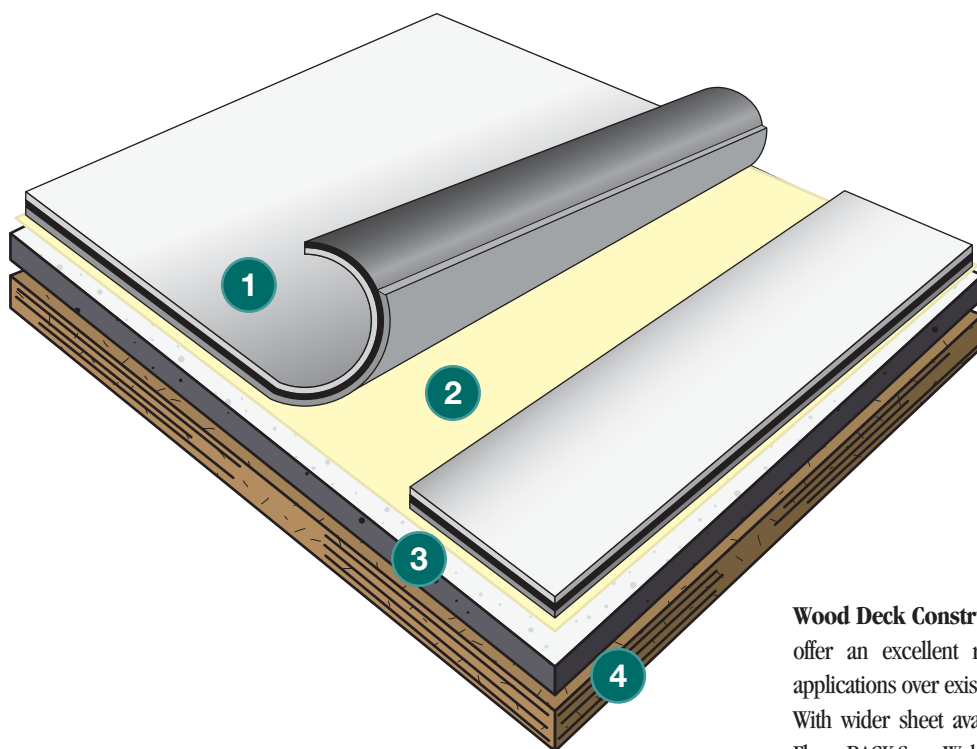




CARLISLE'S **FLEECEBACK SURE-WELD®** FULLY-ADHERED SYSTEM



Typical Recover

- 1 FleeceBACK Sure-Weld Membrane
- 2 Insulating FAST™ Adhesive
- 3 Existing Mineral Cap Sheet
- 4 Wood Deck

Wood Deck Construction - FleeceBACK membranes with FAST Adhesive offer an excellent roofing system upgrade when used in reroofing applications over existing mineral cap sheets or modified bitumen systems. With wider sheet availability, seams are reduced by 75% with 12'-wide FleeceBACK Sure-Weld TPO membrane. The polyester fleece reinforcement provides proper separation between the old roofing system and the new FleeceBACK membrane resulting in a 30-40% increase in overall puncture resistance. Sure-Weld TPO membranes are available in white which is highly reflective and will afford substantial energy cost savings when compared to the darker, less reflective mineral cap and modified bitumen membranes. FleeceBACK Sure-Weld TPO membranes are heat weldable for quick and easy installations and are free of chlorine and plasticizers making the roofing assembly environmentally friendly.

FAST Adhesive is a spray applied, water blown insulating adhesive that expands into the granular surface resulting in a tenacious bond.

Additional system features include:

- UL and FM ratings
- Minimal fastening requirements
- Insulating FAST Adhesive adds an R-value up to 0.5 per layer enhancing thermal efficiency and energy conservation
- ENERGY STAR® approved
- Strong heat welded seams



Denso Sales Warehouse

Long Beach, CA
187,000 Square Feet
Carlisle FleeceBACK Sure-Weld Roofing System
Wood Deck



ROOFING AMERICA: OVER 40 YEARS AND 10 BILLION SQUARE FEET™

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DESCRIPTION

The FleeceBACK Adhered Roofing System incorporates Sure-Weld reinforced TPO membrane laminated to non-woven polyester fleece-backing. The membrane can be fully adhered to acceptable existing roofing materials, acceptable insulations, or acceptable wood decking with a two component spray applied low-rise FAST Adhesive. Insulation, if used, can either be adhered to the substrate with the FAST Adhesive or fastened to the wood deck with an acceptable insulation fastener and plate. Adjoining sheets of membrane are spliced and joined together with a minimum of 1-1/2" wide hot air weld.

QUALITY ASSURANCE

This roofing system must be installed by a Carlisle Authorized Roofing Applicator in compliance with shop drawings approved by Carlisle. There must be no deviations made from Carlisle's specifications or the approved shop drawings without **PRIOR WRITTEN APPROVAL** of Carlisle. Upon completion of the installation, an inspection will be conducted by a Field Service Representative of Carlisle to ascertain that the roofing system has been installed according to Carlisle's specifications and details.

When this system is adhered directly to specific existing roofing material the existing Underwriters Laboratories (UL) Class listing and/or Factory Mutual (FM) Rating can be retained. When new construction projects over wood and insulation are used, a UL Class A listing and a Factory Mutual (FM) 1-90 can be achieved. For specific code approvals with these systems, refer to Carlisle's FleeceBACK Code Approval Guide, FM Approval Guide or UL Fire Resistance and Roofing Materials and Systems Directories.

Carlisle's FleeceBACK System has also passed the National Bureau of Standards NBS-23 Ice Ball Test for up to 3" hail at 32°F.

Building codes are above and beyond the intended purpose of this document. The owner or specifier should consult local codes for applicable requirements and limitations.

PRODUCT DELIVERY, STORAGE AND HANDLING

Deliver materials to the job site in the original, unopened containers labeled with the manufacturer's name, brand name and installation instructions.

Job site storage temperatures in excess of 90°F (32°C) may affect shelf life of curable materials (i.e., FAST Adhesive - parts A & B, splicing cement, sealants, cleaners, primers, SecurTAPE, pourable sealer, pressure-sensitive flashing and uncured flashing).

When liquid adhesives and sealants are exposed to lower temperatures, restore to a minimum of 60°F (16°C) before use. Do not store containers with opened lids as loss of solvent will occur from flash off.

FleeceBACK Membrane should be stored in its original plastic wrap and be covered to protect from moisture. Any moisture absorbed by the fleece-backing must be removed by using a wet-vac system, prior to membrane adhesion.

Insulation and underlayment must be stored so it is kept dry and is protected from the elements. Store insulation on a skid and completely cover with a breathable material such as tarp or canvas. If the insulation is lightweight, it should be weighted to prevent possible wind damage.

JOB CONDITIONS

Do not apply Sure-Seal® FAST Adhesive when surface and/or ambient temperatures are below 25°F (-4°C). When temperatures are between 25°F (-4°C) and 70°F (21°C), the addition of a catalyst to FAST Adhesive may be required to speed set-up time.

There is no maximum slope restriction for the application of this roofing system. On white membrane roofing systems, a slope greater than 1/8" per horizontal foot (1 cm/m) is recommended to serve long-term aesthetics.

On retrofit-recover projects, existing roofing material must be investigated and wet material must be removed.

The use of a vapor retarder to protect insulation and reduce moisture accumulation within an insulated roofing assembly should be investigated by the specifier. Consult the latest publications by ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.) and NRCA (National Roofing Contractors Association) for specific information. If a vapor retarder is used and insulation is to be secured with FAST Adhesive, use Carlisle's 725 Vapor Retarder.

Coordination between various trades is essential to avoid unnecessary rooftop traffic over sections of the roof and to prevent damage to the membrane.

WARRANTY

A 5- or 10-year Membrane System Warranty, with a wind speed coverage up to 80 mph (measured at 10 meters above ground level), is available.

A 10-, 12-, 15- or 20-year Total Roofing System Warranty is available on commercial projects which utilize all components manufactured or marketed by Carlisle. Upon review by Carlisle, Total System Warranty projects can receive a maximum peak gust wind speed up to 120 mph. Contact Carlisle for specific construction design requirements.

A hail resistance warranty may be included for up to 1" hail for FleeceBACK 100 and up to 2" hail for FleeceBACK 115.

A limited accidental puncture warranty is also available when using FleeceBACK 115.

Refer to Carlisle's currently published specifications and details for specific requirements concerning the application of these roofing system.

ROOF DECK / SUBSTRATE CRITERIA

A proper substrate shall be provided by the building owner. The structure shall be sufficient to withstand normal construction loads and live loads.

Defects in the roof deck must be reported and documented to the specifier, general contractor and building owner for assessment. The Carlisle Authorized Roofing Applicator shall not proceed unless the defects are corrected.

When fasteners are to be used for insulation attachment, refer to Part I "Design Criteria" of the FleeceBACK for acceptable fasteners and minimum fastener pullout requirements.

When using FAST Adhesive for membrane installation directly over an acceptable existing roofing material, the roofing surface must be cleaned using compressed air, vacuum equipment or hand / power brooms to remove dust, loose dirt or debris. If excessive dust or dirt is present, a primer may be required prior to application of the adhesive. Contact Carlisle for specific primer requirements.



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