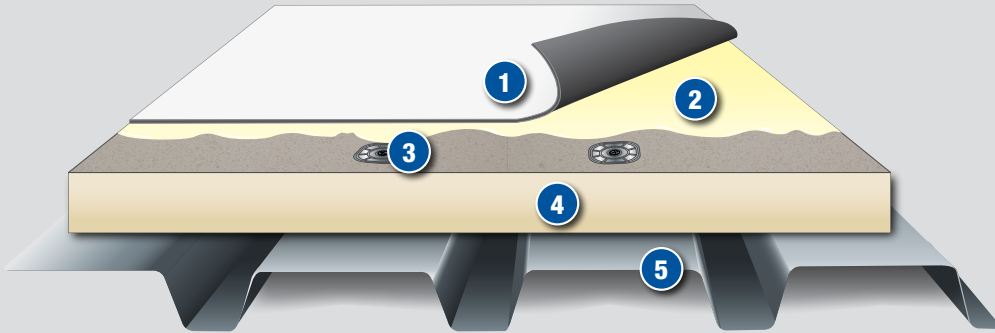


Sure-Weld® TPO

Fully Adhered Roofing Systems

Warranty Submittal Sheet



Typical Applications

- 1 Sure-Weld TPO Membrane
- 2 Carlisle Bonding Adhesive
- 3 Carlisle Fasteners and Plates
- 4 Carlisle Approved Insulation
- 5 Approved Roof Deck

Sure-Weld 5-, 10-, 15-, and 20-year Total System Warranties*

1. **Membrane:**
 - 45-mil Sure-Weld TPO (15-year max.)
 - 60-mil Sure-Weld TPO
 - 80-mil Sure-Weld TPO
 - 60-mil Spectro-Weld TPO
 - 80-mil Spectro-Weld TPO
 - 45-mil Sure-Weld HS (15-year max.)
 - 60-mil Sure-Weld HS
 - 80-mil Sure-Weld HS
2. **Membrane Bonding Adhesive:**
 - Sure-Weld TPO Bonding Adhesive
 - Aqua Base 120
 - Low-VOC 1168
 - Sure-Weld TPO Low-VOC Bonding Adhesive
 - CAV-GRIP III Low-VOC Adhesive/Primer
3. **Carlisle Insulation Fasteners and Insulation Plates or Adhesive:**
 - FAST™ Adhesive
 - Flexible FAST Adhesive
 - HP (steel/wood)
 - InsulFast™ (steel/wood)
 - ASAP (steel/wood)
 - CD-10 (concrete)
 - HP-X™ (steel/wood)
 - HD 14-10 (concrete)
 - GypTec® (gypsum or cementitious wood fiber)
 - Lite-Deck (gypsum or cementitious wood fiber)
4. **Cover Board (optional):**
 - SecurShield® HD
 - SecurShield HD Plus
 - EcoStorm VSH™
5. **Carlisle Approved Insulation:**
 - InsulBase® Polyiso
 - SecurShield Polyiso
 - SecurShield HD Composite
 - Insulfoam EPS (cover board required)
 - Insulfoam EPS Composite
 - XPS (cover board required)
 - StormBase®
 - OPTIM-R® (SecurShield HD coverboard required)
 - ChannelDry® (SecurShield insulation required)
6. **Vapor Barrier (optional for new construction and tear-offs only):**
 - VapAir Seal™ 725TR (direct to concrete, wood, gypsum, or thermal barrier)
 - VapAir Seal MD (direct to metal deck only, fastening of above insulation board required)
 - SureMB 90/120TG Base (direct to concrete or thermal barrier only)
 - SureMB 90 Base Ply (see Carlisle Specs and Details)
 - Polyethylene (by others, fastening of above insulation board required)
 - G2 Base Sheet
 - Vented Base Sheet
7. **Thermal Barrier (optional for new construction and tear-offs only, not for use directly over concrete decks):**
 - DensDeck Prime
 - SECUROCK Gypsum-Fiber
8. **Deck:**
 - 22-gauge steel or heavier
 - Structural concrete
 - Wood plank
 - Minimum 1½" plywood
 - Gypsum
 - Cementitious wood fiber
 - Approved lightweight insulating concrete
9. **Metal Edging:**
 - Shop-fabricated metal
 - Carlisle SecurEdge™
 - Metal by others
10. **Applicable Details:**
 - A-1, U-1, U-2, U-3, U-5, U-6, U-8, U-9, U-12, U-13, U-15, U-16, U-18, U-20, U-24.**
11. **Construction Type:**
 - New construction
 - Complete tear-off
 - Re-cover (remove and replace wet or damaged insulation prior to installation)
12. **Slope:**
 - Positive slope required.

*Buildings up to 100-feet tall with 55-mph wind speed coverage. Projects requiring warranty wind speeds greater than 55 mph should be reviewed by a Carlisle representative. All products must be supplied by Carlisle to be included in the warranty coverage. All roof systems can only be accepted upon inspection by a Carlisle SynTec Field Service Representative. Carlisle reserves the right to change or enhance any of the above components due to specific or unique project conditions. The intent of this document is to verify the proposed roof assembly meets the requested warranty. Carlisle is not responsible for local and state building code requirements, and any discrepancy should be clarified by the design professional of record. Refer to Carlisle's most currently published specifications and details for additional information.

**Includes all iterations of each detail. For example, U-1 encompasses U-1A, U-1B, U-C, U-1D, and U-1F.

Sure-Weld TPO

Fully Adhered Roofing Systems

Insulation Fastening Rates 5-, 10-, 15-, and 20-year Warranties

Top layer of insulation ⁵ / coverboard	4' x 8' board ^{2,3}	Bead adhesive spacing for 4' x 4' boards ^{1,4}	
		Field	Field Perimeter
Minimum 1.5"-thick Carlisle InsulBase Polyiso, SecurShield Polyiso, or SecurShield HD Composite Polyiso Insulation	10	12" o.c.	6" o.c.
Minimum 2.0"-thick Carlisle InsulBase Polyiso, SecurShield Polyiso, or SecurShield HD Composite Polyiso Insulation	8	12" o.c.	6" o.c.
½"-thick SecurShield HD Plus ⁶ , InsulBase Polyiso RL, or EcoStorm VSH	8	12" o.c.	6" o.c.
Minimum ¼"-thick DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board ⁶	12	12" o.c.	6" o.c.
½"-thick SecurShield HD or HP Recovery Board ⁶ SecurShield HD RL Min. 1" thick InsulBase Polyiso	16	12" o.c.	6" o.c.
1½" StormBase	17	12" o.c.	6" o.c.
OPTIM-R	N/A	12" o.c.	6" o.c.
ChannelDry	16	N/A	N/A

¹ Insulation bead spacing shall not exceed 6" on center when adhered directly to steel decking.

² For gypsum, oriented strand board, and cementitious wood fiber decks, insulation board must be fastened with 16 fasteners and insulation plates per 4' x 8' board. Beads of adhesive shall not exceed 6" on center directly over gypsum and cementitious wood fiber decks.

³ For buildings 51-100' tall, enhance a minimum 12'-wide perimeter with 50% more insulation fasteners and plates.

⁴ Existing roof: insulation bead spacing shall not exceed 6" on center in the field and 4" on center in the perimeters and corners over gravel-surface BUR.

⁵ Minimum of 1.5"-thick insulation is required over existing coal tar pitch.

⁶ Cover boards must be installed over a minimum 1"-thick Carlisle approved insulation on Steel Decks.