

# TECHNICAL ADVISORY BULLETIN



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

To: GAF Commercial Sales, Commercial Contractors, Field Services

From: Technical Services Department

Subject: EverGuard® Freedom™ Self-Adhering TPO Membranes

Date: 04/24/2014

No: TAB-C 2012-07-r3

## Always Mate Rapid Seam™ Adhesive To RapidSeam™ Adhesive...

The two sheet side edges with the Rapid Seam™ adhesive **MUST** be adhered together... to provide a long-term watertight seal. EverGuard® Freedom™ with Rapid Seam™ Technology has a 6" (152 mm) wide selvage edge with Rapid Seam™ adhesive facing up on one side of the roll, while the other edge of the roll has a 6" (152 mm) wide strip of Rapid Seam™ adhesive on the bottom of the sheet.

**DO NOT** adhere the selvage edge with the Rapid Seam™ adhesive to field cut edges... or the ends of the roll. The adhesive used in the field of the sheet used to bond the sheet to the substrate is specifically designed for that purpose. If Rapid Seam™ adhesive is mated with the field adhesive, it will not provide a long-term watertight seal.

## New Substrate/Anchor Sheet Requirements...

In addition to enhanced seam performance of Freedom® TPO with Rapid Seam™ Technology, the **use of an anchor sheet** to minimize the effects of system movement is now required in many Freedom® TPO installation specifications (including installation specifications using Freedom TPO with Heat-Welded Seams).

- **Systems over plywood decks...** with no insulation require the use of StormSafe™ Anchor Sheet.
- **Systems over one layer of an approved insulation...** require the use of StormSafe™ Anchor Sheet.
- **Systems that include a gypsum roof board (like SECUROCK® roof board)...** do not require an anchor sheet for jobs less than 50 squares; however, an anchor sheet may be incorporated for improved appearance and adhesion.
- **Systems with two layers of insulation...** do not require the use of Storm Safe™ anchor sheet for jobs less than 50 squares; however, an anchor sheet may be incorporated for improved appearance and adhesion. As with any installation, joints between insulation must be staggered.
- **Any roof greater than 50 squares...** requires the use of StormSafe™ Anchor Sheet.

## Why Use An Anchor Sheet?

An anchor sheet provides:

- A **solid bonding surface** with no gaps or voids
- Greatly reduces **the effects of movement** within the system
- Reduces potential **concerns related to condensate or moisture vapor** migration

## Are These New Systems?

No... Systems incorporating StormSafe™ Anchor Sheet are not new to GAF. These systems have been performing for several years and are preferred because they provide enhanced adhesion, an aesthetically acceptable installation and reduce issues related to component movement.

## Installation Reminders...

- **Roll the field of the roof...** GAF requires that the entire field and seam areas of all Freedom TPO installations be rolled in with a 30 gallon (113 L) or 240 pound (109 Kg) lawn roller.
- **Hand-roll the laps...** Hand-roll the entire length of the seam area to ensure complete mating of the surface.

## Did Anything Else Change?

- **Easier to use size...** Rapid Seam™ sheets are available in 5' x 50' (1.52 m x 15.2 m) rolls only in 45 or 60mil thicknesses. The 10' x 100' (3.05 m x 30.5 m) rolls with Rapid Seam™ Technology are no longer available.
- **Do Not** adhere Freedom™ Self-adhering membranes directly to fiberboard or EPS insulations. Insulation systems incorporating fiberboard and EPS should not be used under Freedom™ Self-adhering membranes.

## Where Can I Get More Information?

**GAF Technical Services can assist you...** with these and other questions you may have regarding your new roof installation. GAF Technical Services can be contacted at **800-ROOF-411** (800-766-3411). Also, the GAF website is a great resource for just about any question you may have or for additional information you may require.

Please visit: [www.gaf.com](http://www.gaf.com).

*\*Based on internal GAF testing*