

16' TPO Marketing Announcement September 2025

To: Carlisle SynTec Systems' Authorized Applicators

Carlisle SynTec Systems is excited to introduce our new mechanically fastened 16' Sure-Weld® TPO assembly, which is based on new FM testing. Previously, 16' Sure-Weld TPO could only be used in fully adhered and induction-welded systems. However, with the addition of a hybrid attached method that utilizes both induction welding and mechanical seam fastening, customers can now enjoy the advantages of the wider 16' TPO alongside the benefits of a mechanically fastened system.

Installation Procedure – When installing the 16' TPO field sheets, it is important to use the appropriate Carlisle fasteners and plates in the seam area. Additionally, induction-welded plates must be installed at the halfway point (8 feet) between all 16' seams on the insulation. As you roll out the 16' TPO sheet, the induction plates will be covered and will need to be welded using a RhinoBond® or isoweld® induction welding machine.

Warranty – The mechanically fastened 16' TPO assembly comes with a limited 30-year warranty, which includes coverage for wind speeds up to 90 mph. Additional enhancements may be necessary depending on the warranty duration, wind speed, and building height. These enhancements may involve increasing the number of perimeter sheets, the density of insulation fasteners, and the density of seam fasteners. For more details, please refer to the attached Carlisle TPO 16' Mechanically Fastened Specification in the TPO documentation, Attachment III, *Sure-Weld TPO (16'-Wide) Mechanically Fastened Roofing Systems Utilizing Standard Mechanical Fasteners and Induction Welding (RhinoBond/isoweld) Attachment Method*.

FM Wind Uplift Ratings			
Sheet Width	Thicknesses	Plate Spacing (Seam and Induction Weld Plates)	Uplift Rating
16'	45-, 60-, 80-mil	12" o.c.	1-60
16'	45-, 60-, 80-mil	6" o.c.	1-120

Benefits:

- **Labor reduction** – Using 16' sheets leads to a 40% reduction in welding seams compared to 10' sheets, which also reduces the number of T-joint patches to install and seams to inspect. Reducing the number of rolls that need to be kicked out and positioned can also save numerous man hours over the course of a project.
- **Low barrier to entry** – Take advantage of the installation speed of 16' TPO without purchasing expensive new equipment. With a single induction welding machine, one crew member can secure the plates while others focus on positioning, fastening, and welding.
- **Faster installation** – Mechanically fastened installations allow more roof to be covered per day, leading to a greater area dried-in (you can get the roof dried in and leave behind a small skeleton crew to complete the remainder of the induction welding). Plus, the efficiency gains in loading,

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positioning, seaming, and inspecting work can shave days off the overall project timeline, leading to more jobs per year for the contractor and a faster completion time for the building owner.

Carlisle has updated its Specs and Details and has a variety of supporting sales documents that include the new Sure-Weld 16' TPO Hybrid Attached system.

Supporting Documents

- Carlisle added a new Attachment III to the TPO Specification that outlines the specific requirements for 16' Mechanically Fastened Roof Systems. [Complete Digital Binder](#)
- [Carlisle's 16' TPO Mechanically Fastened Sell Sheet](#) outlines the major benefits of the new attachment method.
- [Carlisle's 16' Sure-Weld TPO Membrane Sell Sheet](#)

Please reach out to your local Manufacturer's Representative if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Austin Kulp".

Austin Kulp
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