



Sample Assembly Shown

1. Firestone UltraPly Platinum TPO Membrane
2. Mechanical Attachment Method
3. Mechanically Attached or Adhered Cover Board (Optional for Platinum and Platinum P)
4. Mechanically Attached or Adhered Insulation
5. Lightweight Concrete Deck

Consult Firestone Technical Specifications, Guides and Details at [www.firestonebpc.com](http://www.firestonebpc.com)

#### Slope Requirement

Positive slope required for warranty.

#### Construction Type

New construction or complete tear-off down to a sound structural deck.

#### Building Height Limitation

Firestone UltraPly TPO Mechanically Attached Systems are limited to buildings 120' (36.6 m) or less.

#### Use of Air Barrier

An air barrier is required for projects with large wall openings greater than 10% of the total wall area. If air barrier is used, use the fully adhered insulation attachment rates.

#### Base Tie-Ins

Must be attached to substrates which provide a minimum of 200 lbf (1 kN) in any direction.

#### Increased Wind Speed and Codes

Any wind speed coverage exceeding 55 mph (88 km/h) or projects with code requirements must be reviewed by a Firestone Roof Systems Advisor.

#### Deck Requirement

- 2" Lightweight Concrete over 22 Gauge Steel Pan
- 2" Lightweight Concrete over Structural Concrete
- 2" Lightweight Concrete with Base Sheet Attachment

#### Fastener Type

- Firestone Heavy Duty Fastener (Into Steel or Structural Concrete Only)
- Firestone Concrete Drive Fastener (Into Structural Concrete Only)
- Firestone 1.7" LWC Base Ply Fastener (Base Sheet Attachment Only)
- Firestone 2-Piece Impact Nail Fastener (Base Sheet Attachment Only)

#### Insulation Adhesive\*

- Firestone I.S.O. Twin Pack™ Insulation Adhesive
- Firestone I.S.O. Stick™ Insulation Adhesive

\*NOTE: Max. 4' x 4' boards must be used when attaching insulation with adhesives.

#### Adhesive Attachment

- Bead Spacing: F: 12", P: 12", C: 12"

#### Membrane Requirement

- UltraPly Platinum TPO, .080"

#### Seaming Requirement

Firestone Wide Weld™ System OR Firestone Single Weld System (use robot welder). Joint covers are required at all T joints and at angle changes 1:12 or greater.

#### Membrane Attachment

- Maximum 8' Row Spacing, Fasteners Spaced Maximum 6" o.c.

#### Edge Metal System

- Firestone EdgeGard™ System
- Firestone AnchorGard™ System
- Firestone Aluminum Drain Bar
- Firestone Coping System

### Insulation Fastener and Insulation Plate Attachment Rates – Field Rates for Standard 55 mph Wind Speed

Insulation (Top Layer)	4' x 8'	Coverboard (Optional for Platinum and Platinum P)	4' x 8'
1.0" to 1.4" Firestone ISO 95+™ GL or RESISTA™ Insulation	5	½" Firestone ISOGARD™ HD Cover Board	5
1.5" to 1.9" Firestone ISO 95+ GL or RESISTA Insulation	5	¼" SECUROCK® Glass-Mat or DensDeck® / (Prime)	5 5/(5)
2.0" to 4.0" Firestone ISO 95+ GL or RESISTA Insulation	5	½" SECUROCK Glass-Mat or DensDeck / (Prime)	5 5/(5)
Firestone HailGard™ Composite Board	5	¾" SECUROCK Glass-Mat or DensDeck / (Prime)	5 5/(5)

### Detail Description

<b>Wall Terminations:</b>	Firestone Termination Bar with AP Sealant applied along the caulk lip. Surface mounted or inserted counter flashing in accordance with current Firestone 30 year details.
<b>Curb &amp; Wall Flashings:</b>	Curbs, walls, and expansion joints must be anchored with appropriate base tie-in detail, using HD Seam Plates and HD Fasteners. Curbs and walls must be flashed using a minimum 0.060" UltraPly TPO Membrane, or UltraPly TPO 18" Curb Flashing, per current Firestone 30 year details. Flashings may be sealed with welded details only and may include UltraPly TPO Coated Metal.
<b>Corners:</b>	UltraPly TPO Inside/Outside Corners, per current Firestone 30 year details.
<b>Roof Edges/Parapets:</b>	Firestone AnchorGard or EdgeGard Fascia or Drain Bar systems. Firestone Coping System or UltraPly TPO Coated Metal. Complete per current Firestone 30 year details.
<b>Penetrations:</b>	Flash with UltraPly Pipe Flashing (weldable), UltraPly TPO Penetration Pocket, or UltraPly TPO Unsupported Flashing, per current Firestone 30 year details.

#### NOTE:

1. Only Firestone brand products are covered in a Red Shield warranty.
2. Refer to the Firestone Technical Database at [www.firestonebpc.com](http://www.firestonebpc.com) for additional information regarding UltraPly TPO Roof Systems.
3. Refer to the Firestone RoofGenuity™ tool to create roof assemblies with high-performance Firestone products at [www.RoofGenuity.com](http://www.RoofGenuity.com).
4. DensDeck is a registered trademark of Georgia-Pacific Gypsum LLC.
5. It is the installing contractor's responsibility to follow applicable building codes.
6. SECUROCK is a registered trademark of USG Corporation.
7. Not acceptable on lightweight concrete with aggregate (such as perlite or vermiculite).