

July 2023 Spec and Details Update  
August 7, 2023

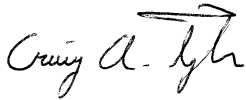
**To: Carlisle SynTec Systems' Manufacturer's Representatives, Distributors, and Authorized Applicators**

Carlisle's specifications and details have been updated and uploaded to the Carlisle SynTec Systems website. Some highlights of the changes include:

- Addition of EPDM 5' sheets with Factory-Applied Tape™.
- Addition of Gray Universal Single-Ply Sealant.
- TPO and PVC are now two independent specifications.
- Addition of 16'-wide TPO rolls.
- Polyester Reinforced membrane is now available in widths of 40.5", 5', 81", and 10' wide (white, gray, light gray, slate gray, and tan).
- Fiberglass Reinforced membrane is now available in widths of 10' (white, gray, light gray, and tan).
- Addition of 60-mil Sure-Flex™ PVC and Sure-Flex KEE HP Reinforced Cover Strip.
- Addition of tan, gray, and light gray PVC Universal Corners and Pipe Flashings.
- Detail FB-27, Bullet #7 revised: Allow Flexible FAST™ Adhesive to rise and develop "string/body" (approx. 1½ – 2 min.) String time will vary based on environmental conditions like temperature and humidity. Do not allow the adhesive to over-cure prior to setting insulation boards.

The complete list of changes can be found on the following pages of this announcement.

Sincerely,



Craig Tyler  
Manager, Specification Develop & Green Initiatives

## Design Advisory – July 2023 Specification Update

### **EPDM:**

#### Specifications:

- Addition of 5' sheets with Factory-Applied Tape.
- Revisions to 15- and 20-year warranted products.
- Removed limitation of ½" SecurShield® HD at 90-mph; removed limitation of ½" SecurShield HD Plus at 120-mph.
- Revised Table IV – Mechanically Fastened Membrane Fastening Criteria from "Wood Decks" to "Wood (OSB/Plywood) Decks".
- Table I and II: Revised "Building Distance from Coastline".
- Addition of Polyisocyanurate InsulBase NH and SecurShield NH Polyisocyanurate.
- Addition of InsulBase HD for mechanically fastened applications.
- Addition of EcoStorm VSH™ Cover Board.
- Revised Building Distance from Coastline for Membrane Fastening Criteria.
- Addition of gray Universal Single-Ply Sealant.
- Addition of SecurEdge 300 and 400 product lines to Edges and Terminations.
- Updated detail references throughout to reflect current detail numbering system.
- Revised EPDM Form Spec to eliminate 3" seam tape.
- Quality Assurance Addition of note to require polyisocyanurate insulation to meet PIMA Quality Mark Certified LTTR value through third-party verification meeting ASTM C 1289, Type II, Class 1, Grade 2.

#### Details:

- Update to wall flashing height requirement to "above slush line".
- Pressure-Sensitive Cover Strip permitted for flashing of metal flanges.
- List of referenced details simplified to one comprehensive list of details.
- MF-8A.1: Flashing revised for clarity.
- U-2B.1: Graphic clarification for base layer of membrane.
- U-5D title revised to "Self-Flashing Curb, Roof Hatch, or Skylight".
- U-5E: continuous metal flange added for clarity.
- U-2B: graphics revised for clarity.
- U-13A: graphics revised for clarity.
- U-13B: Elastoform Flashing and Lap Sealant revised for clarity.
- U-16B: callout for PS Elastoform Flashing added.
- U-18A: added note "Scuppers without a continuous watertight design must be flashed in per detail U-15 Outside Corners".
- U-18A: Note added referencing corners on Detail U-15; Title revised to "Metal Scupper with Continuous Flange at Deck".

### **TPO:**

#### Specifications:

- July 2023 TPO Specification created from January 2023 Thermoplastic Specification. TPO and PVC are now two independent specifications.

- Revised Table III – Mechanically Fastened Membrane Fastening Criteria from “Wood Decks” to “Wood (OSB/Plywood) Decks”.
- Table I and II: Revised “Building Distance from Coastline”.
- Addition of Polyisocyanurate InsulBase NH and SecurShield NH Polyisocyanurate.
- Addition of InsulBase HD for mechanically fastened applications.
- Addition of EcoStorm VSH Cover Board.
- Addition of 16'-wide rolls.
- List of Special Colors added (slate gray, patina green, Rock Brown, Medium Bronze, Terra Cotta)
- Low-VOC Bonding Adhesive 1168 added.
- Quality Assurance Addition of note to require polyisocyanurate insulation to meet PIMA Quality Mark Certified LTTR value through third-party verification meeting ASTM C 1289, Type II, Class 1, Grade 2.

#### Details:

- No revisions required.

#### **PVC:**

##### Specifications:

- July 2023 PVC Specification created from January 2023 Thermoplastic Specification. TPO and PVC are now two independent specifications.
- Polyester Reinforced membrane is now available in widths of 40.5", 5', 81", and 10' wide (white, gray, light gray, slate gray, and tan).
- Fiberglass Reinforced membrane is now available in widths of 10' (white, gray, light gray, and tan).
- Revised Table I – Mechanically Fastened or Adhered Membrane Systems to remove Sure-Flex 80-mil from 30-year warranty.
- Revised Table III – Mechanically Fastened Membrane Fastening Criteria from “Wood Decks” to “Wood (OSB/Plywood) Decks”.
- Table I and II: Revised “Building Distance from Coastline”.
- Addition of Polyisocyanurate InsulBase NH and SecurShield NH Polyisocyanurate.
- Addition of InsulBase HD for mechanically fastened applications.
- Addition of EcoStorm VSH Cover Board.
- Addition of 60-mil Sure-Flex PVC and Sure-Flex KEE HP Reinforced Cover Strip.
- Addition of tan, gray, and light gray PVC Universal Corners and Pipe Flashings.
- Addition of 80- and 110-mil thick Sure-Flex PVC Heat Weldable Walkway Rolls.
- Section 3.04, C.2: Mechanically Fastened Roof Systems fastening rate revised to 1.25 fasteners per 8 square feet (5 fasteners in a 4' x 8' board) for min. 1½" insulation and coverboards. Insulation less than 1-1/2" requires the use of 8 fasteners and plates in a 4' x 8' board. (1 per 4 square feet).
- Quality Assurance Addition of note to require polyisocyanurate insulation to meet PIMA Quality Mark Certified LTTR value through third-party verification meeting ASTM C 1289, Type II, Class 1, Grade 2.

## Details:

- U-13F: Metal separator added between shingles and membrane.
- U-18D: Revised to remove primer over PVC flashing, below Universal Single-Ply Sealant.
- U-25C: Revised verbiage in chart.

## **FleeceBACK:**

### Specifications:

- Table I and II: Revised "Building Distance from Coastline".
- Sure-Flex Reinforced Cover Strip available in 60- and 80-mil thicknesses.
- Sure-Flex Reinforced Cover Strip available in 60-mil in rolls 8" wide by 100' long in white only.
- Sure-Flex Reinforced KEE HP Cover Strip available in 60- and 80-mil thicknesses.
- PVC Universal Corners and Pipe Flashings available in white, tan, gray, and light gray.
- Sure-Flex PVC Heat Weldable Walkway Rolls available in 80- and 110-mils thick.
- FleeceBACK: 1.5"-thick polyisocyanurate for 80 mph changed to 25 psi 1.5" polyisocyanurate.
- FleeceBACK: 702LV Primer added.
- Attachment II Table II: Note added KEE HP that states FleeceBACK PVC polyester reinforced can be used.
- Attachment III, Table I: Title changed to Plywood/OSB Decks.
- Coverage Rates: 5-gallon jugs full spray coverage rate revised to 600-1,000 per PDS.
- Attachment II: Warranty chart relabeled to reflect a 20-year warranty. Consistent with bareback MF language.
- Attachment II: Note (7) added to modified bitumen line for FleeceBACK PVC.
- The maximum building height for TPO and PVC revised to 60'.
- The number of perimeter sheets was revised to incorporate less than 3 miles fastening criteria and follow the Thermoplastic chart.
- Quality Assurance Addition of note to require polyisocyanurate insulation to meet PIMA Quality Mark Certified LTTR value through third-party verification meeting ASTM C 1289, Type II, Class 1, Grade 2.
- FleeceBACK Specification and FleeceBACK Spec Supplement: Versico FleeceBACK FR revised from 15 years to 20 years.
- Attachment IV: Addition of SecurShield HD Composite RL to Insulation/Underlayments.

## Details:

- Detail FB-27, Bullet #7 revised: Allow Flexible FAST Adhesive to rise and develop "string/body" (approx. 1½ – 2 min.) String time will vary based on environmental conditions like temperature and humidity. Do not allow the adhesive to over-cure prior to setting insulation boards.
- Detail FB-6B.1: Removed note "completely remove the fleece in clamping ring area".

## **FleeceBACK AFX:**

### Specifications:

- FleeceBACK AFX: Bullet 3 revised as follows, "After membrane applying the Cold Applied Adhesive, immediately after adhesion, brush down the sheet with a stiff bristled broom using light to medium pressure. CAUTION: Do not use weighted rollers or heavy pressure when brooming the membrane to avoid asphalt saturation of the fleece."
- FleeceBACK AFX: Solvent-Free Bonding Adhesive removed.

### Details:

- G-04-20 Adhered Applications Over Lightweight Insulating Concrete: Sure-Flex Low-VOC Bonding Adhesive shall be used when using PVC or KEE HP membrane.
- G-06-21 Sure-Flex PVC Heat Weldable Walkway Rolls available in 80- and 110-mils thick.

## **VacuSeal:**

### Specifications:

- V2T name revised to "VacuSeal" throughout specification.
- Email contact revised to [VacuSeal@Carlisleccm.com](mailto:VacuSeal@Carlisleccm.com).
- Direct Overlay Chart updated.

### Details:

- V-8.0 revised branding to VacuSeal.
- Detail V-6.1 revised to include Direct Overlay.
- Stand-alone spec supplement created for VacuSeal.

## **Spec Supplements:**

- G-08-20 – Insulation Attachment and Details: A-27E revised to include StormBase with note for 20-year, 90-mph.; A-27F revised to note OSB Sheathing only; MF-27 created for (5) fasteners per board. MF-27A and MF-27B eliminated.
- G-16-21 – Paver Spec Supplement revised Low-voltage Electronic Field Vector Mapping description.

## **Design References:**

- DR-05-21: Addition of SecurShield HD Composite RL to Insulation/Underlayments.