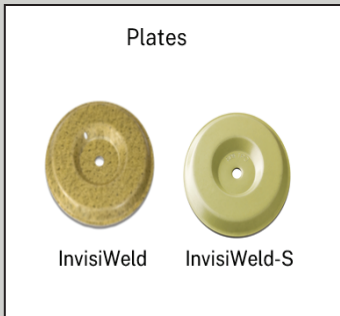


Technical Information Sheet



UltraPly™ TPO InvisiWeld™ Plate UltraPly TPO InvisiWeld-S Plate

Item Description	Item Number
3" Round InvisiWeld Plate	W56TPOPL04
3" Round InvisiWeld-S Plate	W56TPOPL0S

Description

The UltraPly TPO InvisiWeld & InvisiWeld-S Plates are designed to secure roof insulation and Elevate UltraPly TPO roof membrane. The plates are 3" (76 mm) (nominal) round, and made with specially formulated, coated galvanized steel. The plates are installed with Elevate Heavy Duty, Concrete Drive or Purlin fasteners on steel, wood or structural concrete roof decks.

Method of Application

The InvisiWeld system requires Elevate UltraPly TPO InvisiWeld or InvisiWeld-S Plates, Elevate All Purpose*, Heavy Duty, Concrete Drive or Purlin fasteners. The Elevate UltraPly TPO Membrane is bonded to the plates using the RhinoBond® (for InvisiWeld Plates) or the isoweld® 3000 (for InvisiWeld-S) induction heat welding tools which are available for purchase or lease through the welding tool manufacturer or through local roofing distribution. Pre-drilling is required on structural concrete decks.

The Elevate UltraPly TPO InvisiWeld System is compatible with the entire line of Elevate ISO 95+™ GL / ISOGARD™ GL insulations and cover boards, Structodek® HD Fiberboard, Securock® and DensDeck®. Pull tests should always be conducted to determine proper fastener selection.

*Approved for warranty purposes only. Review project conditions with a Regional Technical Coordinator prior to use with wood decks. Performance validation (uplift) may not allow for use of these fasteners.

Storage

Store in unopened original containers protected for 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" (38 mm) insulation thickness over metal decks is required for proper operation of induction welding equipment.

LEED® Information

	<u>InvisiWeld Plate</u>	<u>InvisiWeld-S Plate</u>
Post-Consumer Recycled Content:	25%	25%
Post Industrial Recycled Content:	0%	0%
Manufacturing Location:	Agawam, MA	Leeds, United Kingdom

NOTE: LEED® is a registered trademark of the U.S. Green Building Council

Product 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)	8.5" x 8.5" x 6" 215.9 mm x 215.9 mm x 152.4 mm)
Pails per Pallet	40	40

Typical Properties		
Property	Minimum Performance	
	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	0.017" (0.43 mm) - 0.023" (0.58
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:

RhinoBond® is a registered trademark of OMG, Inc.

isoweld® is a registered trademark of SFS Intec

Structodek® is a registered trademark of Blue Ridge Fiberboard, Inc.

Securock® is a registered trademark of USG Corporation

DensDeck® is a registered trademark of G-P Gypsum Corporation

Galvalume® is a registered trademark of BIEC International, Inc.

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

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