

Product Data Sheet



EZ TPO InvisiWeld™ Plate

Item Description	Item Number
3" Round InvisiWeld Plate	W590051524
3" Round InvisiWeld-S Plate	W59005152S

Description

GenFlex EZ TPO InvisiWeld & InvisiWeld-S Plates are designed to secure roof insulation and GenFlex EZ TPO or GenFlex EZ TPO Plus roof membrane. The plates are 3" (76 mm) (nominal) round, and made with specially formulated, coated galvanized steel. The plates are installed with GenFast™ #14, #15 WH, #16 MAX, CD-10 Concrete Fastener and Purlin fasteners in steel, wood, or structural concrete roof decks.

Method of Application

The InvisiWeld system requires GenFlex EZ TPO InvisiWeld or InvisiWeld-S Plates, GenFlex #15, #16 or Purlin fasteners. GenFlex EZ TPO membrane is bonded to the plates using the RhinoBond® (for InvisiWeld Plates) or the isoweld® 3000 (for InvisiWeld-S Plates) induction heat welding tools available for purchase or lease through local distribution. Pre-drilling is required on structural concrete decks.

The GenFlex EZ TPO InvisiWeld System is compatible with the entire line of GenFlex GL ISO insulation and coverboards; Structodek® HD Fiberboard; DensDeck® and SECUROCK® boards. Pull tests should always be conducted to determine the proper fastener selection.

NOTE: RhinoBond is a registered trademark of OMG, Inc.

NOTE: SECUROCK is a registered trademark of USG Corporation

NOTE: isoweld is a registered trademark of SFS Intec

NOTE: DensDeck is a registered trademark of G-P Gypsum Corporation

NOTE: Structodek is a registered trademark of Blue Ridge Fiberboard, Inc

Storage

Store in unopened original containers protected from the weather.

Precautions

- Do not overdrive fasteners causing plate to buckle or under-drive fasteners resulting in a loose plate.
- Avoid field seams directly over insulation plates.
- Induction welding should not be used on extruded polystyrene (XPS), expanded polystyrene (EPS) or foil-faced insulation boards.
- Compatibility for metal decks: minimum 1½" insulation thickness over metal decks is required for proper operation of induction welding equipment.
- Refer to Safety Data Sheets (SDS) for additional safety information.

LEED® Information

Post-Consumer Recycled Content: 25%
 Post Industrial Recycled Content: 0%
 Manufacturing Location InvisiWeld Plate: Agawam, MA
 Manufacturing Location InvisiWeld-S Plate: Leeds, United Kingdom
NOTE: LEED® is a registered trademark of the U.S. Green Building Council

Typical Properties		
Property	Performance Minimum	
	InvisiWeld Plate	InvisiWeld-S Plate
Material	Galvalume® AZ55	G90 Galvanized Steel
Color	Gold/Yellow	Green/Yellow
Material Thickness	0.017" (0.43 mm) - 0.023" (0.58 mm)	0.017" (0.43 mm) - 0.023" (0.58 mm)
Corrosion Resistance	Meets FM No. 4470 criteria	Meets FM No. 4470 criteria
Pull-Through Resistance	800 lb (363 kg) from center hole	800 lb (363 kg) from center hole
Adhesive Bond Strength	550 lb (250 kg)	550 lb (250 kg)
Diameter	3" (76 mm) nominal	3" (76 mm) nominal

NOTE: Galvalume is a registered trademark of BIEC International, Inc.

Packaging		
Property	InvisiWeld Plate	InvisiWeld-S Plate
Weather Resistant Pail	500 pieces	500 pieces
Weight of Pail	35 lb (15.88 kg) per pail	34 lb (15.42 kg) per pail
Dimensions of Pail (L x W x H)	10" x 10" x 8" (254 mm x 254 mm x 203.2 mm)	4 ⁷ / ₈ " x 9 ⁷ / ₈ " x 4 ³ / ₈ " 123.83 mm x 250.83 mm x 111.13 mm)
Pails per pallet	40	54

Please contact Amrize Technical Services at 800-428-4511 for further information.

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