



1. Firestone UltraPly™ TPO Membrane
2. Fully Adhered with Bonding Adhesive
3. Mechanically Attached or Adhered Cover Board (Optional)
4. Mechanically Attached or Adhered Insulation
5. Concrete Deck

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

**Slope Requirement**

Positive slope required for warranty.<sup>5</sup>

**Construction Type**

New construction, complete tear-off, or recover with any wet or damaged materials removed prior to installation.

**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**

- Minimum 3000 psi Structural Concrete

**Fastener Type**

- Firestone Heavy Duty Fastener
- Firestone Concrete Drive Fastener
- Firestone HailGard™ Fastener (with HailGard Composite Board or OSB only)

**Insulation Adhesive\***

- Firestone I.S.O. Twin Pack™ Insulation Adhesive
- Firestone I.S.O. Spray™ S Insulation Adhesive
- Firestone I.S.O. Fix™ II 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: 6", C: 4"
- Full Application (I.S.O. Spray S Insulation Adhesive)

**Membrane Requirement**

- UltraPly TPO, Minimum 0.060"
- ReflexEON™ TPO, Minimum 0.060"
- UltraPly Platinum™ TPO, 0.080"
- ReflexEON Platinum™ TPO, 0.080"

**Seaming Requirement**

Firestone 1.5" Single Weld System (use robot welder) OR 5" Firestone WideWeld™ System. 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)	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)
Firestone HailGard™ Composite Board	16	5/8" SECUROCK Gypsum-Fiber or DensDeck / (Prime)	16 16/(16)
Firestone ISOGARD™ HD Composite Board	16		

**Detail Description**

<b>Wall Terminations:</b>	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.
<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 Firestone 30 year details. Flashings may be sealed with welded details only. Details 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. 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.
<b>Penetrations:</b>	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](http://www.firestonebpco.com) for additional information regarding RubberGard EPDM 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.