

EZ TPO INVISIWELD™ SYSTEM OPTIONS



Innovative options for our full line of GenFlex EZ TPO attachment products

- GenFlex InvisiWeld™ Induction Welding System
- GenFlex InvisiWeld-S™ Induction Welding System



INVISIWELD™ SYSTEM



This high performance, non-penetrating TPO membrane fastening system utilizes a special TPO coated plate to attach an approved GenFlex insulation board to the roof deck. The GenFlex EZ TPO membrane is then laid out over the plates and induction welded to the back side of the TPO membrane using a heat induction welding tool.

INVISIWELD™-S SYSTEM



The InvisiWeld-S system consists of a specially coated 3" round plate that is used to both attach the insulation and the membrane through induction welding using the Isoweld® 3000 induction machine. This is available for use with .045, .060 and .080 GenFlex EZ TPO and EZ TPO Plus roofing membranes. It is FM Approved and is eligible for a GenFlex Roofing Systems Warranty for up to 15 years for .045 EZ TPO and 20 years for .060 and .080 EZ TPO membranes.

INVISIWELD

Features & Benefits:

- ▶ **Quick, Simple Installation:** No need for in-seam attachment. GenFlex InvisiWeld Plate doubles as an insulation and membrane plate fastening system.
- ▶ **No Membrane Penetration:** InvisiWeld plates are welded on the underside of the single-ply membrane.
- ▶ **More Coverage, Less Waste:** Utilizes a 3" lap, compared to a 6" seam in typically mechanically attached TPO systems.
- ▶ **Eliminates Half Sheets:** With this system, there is no need for half size TPO sheets at the perimeters and corners.
- ▶ **Less Wind Fluttering:** More even load distribution over the membrane means minimal wind fluttering and membrane fatigue compared to traditional mechanically fastened TPO systems.
- ▶ **Improved Performance:** Significantly reduces noise from roof flutter.
- ▶ **Year Round System:** Allows for faster installation in inclement weather, and can be applied even in cold conditions where adhesives and asphalt are difficult to use.
- ▶ **Reduced Parts Costs:** Typically requires 25-50% fewer fasteners compared to conventional mechanically fastened TPO systems.
- ▶ **Wind Resistant:** Factory Mutual (FM) approved systems meet or exceed wind uplift requirements.
- ▶ **Environmentally Friendly:** Volatile Organic Compound (VOC) free attachment system.
- ▶ **Reliability Guaranteed:** Backed by up to a 20 year GenFlex warranty.

INVISIWELD-S

Features & Benefits:

- ▶ **Weld Accuracy and Integrity:** Automatic calibration process with template and pre-programmed settings for membrane type and thickness ensures precise and accurate full plate welds.
- ▶ **Full Welds:** "Search and Find" options ensures ease of locating the plates below the membrane.
- ▶ **No Accidental Welds:** if the plate is not within the calibrated weld zone, the machine will not allow welding of the TPO membrane to the plate.
- ▶ **Temperature Compensation:** Thermal probe continuously monitors the surface temperature and auto-adjusts the weld settings.
- ▶ **Improved Crew Productivity:** Due to the quick calibration process and the search & find feature, time is saved.
- ▶ **Expanded Rooftop Applications:** Hand held inductor option that enables welding of the membrane vertically.
- ▶ **Machine/User Feedback:** Three-way feedback to indicate positive weld, along with audible tones to indicate plate finding and weld process.
- ▶ **Purchase or Rental Options:** The welding tool may be purchased or rented. Contact your local Building Systems Advisor from GenFlex.