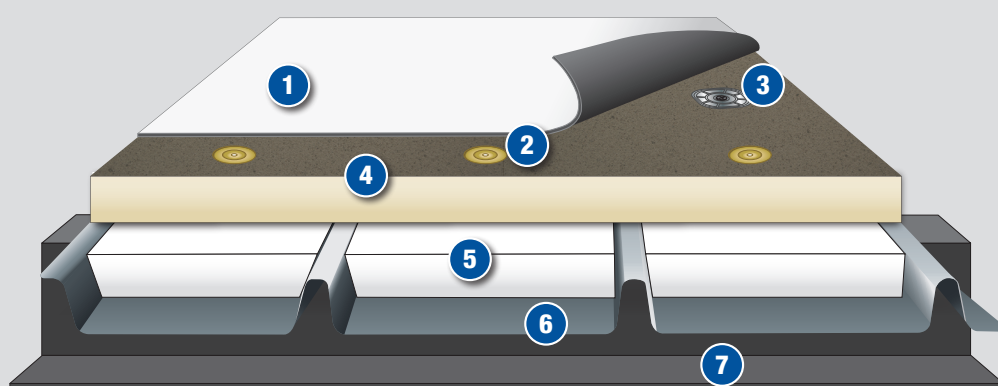


Sure-Weld® TPO

Induction Welded Metal Retrofit



- 1** Sure-Weld TPO Reinforced Membrane
- 2** Induction Welding Plates with HP Purlin Fasteners
- 3** Insulation Fasteners and Plates
- 4** Acceptable Insulation
- 5** Flute Fill Insulation
- 6** Existing Metal Roof
- 7** Structural Purlin

Sure-Weld TPO Membrane for Metal Retrofit Systems is available in the following:

Color	White, Gray, and Tan Special Colors:* Medium Bronze, Patina Green, Rock Brown, Terra Cotta, and Slate Gray
Thicknesses (mils)	45, 60, and 80
Standard Widths	4', 6', 8', 10', 12', and 16'
Standard Lengths	100'

*Special Colors available only in 60-mil and 5' and 10' sheets

System Features & Benefits:

- » Adds additional insulating value
- » Heat-weldable seams
- » Roofing membrane is CRRC rated and can contribute to LEED® requirements*
- » High wind uplift performance
- » Industry-leading OctaGuard XT™ Weathering Package provides improved weatherability, durability, and long-term rooftop performance

*Standard colors only

Induction Welded System	
Flutes of Existing Metal Roof are filled with an Acceptable Insulation	
Flute Filler Attached By	Insulation is loose-laid into flutes
	Approved insulation is then laid over Flute Fill Insulation
Insulation Attached By	Insulation is mechanically fastened into existing metal with InsulFast™ or HP-X Fasteners™
Membrane Attached By	HP Purlin Fasteners and Induction Welding Plates (attached to structural purlins)

For more information, refer to the Sure-Weld specifications. UL Class A Ratings available.

For current Code Approvals and Warranties, visit Carlisle's website, or contact a design analyst.

Sure-Weld TPO

Induction Welded Metal Retrofit

Sure-Weld TPO Membrane

Carlisle's Sure-Weld TPO is a premium, heat-weldable, single-ply thermoplastic polyolefin membrane, engineered to provide outstanding long-term performance in new roof construction and re-roofing applications. All Sure-Weld TPO membranes utilize the patented OctaGuard XT weathering package technology, which is able to withstand extreme durability testing intended to simulate exposure to several climates.

Sure-Weld TPO Accessories

Carlisle also offers over a dozen prefabricated, in-stock, standard-order accessories, and countless custom-order accessories. All carry a CFA (Certified Fabricated Accessory) stamp of approval, so you know they are manufactured to the highest standards. Every Carlisle CFA-approved accessory saves time and money during installation.



Installation

An acceptable insulation is used to fill the metal deck flutes. A subsequent layer of insulation or coverboard is then installed and secured to the purlins using induction welding plates and purlin fasteners.

Metal Retrofit Induction Welded Roofing System

Sure-Weld TPO reinforced membrane is laid over top of the induction welding plates. Adjoining membrane sheets are hot air welded together using an approved auto hot air welder. Induction welding plates and membrane are welded together using the appropriate induction welding tool and heat-sink magnets.

Membrane and System Strengths

- » Economically installed over existing metal roofs
- » Specially designed fastening system using induction welding plates anchored into the structural purlins (the strongest point of the roof) provides optimum performance
- » Installs easily over most aged metal roofs
- » Heat-weldable seams provide a complete and monolithic membrane assembly
- » Sure-Weld TPO reinforced membranes are durable and highly puncture resistant

System Codes

- » UL Class A, B, and Unlimited Slope ratings are available
- » Meets FM Loss Prevention Data Sheet 1-31

For specific code approvals, refer to Carlisle's Code Approval Guide.

Inspection

Upon installation completion, and prior to the issuance of a membrane system warranty, an inspection will be conducted by a Carlisle Field Service Representative.

Warranty

Consult your Authorized Applicator, Carlisle Manufacturer's Representative or Distributor for associated warranty charges.

Carlisle's induction welded metal retrofit systems are backed by our industry leading Total System Warranty. Five to twenty year total system warranties are available with optional hail, puncture, and reflectivity warranties available upon request.

