

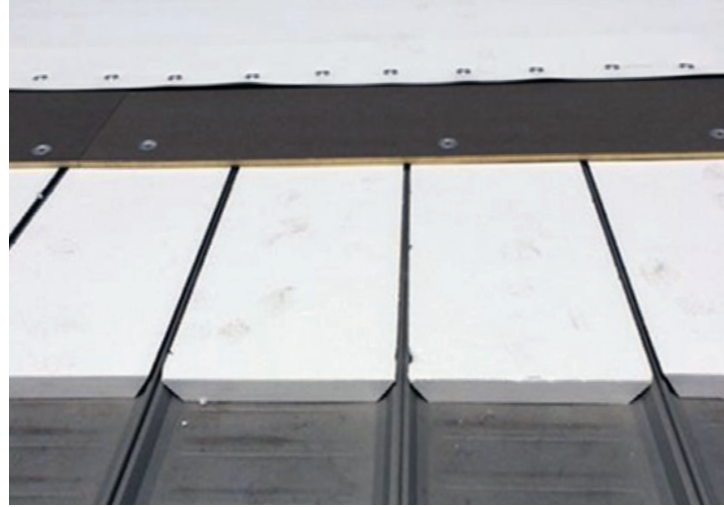


TPO Metal **Retrofit Systems**



WEATHERBOND
ROOFING SYSTEMS

Single-Ply Simplified



Why Choose a WeatherBond TPO Metal Retrofit System?

Metal buildings are often chosen because of their cost-effective design and speed of construction. However, when the metal roof begins to leak and deteriorate replacement can be very costly. With decades of experience in single-ply roofing, WeatherBond has a wide range of metal retrofit options.

WeatherBond's TPO can be installed over an existing standing seam metal roof to offer proven, long-lasting protection while increasing the energy efficiency of the building. This solution can be more cost effective than replacing the metal roof while proving to be a much longer-term solution compared to coatings.

WeatherBond **TPO** Roofing Systems

A WeatherBond TPO Metal Retrofit System offers the following features and benefits:

Convenience:



Installs directly over the existing metal roof eliminating costly and disruptive removal and replacement.



Multiple membrane and insulation options to meet a variety of performance, budget, and efficiency needs.

Value:



Highly reflective TPO membranes offer additional energy savings.



Improves R-value and energy efficiency of the building while reducing noise for occupants.

Performance:



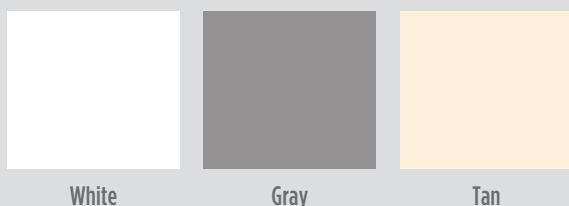
TPO's proven history of long-term performance provides a lasting solution compared to coatings and spray-applied restoration products.

Membrane Options

WeatherBond TPO membranes use advanced polymerization technology that combines the flexibility of ethylene-propylene (EP) rubber with the heat weldability of polypropylene. All WeatherBond TPO membranes include OctaGuard XT™, a blend of industry-leading weathering ingredients to enable WeatherBond TPO to stand the test of time.

WeatherBond TPO membranes are available in highly reflective white, tan, and gray colors, in both 45-mil and 60-mil thicknesses. 80-mil WeatherBond TPO is also offered in white, gray, and tan colors, in addition to 5 special colors. Additionally, WeatherBond offers Fleece TPO in 100, 115, and 135-mil thicknesses for added puncture resistance and uplift performance.

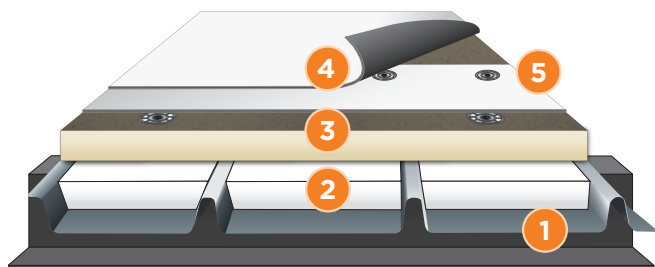
WeatherBond TPO Colors In Stock



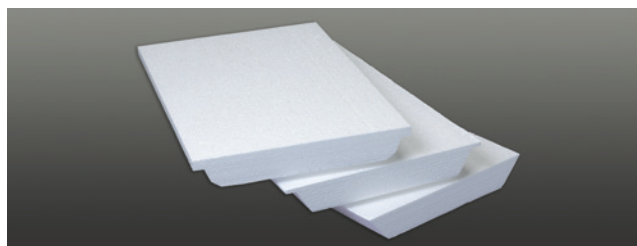
WeatherBond TPO Special Colors



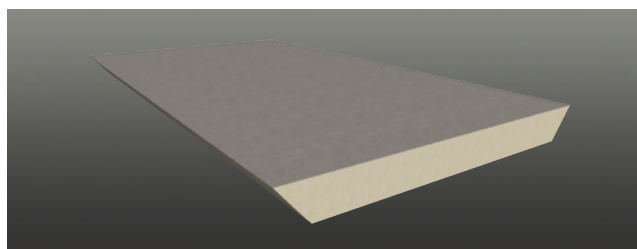
Installing a TPO Metal Retrofit System



- 1 Existing Standing Seam Metal Roof**
- 2 Flute Fill Insulation:** a key component of a metal retrofit system is the addition of custom-fit insulation between the standing seams of the metal roof panels. WeatherBond offers both EPS (expanded polystyrene – shown) and Polyiso flute-fill insulation that can be factory cut to fit between each metal panel. This insulation layer also adds R-value and can be loose-laid or adhered.
- 3 Additional insulation:** once flute-fill has been installed, additional insulation ranging from a ¼-inch cover board to several inches of Polyiso insulation can be installed to create a smooth flat substrate for the membrane. Adding thicker Polyiso insulation and cover boards can add additional R-value to the system. Using a high-compressive strength Polyiso cover board or gypsum cover board can also enhance impact resistance and fire resistance.



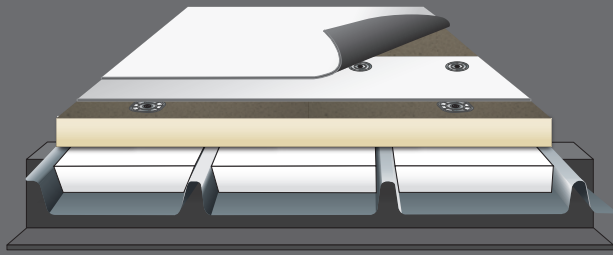
EPS Flute Fill



Polyiso Flute Fill

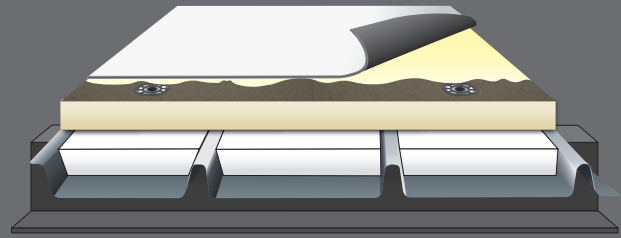
- 4 Attachment:** the WeatherBond TPO membrane can be mechanically attached using fasteners and plates, attached using induction welding plates, or fully adhered using a TPO bonding adhesive. See the back cover for more information on each attachment method.
- 5 WeatherBond TPO Membrane:** the adjoining TPO membrane sheets are hot-air welded together using an approved hot-air welder.

System Types



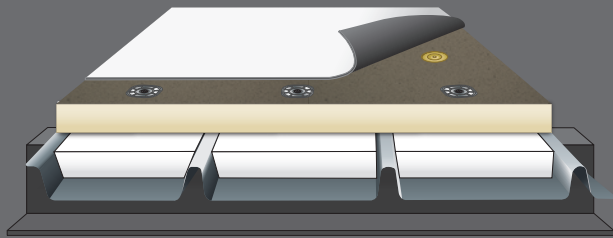
Mechanically Attached

- Membrane is loose laid and attached to structural purlins using plates and fasteners
- Low installed cost with moderate wind uplift performance
- No fumes or odors from adhesives



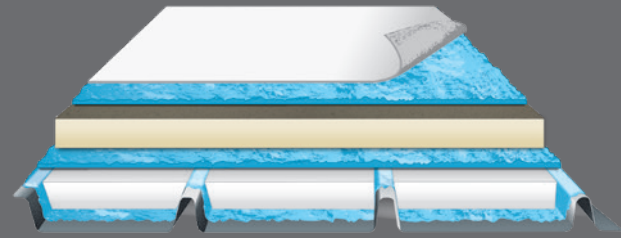
Fully Adhered

- Insulation is attached using fasteners and plates. Membrane is adhered using TPO bonding adhesive or CAV-GRIP® III Adhesive
- Excellent wind uplift performance and appearance
- Allows for the use of membrane sheets up to 12' wide for fewer seams



Induction Welded

- Specially coated plates are fastened to structural purlins and bonded to the membrane using an induction welding tool to secure the membrane
- Similar installed cost and performance to a mechanically attached system
- Allows for the use of membrane sheets up to 12' wide for fewer seams



Non-Penetrating Fleece Application

- Insulation and Fleece-backed TPO membrane installed using Flexible DASH urethane adhesive
- Non-penetrating design and low odor Flexible DASH adhesive provide minimal disruption and noise to occupants during installation
- Superior wind uplift performance
- Highly resistant to impacts and punctures



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P.O. Box 251 | Plainfield, PA 17081 | 866.471.5125 | FAX: 717.960.4034 | www.weatherbondroofing.com

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