies for up to a 30-year guarantee\*

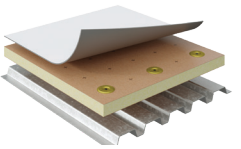
## Quick-Lay Adhesive Smooth PVC system

Not compatible with PVC KEE



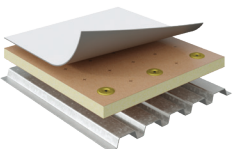
- Faster than traditional solvent-based bonding adhesives
- Offers a uniform appearance
- Minimizes thermal drift
- Acts as a vapor barrier
- Qualifies for a 30-year guarantee\*
- Not for use with EverGuard® PVC KEE membranes

## Induction-Weld with Smooth PVC



- Quick dry-in
- No cure time, fumes, or mess
- Fast and easy installation in the widest temperature range
- Qualifies for up to a 30-year guarantee\*

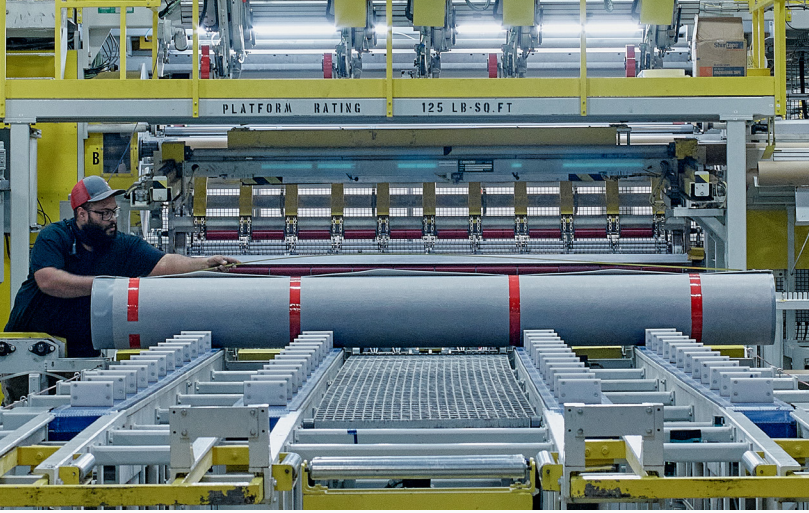
## GAF Quick Spray Adhesive Smooth PVC



- One of the fastest installation methods
- Excellent finished look and wind uplift
- Qualifies for up to a 30-year guarantee\*

\* Additional requirements apply. Contact GAF for more information. See GAF warranty guidelines for details.

† GAF warranties and guarantees do not provide coverage against hail except where additional puncture-resistance coverage is purchased on eligible jobs. Refer to [gaf.com](http://gaf.com) for more information on warranty and guarantee coverage and restrictions.



GAF  
Commercial  
PVC Plant in  
Cedar City,  
Utah

## EverGuard® PVC

Suitable for use in all types of single-ply systems: mechanically attached, adhered, induction-welded, and ballasted. Available in White, Gray, and Tan.

Thickness	Unit Size	Item #
50 mil	10' x 100' (3.05 m x 30.5 m)	826A
	5' x 100' (1.52 m x 30.5 m)	826B
60 mil	10' x 100' (3.05 m x 30.5 m)	826C
	5' x 100' (1.52 m x 30.5 m)	826D
80 mil	10' x 80' (3.05 m x 24.4 m)	826E
	5' x 80' (1.52 m x 24.4 m)	826F



Certified  
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Product Declaration  
[www.nsf.org](http://www.nsf.org)

## EverGuard® PVC Fleece-Back

Polyester fleece backing allows direct membrane application to rough substrate surfaces. Available in White, Gray, and Tan.

Thickness	Unit Size	Item #
50 mil	10' x 100' (3.05 m x 30.5 m)	827A
	5' x 100' (1.52 m x 30.5 m)	827B
60 mil	10' x 100' (3.05 m x 30.5 m)	827C
	5' x 100' (1.52 m x 30.5 m)	827D
80 mil	10' x 80' (3.05 m x 24.4 m)	827E
	5' x 80' (1.52 m x 24.4 m)	827F



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## EverGuard® PVC KEE

All the benefits of Everguard® PVC and the benefits of KEE to include increased protection against UV and chemicals.\* Available in White, Gray, and Tan.

Thickness	Unit Size	Item #
50 mil	10' x 100' (3.05 m x 30.5 m)	82A9
	5' x 100' (1.52 m x 30.5 m)	82A5
60 mil	10' x 100' (3.05 m x 30.5 m)	82B9
	5' x 100' (1.52 m x 30.5 m)	82B5
80 mil	10' x 80' (3.05 m x 24.4 m)	82C7
	5' x 80' (1.52 m x 24.4 m)	82C1

## EverGuard® PVC KEE Fleece-Back

Polyester fleece backing allows direct application to rough substrate surfaces and asphaltic roofing. Fleece can substitute for a separation sheet in applications where that is required, such as PVC over asphalt. Available in White, Gray, and Tan.

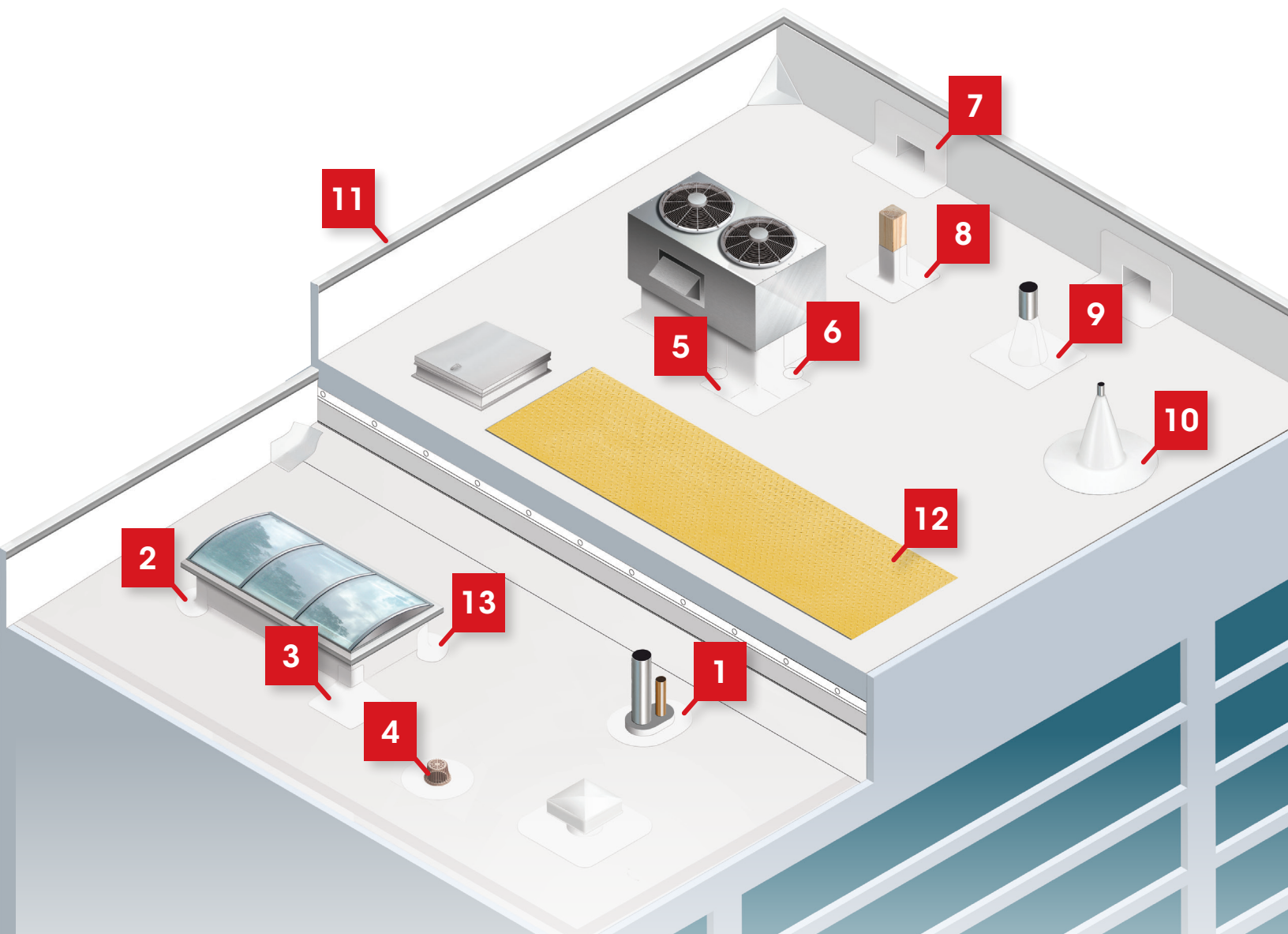
Thickness	Unit Size	Item #
50 mil	10' x 100' (3.05 m x 30.5 m)	82D9
	5' x 100' (1.52 m x 30.5 m)	82D5
60 mil	10' x 100' (3.05 m x 30.5 m)	82F9
	5' x 100' (1.52 m x 30.5 m)	82F5
80 mil	10' x 80' (3.05 m x 24.4 m)	82G7
	5' x 80' (1.52 m x 24.4 m)	82G1



ASSEMBLED IN THE U.S.A.  
**AMERICAN JOBS**  
IN AMERICAN FACTORIES.

# Easy to install with a full line of accessories

EverGuard® PVC and PVC KEE offer excellent flexibility, which can save time and labor when installing on complex roofs. The EverGuard™ line also includes a wide range of time-saving adhesives and prefabricated accessories.



1



PVC single-piece pourable sealer pocket

2



Fluted corner

3



Universal corner

4



Coated SpeedTite™ and Hercules™ drain (various sizes)

5



Corner curb wrap (various sizes)

6



T-Joint cover patch

7



Scupper (various sizes)

8



Square tube wrap (various sizes)

9



Split pipe boot (various sizes)

10



Conical vent boot

11



Prefabricated perimeter edge metal

12



Walkway roll  
■ Yellow & Gray

13



PMMA reinforced liquid flashing



Visit [gaf.com/PVC](https://gaf.com/PVC)

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