



Drill-Tec™
TPO IW Plate



Drill-Tec™
PVC IW Plate

Description:

The Drill-Tec™ TPO IW Plate and Drill-Tec™ PVC IW Plate (IW = Induction Welding) are designed to attach insulation or cover boards to the deck while providing a non-penetrating mechanical attachment of single-ply membranes, utilizing an induction welded bond, to these plates.

The Drill-Tec™ TPO IW Plate and Drill-Tec™ PVC IW Plate are approximately 3 3/8" (85.4 mm) diameter Galvalume® steel plates with special thermoplastic polyolefin (TPO) or polyvinyl chloride (PVC) coatings, respectively.

Features:

- Drill-Tec™ IW plates are stamped from 22 ga. steel with a proprietary coating applied for either TPO or PVC applications
- Excellent wind uplift performance — helps reduce flutter*
- Helps save time and material — IW plates can help minimize the need for half sheets in the perimeters and corners, potentially reducing the number of welded seams.
- Engineered for compatibility with most common commercial roofing induction welding equipment
- Plates are stamped to identify TPO or PVC
- Wide, flat welding surface for optimal membrane adhesion

Application:

Plates are approved for use with steel, wood or structural concrete roof decks. The Drill-Tec™ IW Plates can be installed using the Drill-Tec™ #14 HD Fastener, Drill-Tec™ #15 EHD Fastener and Drill-Tec™ #12 Purlin Fastener. Please refer to GAF-published application instructions for approved substrates and additional information requirements at gaf.com.

- Minimum 2" insulation thickness is required for induction weld plate installation
- Ensure surface is clean, dry, and debris-free before applying membrane
- The heat sink/magnet surface should be clean of all debris when in use
- To ensure the optimal bond of the membrane to the plate, heat sinks/magnets should be left on plate long enough to cool the plate
- Always calibrate the welding machine per the manufacturer's instructions to the current working conditions to ensure the best bond

Material:

22 ga. AZ-50 Galvalume® Steel LEED®
Eligible Recycled Content: 49%

≥ 22 ga. steel, plywood†, wood plank, OSB§, wood joist, and structural concrete



Drill-Tec™ #14 HD Fastener
1 1/4" (31.8 mm) to 14" (357 mm),
#3 Phillips Head

≥ 22 ga. steel, plywood†, wood plank, OSB§, and LWIC†



Drill-Tec™ #15 EHD Fastener
2" (51 mm) to 24" (610 mm),
#3 Phillips Head

Purlins (Max. 3/16" thick)



Drill-Tec™ #12 Purlin Fastener
1 1/2" (38 mm) to 9 1/2" (241 mm),
#3 Square Drive

Codes and Compliance:

- FM Approved per Approval Standard 4470. Refer to RoofNav.com for approved assemblies.



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ATTENTION: Drill-Tec™ TPO and Drill-Tec™ PVC IW Plates must be protected from prolonged UV (ultra violet) sun exposure and surface contaminants. Keep buckets covered when not retrieving plates. All installed plates must be covered with membrane by the end of each workday.

* GAF guarantees and warranties only cover leaks caused by wind speeds up to 55 mph. Additional coverage can be purchased for eligible systems. Contact GAF for more information.

† In lightweight insulating concrete applications, the fastener must penetrate the steel pan.

‡ Min. 15/32 in. thick plywood.

§ Min. 19/32 in. thick plywood.



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For additional information, contact GAF Design Services at 1-877-423-7663 or designservices@gaf.com

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