



1. Firestone UltraPly™ Platinum™ TPO Membrane
2. Fully Adhered with Bonding Adhesive
3. Mechanically Attached or Adhered Cover Board (Optional for Platinum P, Required for Platinum PH and Platinum PHW)
4. Mechanically Attached or Adhered Insulation
5. Lightweight Concrete Deck

Consult Firestone Technical Specifications, Guides and Details at www.firestonebpco.com

Slope Requirement

Positive slope required for warranty.⁵

Construction Type

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

Building Height Limitation

Firestone UltraPly™ TPO Adhered Systems are limited to buildings 250' (76.2 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.

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 codes 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 Adhesive⁷
- Firestone I.S.O.Stick™ Insulation Adhesive⁷

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

Adhesive Attachment

- Bead Spacing: F: 12", P: 6", C: 4"

Membrane Requirement

- UltraPly Platinum™ TPO, 0.080"
- ReflexEON Platinum™ TPO, 0.080"

Seaming Requirement

Firestone 5" WideWeld™ System OR 1.5" Single Weld System (use robot welder) stripped-in with 8" UltraPly TPO Cover Strip or UltraPly TPO QuickSeam™ Flashing. Joint covers are required at all joints and at angle changes 1:12 or greater.

Firestone Membrane Adhesive

- UltraPly Bonding Adhesive
- Single-Ply LVOC Bonding Adhesive
- Single-Ply LVOC Bonding Adhesive 1168

Edge Metal System

- Firestone EdgeGard™ System
- Firestone AnchorGard™ System
- 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 P, Required for Platinum PH and PHW)	4' x 8'
1.0" to 1.4" Firestone ISO 95+™ GL or RESISTA™ Insulation	16	Firestone ISOGARD™ HD Cover Board	16
1.5" to 1.9" Firestone ISO 95+ GL or RESISTA Insulation	16	1/4" SECUROCK® Gypsum-Fiber or DensDeck® / (Prime)	16 16/(16)
2.0" to 4.0" Firestone ISO 95+ GL or RESISTA Insulation	16	1/2" SECUROCK Gypsum-Fiber or DensDeck / (Prime)	16 16/(16)
Min. 1.5" Firestone HailGard™ Composite Board	16	5/8" SECUROCK Gypsum-Fiber or DensDeck / (Prime)	16 16/(16)
Firestone ISOGARD™ HD Composite Board	16		

Detail Description

Wall Terminations:	Firestone Termination Bar with AP Sealant applied along the caulk lip. Surface mounted or inserted counter flashing may also be used in accordance with current Firestone 30 year details.
Curb & Wall Flashings:	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 Firestone 30 year details. Flashings may be sealed with welded details only. Details may include UltraPly TPO Coated Metal.
Corners:	UltraPly TPO Inside/Outside Corners, per current Firestone 30 year details.
Roof Edges/Parapets:	Firestone AnchorGard™ or EdgeGard™ Fascia or Drain Bar systems. ANSI/SPRI ES-1 rated edge metal may also be used / Firestone Coping System or UltraPly TPO Coated Metal. Complete per Firestone 30 year details.
Penetrations:	Flash with UltraPly Pipe Flashing (weldable), UltraPly TPO Penetration Pocket, or UltraPly TPO Unsupported Flashing, per current Firestone 30 year details.

Notes:

1. Only Firestone brand products are covered in a Red Shield warranty.
2. Refer to the Firestone Technical Database at www.firestonebpco.com for additional information regarding UltraPly TPO Roof Systems.
3. Refer to the Firestone RoofGeniuity™ tool to create roof assemblies with high-performance Firestone products at www.RoofGeniuity.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).