EverGuard® PVC KEE Membrane

The benefits of EverGuard® PVC plus increased durability, enhanced protection against chemical exposure* and reduced dirt pick-up.

Features:

- **Premium performance**
- **Increased protection** against chemicals, grease, and jet fuel compared to PVC, TPO, and EPDM*
- **Exceptional** cold weather flexibility
- **Increased long-term weathering and UV resistance** compared to PVC in ASTM D4434 and G154/155 testing
- **Excellent seam strength:** Heat-welded seams provide greater seam strength compared to taped seams
- **High flexibility**, which is great for use on difficult contours and curves
- **Seam integrity:** Positive bleed-out provides a visual indication of welding
- **Superior fire performance** compared to other non-PVC single-ply roofing technologies**
- **Potential cooling cost† and urban heat island effect reductions,** thanks to a highly reflective and emissive white surface
- **Guarantees are available up to 30 years for qualified EverGuard® PVC KEE systems‡** (up to 5 years longer than similar roofing systems using standard PVC)
- **Easy to install due to:**
  - Complete line of prefabricated accessories§
  - 10'- (3.05 m) and 5' - (1.5 m) wide sheets
  - Fast installation with PVC Quick Spray Adhesive
- **Colors**: Available in White, Gray, Tan, and Energy Gray

Application:

- **Mechanically attached application** for a quick and cost-effective system that can be installed practically year-round
- **Induction weld 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 #2331 Bonding Adhesive or PVC Quick Spray Adhesive
  NOTE: Do not install using EverGuard™ WB 181 Bonding Adhesive or EverGuard™ PVC Quick-Lay Adhesive

Why PVC KEE?

KEE (Ketone Ethylene Ester) is a highly flexible polymer used as a plasticizer. Unlike liquid plasticizers used in traditional PVC, KEE is a solid plasticizer that brings enhanced performance properties compared to a standard PVC membrane. PVC KEE membranes can help resist dirt pickup and mold/mildew, helping to keep the roof clean and reflective.‡‡ EverGuard® PVC KEE is often specified in applications that call for increased protection against chemicals such as grease, animal fats, and jet fuel.*

For EverGuard® PVC KEE only.††

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

Accessories§:

EverGuard® PVC KEE compatible prefabricated accessories deliver consistent quality and eliminate the worry and problems often associated with field fabrication. They can also boost productivity while reducing labor.

- Coated Speedtite™ and Hercules® Drain
- Corner Curb Wrap
- Fluted Corner
- Inside Corner
- Preformed Split Pipe Boot
- Conical Vent Boot
- Preformed Vent Boot
- PVC Membrane Cleaner
- Scupper
- Split Pourable Sealant Pocket
- Square Tube Wrap
- T-Joint Cover Patches
- Universal Corner
- Vent
- Walkway Roll

For a complete list of EverGuard® PVC KEE compatible accessories, visit gaf.com

* GAF warranties and guarantees do not provide coverage against chemical exposure or exposure to grease, animal fats, and jet fuel. Refer to gaf.com 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.

‡ Additional requirements apply. Contact GAF for more information.

§ Accessory products are not FM Approved or Classified by UL.

** In Class A ASTM E108 testing, specific EverGuard® PVC KEE roofing assemblies have demonstrated the capability to extinguish even when the flame source remains applied to the assembly.

†† Excludes PVC and PVC KEE accessories.

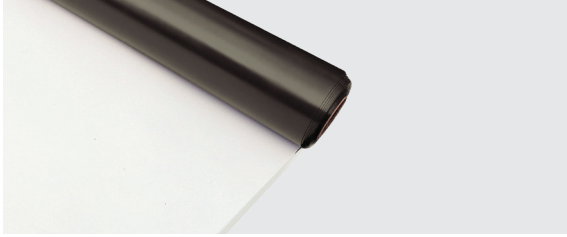
‡‡ GAF warranties and guarantees do not provide coverage against dirt, mold, mildew, or other biological growth. Refer to gaf.com for more information on warranty and guarantee coverage and restrictions.

Note: RhinoBond® is a registered trademark of OMG, Inc.

For additional information, contact GAF Design Services at **1-877-423-7663** or **designservices@gaf.com**

We protect what matters most™

EverGuard® PVC KEE Membrane



Physical Properties (ASTM D 4434 – 21 Type III)

Type	ASTM Test Method	D4434 Type III Min	EverGuard® PVC KEE Test Values (approx.)*		
			50 mil	60 mil	80 mil
Overall Thickness	ASTM D751	45 mil (1.14 mm)	50 mil (1.27 mm)	60 mil (1.52 mm)	80 mil (2.03 mm)
Thickness over Scrim	ASTM D7635	16 mil (0.41 mm)	23 mil (0.58 mm)	27 mil (0.69 mm)	38 mil (0.97 mm)
Breaking Strength	ASTM D751	200 lbf/in. (890 N)	330 lbf (1,468 N) MD / 296 lbf (1,317 N) CD	346 lbf (1,539 N) MD / 306 lbf (1,361 N) CD	373 lbf (1,659 N) MD / 339 lbf (1,508 N) CD
Elongation at Break	ASTM D751	15% MD / 15% CD	43% x 33%	34% x 32%	34% x 32%
Factory Seam Strength	ASTM D751	75%	93%	101%	109%
Breaking Strength after Heat Aging	ASTM D3045	90%	90% min	107% x 97%	90% min
Elongation at Break after Heat Aging	ASTM D3045	90%	90% min	107% x 107%	90% min
Tear Strength	ASTM D751	45 lbf (200.2 N)	133 lbf (592 N) MD/ 138 lbf (614 N) CD	111 lbf (494 N) MD / 145 lbf (645 N) CD	92 lbf (409 N) MD / 156 lbf (694 N) CD
Low-Temperature Bend	ASTM D2136	Pass @ -40°F (-40°C)	Pass @ -40°F (-40°C)	Pass @ -40°F (-40°C)	Pass @ -40°F (-40°C)
Xenon Arc WOM Accelerated Weathering (Tested at 0.7 W/m² in comparison to G155 min of 0.35 W/m²)	ASTM G155	5,000 h (6,300 kJ/m²)	>11,100 hr (>27,973 kJ/m²)	>11,100 hr (>27,973 kJ/m²)	>11,100 hr (>27,973 kJ/m²)
Fluorescence QUV Accelerated Weathering (Tested at 1.55 W/m² in comparison to G154 min of 0.68 W/m²)	ASTM G154	5,000 h (12,240 kJ/m²)	>11,852 hr (>66,134 kJ/m²)	>11,852 hr (>66,134 kJ/m²)	>11,852 hr (>66,134 kJ/m²)
Linear Dimensional Change	ASTM D1204	≤0.5%	≤0.2%	-0.36%	-0.39%
Change in Weight after Water Immersion	ASTM D570	±3.0%	<3%	2%	<3%
Static Puncture Resistance	ASTM D5602	33 lbf (145 N)	33 lbf (145 N)	33 lbf (145 N)	33 lbf (145 N)
Dynamic Puncture Resistance	ASTM D5635	20 J (14.7 ft-lbf)	20 J (14.7ft-lbf)	20 J (14.7ft-lbf)	20 J (14.7ft-lbf)

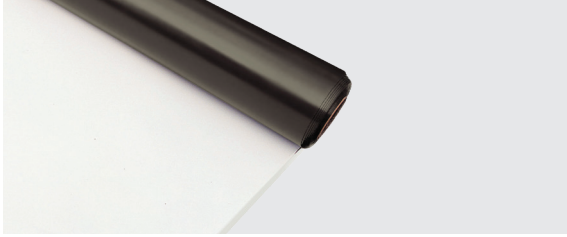
Sustainability Ratings/Certifications

The ratings below are subject to CRRC rating program conditions, requirements, and limitations. Visit coohuofs.org for important information and disclaimers about CRRC rating conditions, requirements, and limitations. CRRC ages membranes for 3 years, unless otherwise noted.

Product ID#	Type	Solar Reflectance	Thermal Emittance	Solar Reflectance Index (SRI)
	ASTM Test Method	ASTM C1549	ASTM E903	ASTM E903
White 0676-0135a	Initial	0.86	0.86	109
	Aged	0.78	0.87	96
Tan 676-0165	Initial	0.73	0.88	89
	Aged†	0.62	0.88	74
Gray 0676-0166	Initial	0.57	0.88	67
	Aged†	0.50	0.88	58
Energy Gray 0676-0158	Initial	0.73	0.90	90
	Aged	0.66	0.88	80

* Values stated are approximate and subject to normal manufacturing variation. These values are not guaranteed and are provided solely as a guide.
† CRRC Rapid Ratings: Interim laboratory-aged values that simulate naturally aged values and will be replaced by the measured three-year naturally aged values upon completion of the weathering process.

EverGuard® PVCKEE Membrane



LEED Information

Manufacturing Location	Cedar City, UT

Applicable Standards/Approvals

CLASSIFIED UL	Classified by UL in accordance with ANSI/UL 790, including as a component of Class A fire resistance rated roofing assemblies. Refer to UL Product iQ for specific assemblies.	Can be used to comply with Title 24, Part 6, Cool Roof Requirements of the California Code of Regulations
		Meets or exceeds the requirements of ASTM D4434, Type III
FM APPROVED	FM Approved Refer to Roofnav.com for actual assemblies	State of Florida Approved
MIAMI-DADE COUNTY APPROVED	Miami-Dade County Product Control Approved	ICC-ES 5430

Product Data

Roll Size	Colors	Full Roll Size	Full Roll Weight (Average)	Half Roll Size	Half Roll Weight (Average)
50 mil*	White, Gray, Tan, Energy Gray	10′ x 100′ (3.05 m x 30.48 m)	318 lb. (145 kg)	5′ x 100′ (1.52 m x 30.48 m)	159.0 lb (72 kg)
60 mil		10′ x 100′ (3.05 m x 30.48 m)	377 lb. (171 kg)	5′ x 100′ (1.52 m x 30.48 m)	189 lb. (86 kg)
80 mil		10′ x 80′ (3.05 m x 24.38 m)	401 lb. (182 kg)	5′ x 80′ (1.52 m x 24.38 m)	201 lb. (91 kg)
Storage	Store on pallets in a clean, dry area at temperatures below 100°F (38° C). Materials should not be double-stacked and must remain on the pallet until use in a shaded, ventilated area. Materials should be covered with a light-colored tarp to protect from the elements.				
Safety Warning	Membrane rolls are heavy. Employ at least two people to position and install.				

Note: Membrane rolls shipped horizontally on pallets.
* All 50 mil rolls, Tan, and Energy Gray color offerings made to order.

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