

# DURO-TECH TPO INDUCTION PLATE

## DESCRIPTION:

Duro-TECH TPO Induction Plates ("Induction Plates") are designed to secure roof insulation and cover boards to approved substrates, then weld to Duro-TECH™ thermoplastic polyolefin ("TPO") membrane with induction-welding equipment.

Induction Plates are made with specially formulated, coated galvanized steel, have a diameter of 3 inches (76 mm), and are corrosion-resistant. They also feature a recessed center with a flat, wide, and raised welding surface to promote strong bonding.

### Compatible substrates:

- Polyisocyanurate (minimum 1 inch (25 mm))
- ISO HD
- Structural concrete deck
- Lightweight structural concrete deck
- Wood deck
- EPDM roofing system

### Substrates requiring 1-1/2-inch (38-mm) insulation:

- Purlins
- Metal deck
- Metal roofing
- Foil-faced insulation

### Substrates requiring an insulator:

- Extruded polystyrene (XPS)
- Expanded polystyrene (EPS)

### Approved insulating separators (minimum 4-inch (101.6 mm) diameter)

- Duro-Last® Induction Insulation Disc
- OMG® 102 mm Cardboard Disc
- Atlas® FR-10
- GAF® VersaShield®
- EPDM membrane (any thickness)
- TPO membrane (any thickness)

## ORDERING:

Induction Plates are ordered in pails of 500. Each pail weighs approximately 35 pounds (15.89 kg).

- 500-count pail (Item #1302T)

## STORAGE AND HANDLING:

- Always store in a dry location protected from the elements.
- Do **not** allow product exposure to prolonged UV (ultraviolet) sunlight.



## PRECAUTIONS:

- Do **not** overdrive or underdrive fasteners.
- Wear proper personal protective equipment, such as gloves and eye protection, per the Safety Data Sheet.
- All installed plates **must** be covered with TPO membrane by the end of each workday.

## INSTALLATION:

1. Place the Induction Plates in the necessary grid pattern on top of the insulation, cover board, or insulator per the Duro-TECH TPO Induction Weld Roofing System specification.
2. Using a conventional screw gun, the Induction Plate is attached with approved fasteners. The Induction Plate must have the logo facing up.
3. The Induction Plate is then welded to the TPO membrane using induction-welding tools per the Duro-TECH TPO Induction Weld Roofing System specification.

DURO-TECH TPO INDUCTION PLATE PROPERTIES	
Material	Galvalume® AZ55
Color	Gold/Yellow
Material Thickness	0.03 in. (0.8 mm)
Corrosion Resistance	Meets FM No. 4470 criteria
Pull-Through Resistance	800 lb (363 kg) from center hole
Adhesive Bond Strength	550 lb (250 kg)
Diameter	3 in. (76 mm)
Weight per Plate	0.07 lb (0.10 kg)