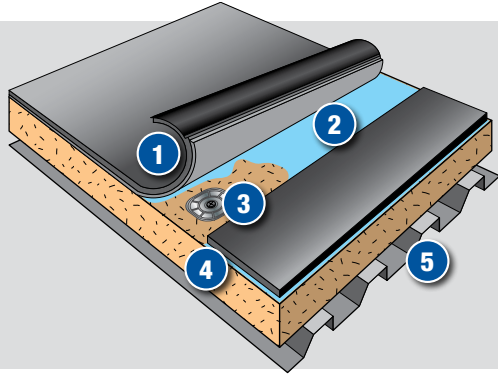


FleeceBACK®

Fully Adhered Roofing Systems

Warranty Submittal Sheet



Typical Applications

- 1 Carlisle EPDM/TPO/PVC FleeceBACK Membrane
- 2 Carlisle Adhesive
- 3 Carlisle Approved Attachment
- 4 Carlisle Approved Insulation
- 5 Approved Roof Deck

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

1. Membrane***:

100-mil Sure-Seal® EPDM FleeceBACK (15-year max.)
 115-mil Sure-Seal EPDM FleeceBACK
 145-mil Sure-Seal EPDM FleeceBACK
 115-mil Sure-Seal EPDM FleeceBACK RL
 115-mil Sure-White® EPDM FleeceBACK
 145-mil Sure-White EPDM FleeceBACK
 100-mil Sure-Weld® TPO FleeceBACK (15-year max.)
 115-mil Sure-Weld TPO FleeceBACK
 115-mil Sure-Weld TPO FleeceBACK RL
 135-mil Sure-Weld TPO FleeceBACK
 105-mil Sure-Flex™ PVC FRS FleeceBACK (15-year max.)
 115-mil Sure-Flex PVC FRS FleeceBACK
 135-mil Sure-Flex PVC FRS FleeceBACK
 105-mil Sure-Flex PVC KEE HP FleeceBACK
 115-mil Sure-Flex PVC KEE HP FleeceBACK
 135-mil Sure-Flex PVC KEE HP FleeceBACK

2. Membrane Bonding Adhesive:

Flexible FAST™ Adhesive
 HydroBond™ Water Based Bonding Adhesive
 Aqua Base 120

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®
 SecurShield HD RL
 SECUROCK® Gypsum-Fiber (new construction and tear-offs only)
 DensDeck® Prime or DensDeck (new construction and tear-offs only)
 HP Recovery Board (15-year max. on re-cover)

5. Carlisle Approved Insulation:

InsulBase® Polyiso
 InsulBase Polyiso RL
 StormBase®
 OPTIM-R® (SecurShield HD coverboard required)
 ChannelDry® (SecurShield insulation required)
 SecurShield Polyiso
 SecurShield HD Composite
 Insulfoam EPS (cover board required)
 Insulfoam EPS Composite
 XPS (cover board 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:

FB-1, FB-2, FB-3, FB-6, FB-8, FB-9, FB-12, FB-15, FB-16, FB-18**

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 FB-1, encompasses FB-1A, FB-1B, FB-1C, FB-1D, FB-1E and FB-1F.

***Membrane adhesive bead spacing: Up to 15-year: Maximum 12" on center in the field and 6" on center in the perimeters and corners. 20-year: Maximum 6" on center bead spacing.

FleeceBACK®

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.