WeatherBond **Fleece**

**Adhered System - Structural Deck**

**Description**
WeatherBond's Fleece systems provide a totally non-penetrating, tough, durable roof that meets the demands of design professionals and building owners alike. With the popularity of exposed ceiling construction, there is a real desire to avoid the use of mechanical fasteners. Additionally, building occupants are exposed to the noises and disruptions associated with standard fastening methods. Installing a Fleece membrane using Flexible DASH Adhesive provides a quiet installation with virtually no odors or VOCs, while outperforming the holding strength of standard fasteners.

This roofing option incorporates a WeatherBond Fleece TPO, PVC, or KEE HP membrane that is adhered to an acceptable insulation. The insulation is adhered to the structural decking, which includes concrete, gypsum, tectum, steel, and wood. Using Flexible DASH adhesive for each layer can improve the energy efficiency performance of roof systems by eliminating thermal bridges created by alternative installation methods. Adjoining sheets of Fleece TPO, PVC, or KEE HP membrane are joined together with a minimum 1 ½"-wide hot air weld.

**Typical Application**

1. Fleece TPO, PVC, or KEE HP Membrane
2. Flexible DASH Adhesive
3. Acceptable Insulation
4. Flexible DASH Adhesive
5. Approved Roof Deck
### System Features & Benefits
- Non-penetrating, low noise, low odor
  - Solution for occupied buildings
- Flexible DASH Adhesive is VOC-free
- Energy efficient and environmentally sound
  - Flexible DASH Adhesive provides an additional R-value of 0.2 to 0.5 per layer installed when used in full coverage application
  - Eco-friendly Flexible DASH Adhesive qualifies as having low GWP and ODP
  - Minimizes disposal and landfill costs
- Added puncture/tear resistance
  - 33-50% greater puncture resistance compared to standard systems
  - 33-66% increased hail protection when compared to standard systems (protects up to 4” hail)
  - Passes FM’s severe hail test
  - Results in fewer leaks than traditional systems
- Flexible DASH elongation properties of 150%
  - Flexible DASH Adhesive expands and bonds to porous decks, adding structural integrity to the system
  - Consistent elongation of 150% allows the adhesive to expand and contract with the building
- Superior wind uplift performance
  - Uplift pressures ranging from 90–990 psf depending on the substrate
- Expedient installation without interruptions
  - Labor-saving 10’- and 12’-wide sheets result in 67-72% fewer seams than a modified bitumen system of comparable size
  - Increases productivity on the roof, which lowers the cost of labor

### New Construction

<table>
<thead>
<tr>
<th>Existing or New Deck Type</th>
<th>Steel</th>
<th>Plywood</th>
<th>Lt. Wt. Concrete</th>
<th>Structural Concrete</th>
<th>Wood Planks</th>
<th>Gypsum &amp; Fibrous Cement</th>
<th>Smooth-Surfaced BUR</th>
<th>Gravel-Surfaced BUR</th>
<th>Existing Single-Ply</th>
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<tbody>
<tr>
<td>Insulation Required</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Recommended Insulations</td>
<td>WeatherBond Polyiso, XFP HD, DensDeck® or SECUROCK® over acceptable insulation</td>
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<tr>
<td>Insulation Attached By</td>
<td>Flexible DASH Adhesive or WeatherBond Fasteners</td>
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<tr>
<td>Membrane Attached By</td>
<td>Flexible DASH Adhesive</td>
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FOR TEAR-OFF OPTIONS REFER TO NEW CONSTRUCTION ABOVE.