

Top 10 Reasons to Choose FleeceBACK® Over Asphalt

For more than 50 years, Carlisle SynTec Systems has provided building owners and construction professionals with innovative, high-quality roofing products. Carlisle's industry-leading FleeceBACK EPDM, TPO, PVC and RapidLock roofing systems are ideal for buildings that require superior protection and long-term durability. The combination of high-performance fleece and Carlisle's time-tested membranes creates a rooftop that provides excellent resistance to punctures, hail damage, and high winds. Below are the top 10 reasons to choose a Carlisle FleeceBACK system over an asphalt roof.

LIGHTER AND MORE SUSTAINABLE

FleeceBACK membranes generally weigh less than half a pound per square foot, compared to an average of 2 pounds per square foot for asphaltic-based systems. In addition, the manufacture of FleeceBACK membranes consumes far fewer natural resources than asphalt systems.

RESISTANT TO PONDED WATER

Ponded water accelerates the loss of surface granules and exposes asphalt membranes to more UV rays, leading some manufacturers of asphaltic-based systems to void their warranties. While all roofs should be designed to avoid ponding water, Carlisle's FleeceBACK membranes are not adversely affected by this phenomenon.

HIGH-QUALITY FLASHING DETAILS

Carlisle offers a wide array of pre-fabricated, custom-fabricated, and pressure-sensitive (peel-and-stick) flashing accessories that are simple to install and covered by industry-leading warranties.

SAFER, LESS DISRUPTIVE INSTALLATION

Carlisle's FleeceBACK membranes are installed using low-odor, VOC-free Flexible FAST™ Adhesive or Hook & Loop technology. Asphaltic roofing system installations typically require the use of a torch or solvent-based adhesives.





Most manufacturers of asphaltic-based systems offer a variety of different cap and base sheets, each with their own performance and installation nuances. FleeceBACK membranes are simple to install and their ability to re-cover virtually any existing roofing system makes FleeceBACK very cost-competitive with traditional modified systems.

**SIMPLY
DESIGNED
AND COST-
COMPETITIVE**

Carlisle's 5'-, 6'-, 10'-, and 12'-wide FleeceBACK sheets reduce the frequency of field seams by 34%, 38%, 67%, and 75%, respectively, compared to 3'-wide rolls of asphaltic-based membranes. Fewer seams means less labor and a quicker installation process.

**FEWER
SEAMS**

Carlisle's FleeceBACK membranes pass FM's Severe Hail rating when adhered directly to concrete, achieve a UL 2218 Class 4 rating, and pass the National Bureau of Standards #23 Ice Ball test up to 3"-diameter hail. Asphaltic products can become brittle with age, making the roof more vulnerable to hail damage. When using Flexible FAST in full coverage or beads at 4" on-center, an extra 1" of hail coverage is available.

**HAIL DAMAGE
RESISTANCE**

FleeceBACK membranes offer greater dynamic puncture resistance than two-ply mod bit in the ASTM D5635 puncture test. Carlisle's Flexible FAST Adhesive increases the puncture-resistance of FleeceBACK assemblies by up to 50%, when compared to rigid polyurethane. When using Flexible FAST in full coverage or beads at 4" on-center, an extra 4 man hours of accidental puncture coverage is available.

**PUNCTURE
RESISTANCE**

FleeceBACK membranes provide uplift pressures ranging from 90-990 psf, depending on the substrate. As a result of this extraordinary wind uplift performance, the FleeceBACK/Flexible FAST Adhesive System offers an industry-leading 80 mph standard wind speed warranty that can be upgraded to 120 mph with design enhancements. Most manufacturers of asphaltic systems begin their wind exclusions with "gales", which include wind speeds as low as 39 mph.

**SUPERIOR
WIND UPLIFT
RESISTANCE**

Carlisle's white FleeceBACK EPDM, TPO, PVC, and RapidLock membranes are highly reflective. Asphaltic roofing systems rely on factory-applied acrylic coatings, films, or special granules, all of which have the potential to become dislodged or un-bonded over time. The granular surface texture also promotes dirt accumulation, compared to smooth-surfaced FleeceBACK membranes. Carlisle's APEEL protective film protects the surface of the FleeceBACK TPO membrane, keeping it white and reflective during installation.

**EXCELLENT
REFLECTIVITY**