

Sure-Weld FleeceBACK Adhered Roofing System

“Attachment IV”

20-Year Total System Warranty Projects

May 2006

Revised January 2009

Information contained in this Attachment outlines the necessary enhancements required for projects where a 20-year Total System Warranty is specified. At the applicator's or specifier's discretion, projects may be forwarded to the Carlisle System Design and Review Group for evaluation prior to installation.

A. Restrictions/Applicability

1. **Sure-Weld FleeceBACK 115 TPO Membrane** is required.
2. The building height shall be limited to maximum 100'.
3. All products specified for this roofing system must be products manufactured or marketed by Carlisle.
4. Shop drawings must include all pertaining details.
5. The minimum slope requirement is 1/8" per horizontal foot. Sufficient drainage must be provided by tapering the structure, the use of tapered insulation and the proper placement of roof drains. On existing projects, ponding of water should be eliminated through the addition of crickets and saddles.
6. On recover projects where the existing roofing material is to be left in place, all wet roofing material must be totally removed. A thorough roof investigation utilizing moisture scanning devices is strongly recommended.
7. Mechanical attachment of roof insulation is not permitted for projects with Fibrous Cement and Gypsum decks. FAST Adhesive must be used and peak gust wind speed shall be limited to 90 mph.

B. Acceptable Deck Types

1. Steel (22 gauge or heavier).
2. Structural Concrete (minimum 3,000 psi).
3. Plywood (minimum 15/32" thick).
4. Wood Planks (minimum 1" thick).
5. Fibrous Cement and Gypsum (insulation/underlayment secured with FAST Adhesive)
6. Lightweight Insulating Cellular Concrete (minimum 200 psi)

C. Acceptable Insulation/Underlayment

1. Minimum 1" Carlisle Polyisocyanurate.
2. Minimum 1/4" thick Dens-Deck over any Carlisle Insulation.
3. 1/2" thick HP Recovery Board over any Carlisle insulation.
4. OSB/Polyisocyanurate Composite (supplied by Carlisle).
5. Minimum 7/16" OSB over any Carlisle insulation. OSB must be mechanically fastened.

D. Insulation Securement

1. FAST Adhesive may be used to attach polyisocyanurate, EPS, extruded polystyrene, Dens-Deck or HP Recovery Board.
2. When mechanical securement is specified:
 - a. Minimum 1-1/2" Polyiso – 1 per 4 square feet.
 - b. Polyisocyanurate less than 1-1/2" thick – 1 per 2 square feet.
 - c. HP Recovery Board or Dens-Deck – 1 per 2 square feet.
 - d. OSB Board – 17 per 4' x 8' board as outlined in Carlisle Specifications.

E. Splice Requirements

1. Along selvege edges, a minimum 1-1/2" wide hot air weld is required.
2. At end laps, butt membrane together and overlay with 6" wide Reinforced Sure-Weld membrane hot air welded along all edges.

F. Metal Accessories

1. Carlisle SecurEdge™ (secured with HP Fasteners), SecurEdge 1000, 2000 or 3000, Sure-Weld Coated Metal or Metal Termination Bar/Gutter.

Note: Conventional metal fascia systems which require flanges to be “stripped-in” are not acceptable.
2. Carlisle Termination Bar is required when a compression bar termination is specified and must be utilized with counterflashing by others.
3. Certain metal accessories by others may be used upon Carlisle’s acceptance.

G. Warranty Wind Speed (Maximum Peak Gusts)

1. 80 mph – adhered to standard Polyisocyanurate or 1/4" thick Dens-Deck.
2. 90 mph – adhered to 25 psi Polyisocyanurate or 1/2" thick Dens-Deck or HP Recovery Board.
3. 100 mph – adhered to OSB or 5/8" thick Dens-Deck Prime (not available for projects with gypsum and fibrous cement decks).
4. 120 mph – adhered to OSB or 5/8" Dens-Deck Prime (24 fastener/plate per 4' x 8' board). SecurEdge 2000 or 3000 edging only. Not available for projects with gypsum and fibrous cement decks.