



SBS Hot Applied System Concrete Deck

**Red Shield™
Warranty Term
Up to 25 Years, 55 mph**



- Elevate™ Granule-Surfaced SBS Cap Sheet
- Elevate SBS Base Sheet
- Asphalt Primer (ASTM D 41)
- Underlying Assembly:
 - Cover Board (required over insulation) – Mechanically Attached or Adhered
 - Insulation (Optional) – Mechanically Attached or Adhered
 - Concrete Deck

Consult Elevate Technical Specifications, Guides and Details at www.HolcimElevate.com

Slope Requirement:

- Positive drainage required $\geq 1/4$ " (2.1 %) slope required for warranties ≥ 20 years

Construction Type:

- New Construction Complete Tear-off Recover (Any wet or damaged materials removed prior to installation)

Building Height Limitation:

Adhered Systems are limited to buildings 250' (76.2 m) or less. Contact Holcim for heights greater than 250' (76.2 m).

Air Barrier:

An air barrier is recommended for projects with large wall openings greater than 10% of the total wall area.

Vapor Barrier:

- V-Force™ and Thermal Barrier V-Force w/o Thermal Barrier⁶ 4-6 mil poly

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 code requirements must be reviewed by a Holcim Regional Technical Coordinator.

Deck Requirement:

- Minimum 2,500 psi (17.2 MPa) Structural Concrete, min. 3" (76 mm) thick

Insulation Fasteners and Plates:

- Heavy Duty Fasters and Insulation Plates
 Concrete Drive Fastener and Insulation Plates

Insulation Adhesive*:

- I.S.O. Twin Pack™ I.S.O. Spray™ R I.S.O.Stick™ Twin Jet
 Full mopping of approved ASTM D312 Type III or IV asphalt (Type IV required for warranties ≥ 20 years)

*NOTE: Max. 4' x 4' boards must be used when attaching insulation with adhesives. Cleaning of the metal deck may be required to remove processing oils.

Insulation Adhesive Attachment:

- Max. 15 Year Warranty:**
 Bead Spacing: F: 12", P: 12", C: 12" **20 Year Warranty:**
 Bead Spacing: F: 12", P: 6", C: 6"
 Full Coverage

Membrane Attachment:

- Self-Adhered Full mopping of approved ASTM D312 Type III or IV asphalt (Type IV required for warranties ≥ 20 years)
 Fully Heat-Welded Elevate MB Multi-Purpose Cold Adhesive Hybrid

Surfacing:

- SBS Granule-Surfaced Cap Sheet
 SBS Granule-Surfaced Cap Sheet coated with AcryliTop™ PC-100
NOTE: An UltraWhite™ cap sheet or AcryliTop PC-100 Coating is required for a 25-year Red Shield™ Warranty.

Elevate Factory Formed Edge Metal System:

- Coping System (QS-EDGE METAL-901) Fascia System (QS-EDGE METAL-902)
 Water Control (QS-EDGE METAL-903) Wood Nailer Alternative (QS-EDGE METAL-904)

Elevate ES-1 Cleat Program Metal Offering (5 – 20 Year Warranty):

- Drip Edge Gravel Stop Flat Coping Snap-On Coping Snap-On Fascia Tapered Coping

Non-Factory Formed Edge Conditions:

- Elevate Drain Bar Elevate Termination Bar Elevate Approved Detail

Edge Metal System

- Elevate Factory Formed Edge Metal Fascia or Coping System Elevate Cleat Program*

*Max warranty 20-years and available to contractors enrolled in the Elevate Cleat Program

Substrate Attachment Rates for Standard 55 mph Wind Speed (Top Layer, 4' x 8' Board)

Thickness	Substrate Material	Minimum Fasteners
<input type="checkbox"/> 1.0" - 1.4"	<input type="checkbox"/> ISOGARD GL / ISO 95+ GL or <input type="checkbox"/> ISOGARD CG / Resista	16
<input type="checkbox"/> 1.5" - 1.9"		12
<input type="checkbox"/> 2.0" - 4.0"		8
<input type="checkbox"/> 1.5" - 1.9"	<input type="checkbox"/> ISOGARD HG / HailGard Composite / <input type="checkbox"/> OSB / <input type="checkbox"/> Plywood (Plate and Fastener)	12
<input type="checkbox"/> 2.0" - 4.0"		8
<input type="checkbox"/> ISOGARD HG / HailGard Composite / OSB / Plywood (HailGard Fastener)		16
<input type="checkbox"/> ISOGARD HD Composite		12
<input type="checkbox"/> ISOGARD HD Cover Board		12
<input type="checkbox"/> 1/4"	<input type="checkbox"/> SECUROCK® Brand Gypsum-Fiber Roof Board+ NOTE: Required when using torch or hot asphalt for membrane securement.	10
<input type="checkbox"/> 1/2"		8
<input type="checkbox"/> 5/8"		8
<input type="checkbox"/> 1/4"	DensDeck® Prime Roof Board NOTE: Required when using torch or hot asphalt for membrane securement.	12
<input type="checkbox"/> 1/2"		8
<input type="checkbox"/> 5/8"		8
<input type="checkbox"/> 5/8"	DensDeck Prime StormX™ Roof Board	8
<input type="checkbox"/> 1/4"	DEXcell® Glass Mat Roof Board NOTE: Not for use with adhered membrane or insulation adhesives. May be used as insulation layer or thermal barrier layer when fastened through.	12
<input type="checkbox"/> 1/2"		8
<input type="checkbox"/> 5/8"		8
<input type="checkbox"/> 1/4"	DEXcell FA™ Glass Mat Roof Board NOTE: Required when using torch or hot asphalt for membrane securement.	12
<input type="checkbox"/> 1/2"		8
<input type="checkbox"/> 5/8"		8
<input type="checkbox"/> 7/16"	DEXcell Cement Roof Board NOTE: Required when using torch or hot asphalt for membrane securement.	10
<input type="checkbox"/> 5/8"		8
<input type="checkbox"/> 5/8"	DEXcell FA VSH™ Glass Mat Roof Board NOTE: Required when using torch or hot asphalt for membrane securement.	8

Assembly Options – Warranty Terms

Warranty (Years)	Fully Mopped or Heat-Welded Base Ply	Fully Mopped or Heat-Welded Cap Sheet	Flashings
5 - 10	Optional on Concrete Deck <input type="checkbox"/> MB Base <input type="checkbox"/> Any Base Sheet Below	<input type="checkbox"/> SBS Cap <input type="checkbox"/> SBS FR <input type="checkbox"/> SBS FR Torch	<input type="checkbox"/> One ply of fully adhered SBS granule-surfaced cap sheet
15 - 20	<input type="checkbox"/> SBS Base <input type="checkbox"/> SBS Glass Torch Base <input type="checkbox"/> SBS Glass Torch Base 1.5 <input type="checkbox"/> SBS Poly Base <input type="checkbox"/> SBS Poly Torch Base <input type="checkbox"/> SBS Premium Base <input type="checkbox"/> SBS Premium Poly Base <input type="checkbox"/> SBS Smooth <input type="checkbox"/> BASEGARD™ SA Base Sheet	<input type="checkbox"/> SBS Glass <input type="checkbox"/> SBS Glass FR <input type="checkbox"/> SBS Glass FR Torch <input type="checkbox"/> SBS Premium <input type="checkbox"/> SBS Premium Torch <input type="checkbox"/> SBS Premium FR <input type="checkbox"/> SBS Premium FR Torch	Two Plies, Consisting of: <input type="checkbox"/> One ply of fully adhered SBS base sheet, AND <input type="checkbox"/> One ply of fully adhered SBS granule-surfaced cap sheet, OR <input type="checkbox"/> One ply of heat welded SBS Metal Flash AL, OR <input type="checkbox"/> UltraFlash™ One-Part or Two-Part Liquid Flashing
25	<input type="checkbox"/> SBS Glass Torch Base <input type="checkbox"/> SBS Poly Base <input type="checkbox"/> SBS Poly Torch Base <input type="checkbox"/> SBS Premium Base <input type="checkbox"/> SBS Premium Poly Base <input type="checkbox"/> SBS Smooth <input type="checkbox"/> BASEGARD™ SA Base Sheet	<input type="checkbox"/> SBS Glass FR Torch <input type="checkbox"/> SBS Premium <input type="checkbox"/> SBS Premium Torch <input type="checkbox"/> SBS Premium FR <input type="checkbox"/> SBS Premium FR Torch	Two Plies, Consisting of: <input type="checkbox"/> One ply of fully adhered 25-year eligible SBS base sheet, AND <input type="checkbox"/> One ply of fully adhered SBS UltraWhite™ cap sheet, OR <input type="checkbox"/> One ply of heat welded SBS Metal Flash AL, OR <input type="checkbox"/> UltraFlash™ Two-Part Liquid Flashing

NOTE:

1. Only Elevate brand products are covered in a Red Shield warranty.
2. Refer to the Elevate Technical Database at www.HolcimElevate.com for additional information regarding appropriate Roof Systems.
3. DensDeck is a registered trademark of Georgia-Pacific Gypsum LLC, SECUROCK is a registered trademark of USG Corporation, and Structodek is a registered trademark of Blue Ridge Fiberboard, Inc.
4. It is the installing contractor's responsibility to follow all applicable building codes.
5. Contact Holcim Technical Services for full warranty requirements.
6. Thermal barrier required when using V-Force over a Steel Deck on FM Insured or FM Specified projects.
7. AP Fasteners are approved for use on Wood Decks. Steel Deck applications are limited to 15-year warranty coverage.
8. Membrane may not be adhered directly to ISOGARD HD or ISOGARD CG with Hot Asphalt.
9. It is not recommended to encapsulate DensDeck in hot asphalt. When mopping to DensDeck, the MAXIMUM hot asphalt temperature is 450 °F (232 °C).
10. BASEGARD SA Base Sheet must be applied over SA Primer or heat activated.
11. Wood walls require a mechanically fastened MB Base Sheet beneath the flashing assembly.

Please contact Holcim Technical Services at 800-428-4511 for further information.

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