



ULTRAPLY™ TPO INVISIWELD™ SYSTEM Non-Penetrating Fastening System

INCREASE WIND UPLIFT RESISTANCE WHILE REDUCING LABOR AND MATERIAL COSTS.

The Firestone UltraPly TPO InvisiWeld system uses patented technology that produces a safe electromagnetic pulse which bonds the plate to the underside of the membrane via induction heating. The tool welds the TPO membrane to the InvisiWeld Plate in seconds and operates on 120 volts. The result is a high performance, non-penetrating, mechanically fastened roof system that is installed quickly and easily.

With the Firestone UltraPly TPO InvisiWeld system the wind load is distributed evenly across the roof, improving overall roof performance. With the traditional fastening method the load is concentrated at the seams. The UltraPly TPO InvisiWeld system achieves an FM 1-90 rating or above. In static testing, the InvisiWeld system bond resists over 500 lb_f (2.2 kN) of force.



HOW IT WORKS

- Special UltraPly TPO InvisiWeld plates are used to attach the Firestone insulation or cover board to the roof deck.
- The Firestone UltraPly TPO membrane is laid out. Plates are not required in the seams.
- The underside of Firestone UltraPly TPO membrane is welded to the InvisiWeld plates with the induction tool.
- The magnetic cooling clamps are placed on the membrane over the welded plate until the weld cools.



THE NEXT GENERATION OF CONTRACTOR FRIENDLY PRODUCTS



BENEFITS TO CONTRACTORS - LABOR COST SAVINGS

- The InvisiWeld system typically requires 25% to 50% fewer fasteners compared to conventional mechanically fastened TPO systems.
- The system can be applied even in cold conditions when adhering TPO with adhesives is impractical.
- The installation is simple and rapid with a well established technology performing since the 1990s.
- A seasoned operator can weld up to 300 plates an hour.



BENEFITS TO BUILDING OWNERS - BETTER PERFORMANCE

- InvisiWeld plates are welded on the underside of the single-ply membrane.
- Fasteners *do not* penetrate the membrane.
- Improved aesthetics over traditional mechanically fastened TPO.
- Provides a more balanced wind load distribution across the roof.
- Less membrane fatigue and movement due to wind compared to traditional mechanically fastened TPO systems.
- Significantly reduces noise from roof flutter.

WARRANTY

The Firestone UltraPly TPO Invisiweld system qualifies for a 20-year Red Shield™ Warranty.

- Easy and rapid installation
- No membrane penetrations
- Faster roof dry in
- Increased wind uplift resistance
- Symmetrical load distribution
- Elimination of half sheets
- Improved aesthetics
- Established technology



For more information, contact your local Sales Rep or visit
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