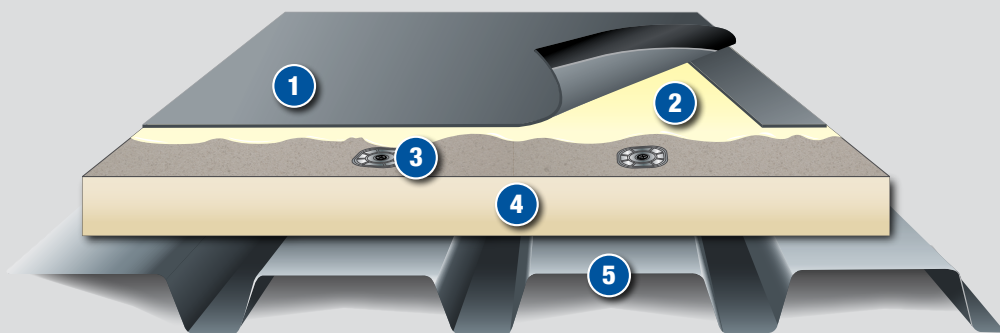


Sure-Seal® EPDM

Fully Adhered Roofing Systems

Warranty Submittal Sheet



Typical Applications

- 1 Sure-Seal EPDM Membrane with Factory-Applied Tape™
- 2 Carlisle Bonding Adhesive
- 3 Carlisle Fasteners and Plates
- 4 Carlisle Approved Insulation
- 5 Approved Roof Deck

Sure-Seal, Sure-White®, and Sure-Tough™ 5-, 10-, 15-, and 20-year Total System Warranties*

1. **Membrane:**
 - 45-mil Sure-Seal EPDM (15-year max.)
 - 60-mil Sure-Seal EPDM
 - 60-mil Sure-Seal EPDM SAT
 - 90-mil Sure-Seal EPDM
 - 45-mil Sure-Tough EPDM (15-year max.)
 - 60-mil Sure-Tough EPDM
 - 60-mil Sure-Tough EPDM SAT
 - 75-mil Sure-Tough EPDM
 - 60-mil Sure-White EPDM
 - 60-mil Sure-White EPDM SAT
 - 90-mil Sure-White EPDM
 - 60-mil Sure-Seal Cool Gray EPDM
2. **Membrane Bonding Adhesive:**
 - 90-8-30A
 - Aqua Base 120
 - Solvent-Free (not for use with SecurShield® products)
 - EPDM x-23 Low-VOC
 - Low-VOC 1168
 - CAV-GRIP® III
3. **Carlisle Insulation Fasteners and Insulation Plates or 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 Eco
 - SecurShield HD Composite
 - StormBase™
5. **Carlisle Approved Insulation:**
 - DensDeck StormX Prime
 - SECUROCK UltraLight Coated Glass Mat
 - DEXcell™ FA
 - DEXcell FA VSH
 - DEXcell Cement Roof Board
 - SecurShield HD
 - SecurShield HD Plus
 - EcoStorm VSH™
 - SECUROCK® Gypsum-Fiber (new construction and tear-offs only)
 - DensDeck® Prime (new construction and tear-offs only)
 - HP Recovery Board (15-year max. on re-cover)
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)
7. **Thermal Barrier (optional for new construction and tear-offs only, not for use directly over concrete decks):**
 - G2 Base Sheet
 - Vented Base Sheet
 - DensDeck Prime
 - DensDeck StormX Prime
 - DEXcell FA
 - DEXcell FA VSH
 - SECUROCK UltraLight Coated Glass-Mat
 - SECUROCK Gypsum-Fiber
8. **Deck:**
 - 22-gauge steel or heavier
 - Structural concrete
 - Wood plank
 - Minimum 1 1/2" plywood
 - Gypsum
 - Cementitious wood fiber
 - Approved lightweight insulating concrete
9. **Metal Edging:**
 - Shop-fabricated metal
 - Carlisle SecurEdge™
 - Metal by others
10. **Applicable Details:**
 - 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-22, U-24, U-30**
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' 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-1C, U-1D, and U-1F.

Sure-Seal® EPDM

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	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 , or EcoStorm VSH	8	12" o.c.	6" o.c.
Minimum ¼"-thick DensDeck Prime, DEXcell Glass Mat, DEXcell FA, or SECUROCK Gypsum-Fiber Roof Board ⁶	12	12" o.c.	6" o.c.
½"-thick SecurShield HD, SecurShield HD RL Min. 1"-thick InsulBase Polyiso, or HP Recovery Board ⁶	16	12" o.c.	6" o.c.
1 ½" StormBase ⁶	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.