

## Product Evaluation

RC153 | 1222

Engineering Services Program

The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** RC-153

**Effective Date:** December 1, 2022

**Re-evaluation Date:** December 2026

**Product Name:** HydroStop® Roofing and Waterproofing System

**Manufacturer:** GAF  
1 Campus Drive  
Parsippany, NJ 07054  
(877) 423-7663  
[designservices@gaf.com](mailto:designservices@gaf.com)

**General Description:**

The HydroStop® System is a liquid applied roofing and waterproofing system.

**Limitations:**

**Roof Slope:** The roof deck must have a minimum slope of 1/4:12.

**Application Conditions:** Do not apply the HydroStop® System if the ambient temperature is expected to fall below 40 degrees F or if rain is expected before the application has time to cure.

**Roof Framing:** Roof framing members must be in accordance with either the IRC or the IBC. Roof framing spacing must not exceed 24" on center.

**Roof Deck Attachment:** The roof deck must be secured to the roof framing to resist the required wind uplift pressures.

**Installation Over an Existing Roof Covering:** Installation of the HydroStop® System over an existing roof covering is not within the scope of this evaluation report. The HydroStop® System may be installed over an existing wood roof deck. The existing roof deck must be solidly sheathed and correspond to the assemblies listed below. The existing roof covering must be completely removed. Inspection of the existing roof deck must be made before installation of the HydroStop® System. The condition of the existing roof deck must be acceptable to receive the HydroStop® System before installation of the HydroStop® System can proceed.

### **Installation:**

#### **HydroStop® System – General Installation:**

- Verify that the roof deck has the minimum required slope.
- Verify that the roof does not have ponding water areas.
- The existing roof covering must be completely removed.
- Inspection of the existing roof deck must be made before installation of the HydroStop® System.
- The roof deck must be smooth, clean, and free of loose particles, cracks, or projections.

#### **Assembly No. 1A – Wood Deck**

**Design Pressure Rating:** -67.5 psf

**Roof Deck:** Minimum 15/32" plywood deck

**Insulation:** (Optional). One or more layers, any combination, loose laid.

**Cover Board:** Minimum 1/4" thick DensDeck® Prime Roof Board or DensDeck® StormX Prime Roof Board. Secured with Drill-Tec™ #12 Fasteners with Drill-Tec™ 3" Ribbed Galvalume Flat Plates. Apply the plates and fasteners at 1 per 1.33 sf.

**Joint Treatment:** Apply first coat of the HydroStop® PremiumCoat® Foundation Coat or GAF Premium Acrylic HydroStop® Base Coat the wood roof deck joints at a rate of 1.25 gal/100 sf. Embed HydroStop® PremiumCoat® Fabric or GAF Premium Fabric into the wet HydroStop® PremiumCoat® Foundation Coat or GAF Premium Acrylic HydroStop® Base Coat, 6" wide at the wood deck joints and 12" wide at the perimeters. Apply a second coat of the HydroStop® PremiumCoat® Foundation Coat or GAF Premium Acrylic HydroStop® Base Coat at a rate of 1.25 gal/100 sf to the joints and the

perimeter. HydroStop® PremiumCoat® Foundation Coat, GAF Premium Acrylic HydroStop® Base Coat, HydroStop® PremiumCoat® Fabric and GAF Premium Fabric are applied with brushes approved by GAF. Rolling and spraying of the Foundation Coat or Base Coat is not permitted.

**Foundation Coat:** Apply first coat of the HydroStop® PremiumCoat® Foundation Coat or GAF Premium Acrylic HydroStop® Base Coat at a rate of 1.25 gal/100 sf. Embed HydroStop® PremiumCoat® fabric or GAF Premium Fabric into the wet HydroStop® PremiumCoat® Foundation Coat or GAF Premium Acrylic HydroStop® Base Coat, 36" wide with 4" side laps over the entire roof surface. Apply a second coat of the HydroStop® PremiumCoat® Foundation Coat or GAF Premium Acrylic HydroStop® Base Coat at a rate of 1.25 gal/100 sf. HydroStop® PremiumCoat® Foundation Coat, GAF Premium Acrylic HydroStop® Base Coat, Hydrostop® PremiumCoat® Fabric and GAF Premium Fabric are applied with brushes approved by GAF. Rolling and spraying of the Foundation Coat or Base Coat is not permitted.

**Finish Coat:** Apply two coats of the HydroStop® PremiumCoat® Finish Coat or GAF Premium Acrylic HydroStop® Top Coat, each at a rate 0.75 gal/100 sf, over the entire roof surface. Allow the Finish Coat to dry between coats. The Finish Coat or Top Coat must be applied with a roller approved by GAF.

### **Assembly No. 1B – Wood Deck**

**Design Pressure Rating:** -45 psf

**Roof Deck:** Minimum 19/32" plywood deck

**Fire Barrier:** (Optional). GAF FireOut™ Fire Barrier Coating or VersaShield® SOLO™ Fire-Resistant Slip Sheet.

**Base Sheet:** GAFGLAS® Stratavent® Nailable Venting Base. Secured to the roof deck with minimum 1-1/4" annular ring shank nails with 1-5/8" tin caps. Apply the nails at 7" on center at the 4" side laps and two (2) staggered rows, equally spaced, at 7" on center in the field of the sheet.

**Foundation Coat:** Apply one coat of the HydroStop® PremiumCoat® Foundation Coat or GAF Premium Acrylic HydroStop® Base Coat to the GAFGLAS® Stratavent® Nailable Venting Base at a rate of 25-40 sf/gal. Embed HydroStop® PremiumCoat® Fabric or GAF Premium Fabric into the wet HydroStop® PremiumCoat® Foundation Coat or GAF Premium Acrylic HydroStop® Base Coat, 36" wide with 4" wide overlaps, over the entire roof surface. Apply a second coat of the HydroStop® PremiumCoat® Foundation Coat or GAF

Premium Acrylic HydroStop® Base Coat at a rate of 25-40 sf/gal. HydroStop® PremiumCoat® Foundation Coat, GAF Premium Acrylic HydroStop® Base Coat, Hydrostop® PremiumCoat® Fabric, and GAF Premium Fabric are applied with brushes approved by GAF. Rolling and spraying of the Foundation Coat or Base Coat is not permitted.

**Finish Coat:** Apply two coats of the HydroStop® PremiumCoat® Finish Coat or GAF Premium Acrylic HydroStop® Top Coat, each at a rate 0.75 gal/100 sf over the entire roof surface. Allow the Finish Coat to dry between coats. The Finish Coat or Top Coat must be applied with a roller approved by GAF.

**Note:** Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.