

# SureMB 90TG Base

## Torch-Grade SBS Base Ply



### Overview

Carlisle's SureMB 90TG Base is a premium, smooth-surfaced, SBS (Styrene-Butadiene-Styrene), torch-applied membrane. Reinforced with a fiberglass mat that is saturated and coated with high-quality asphaltic bitumen and SBS elastomers, this product offers durability, flexibility and easy maintenance. 90TG Base is designed for use as a base ply or inter-ply in Carlisle's multiple-ply system and can also be used as an air barrier, vapor barrier or temporary roof (for up to 60 days).

### Features and Benefits

- » Torch-applied or mechanically fastened attachment options
- » SBS rubber optimizes waterproofing characteristics, adding redundancy to the roofing system
- » Fiberglass reinforcement ensures a tough, flexible, puncture-resistant and durable membrane
- » Can be used as a base ply, inter-ply, temporary roof or air and vapor barrier
- » Eliminates the use of kettles
- » 90TG Base is included in Carlisle's Total System Warranties of up to 20 years

### Installation

1. Suitable substrates are primed concrete, base plies (self adhered, mechanically fastened or adhered) or gypsum cover boards such as DensDeck® Prime or SECUROCK®.
2. Membrane should overlap 3" on the sides and 6" on the end laps.

3. To align the sheets, unroll the membrane at least 10' and back-roll the membrane so it remains tight.
4. When installing the sheet, apply the torch flame uniformly to the exposed underside of the membrane until the compound reaches the appropriate application temperature. The best visual indication that the compound has reached the proper temperature is that the compound will have a slight sheen.
5. Be sure that the burnoff film is completely burned off.
6. End laps must be staggered a minimum of 18" from adjacent end laps.
7. The torch flame should be moved from side to side in the shape of an "L", applying about 80% of the heat to the membrane and 20% to the substrate or underlying base, including the lap area of the previously installed courses. The membrane is unrolled as heat is applied to ensure proper adhesion. In colder temperatures, more heat must be applied to the substrate (refer to precautions section).
8. A minimum of 3/8" compound flow-out must be reached at all seam areas.
9. Seam areas must be rolled in, with a standup roller, no less than 3' and no more than 4' away from the torching application to ensure proper seam adhesion.
10. When completing end laps, pre-heat the surface of the bottom sheet first, and use standard procedures to heat and roll the top membrane.
11. When used as a vapor barrier or temporary roof, options for attaching insulation to 90TG Base include Type III or IV asphalt, Carlisle's Cold Applied Adhesive, FAST™ 100 and Flexible FAST Adhesive.

*Review Carlisle specifications and details for complete installation information.*

### Storage

1. All material should be stored out of the weather in a clean, dry area, in its original unopened packaging, at a minimum of 55°F.
2. If material must be stored temporarily on the roof before application, it must be elevated from the roof's surface on a pallet.
3. Store on end, covered from the weather with a light-colored opaque tarp in a neat, safe manner that does not exceed the allowable load limit of the storage area.
4. Stack 90TG Base squarely in the original unopened packaging, not more than two pallets high.

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### Specifications

- » Width: 39 3/8" (1 m)
- » Length: 49' 1" (15 m)
- » Square Feet/Roll: 164 (excluding side lap)
- » Thickness: 2.4 mm (94 mils)
- » Weight: 95 lbs/roll (43kg/m<sup>2</sup>)
- » Rolls/Pallet: 20

### Ratings and Certifications

- » Meets ASTM D6163 Type I, Grade S
- » Listed with Underwriter's Laboratories (UL)
- » Factory Mutual (FM) Approved

### Precautions

- » Do not install 90TG Base without reviewing and implementing all applicable safety and fire watch requirements.
- » Remove all potentially flammable articles from the roof application area.
- » All roofing application areas should be clean, smooth, dry and prepared according to Carlisle specifications.
- » Unsuitable substrates include insulations such as polyiso, perlite and wood fiberboard.
- » Other non-acceptable substrates include fresh asphalt glazes, flood coats, solvent-based adhesives or mastics, wood, plywood or oriented strand board.
- » If the membrane produces heavy smoke, this means too much heat is being applied.
- » In colder temperatures, 60% of the flame heat should be applied to the membrane and 40% should be applied to the substrate. A slower pace may be necessary to ensure proper heating.

### Typical Properties and Characteristics

Physical Property (ASTM D5147)	Test Results	ASTM D6163 Minimum
<b>Tensile Strength</b> (lbf/in), 0°F, (MD/XMD)	108/105	70 lbf/in
<b>Tensile Strength</b> (lbf/in), 73°F, (MD/XMD)	97/67	30 lbf/in
<b>Elongation</b> (% @ Max Load), 0°F, (MD/XMD)	4%	1%
<b>Elongation</b> (% @ Max Load), 73°F, (MD/XMD)	3%	2%
<b>Elongation</b> (% @ 5%, Max Load), 73°F, (MD/XMD)	5/7	3%
<b>Tear Strength</b> (lbf), (MD/XMD), 73°F, minimum	100/75	35 lbf
<b>Low Temperature Flexibility</b> , (°F), maximum	0°F (-18°C)	0°F
<b>Dimensional Stability</b> , %, maximum	< 0.2%	1%
<b>High Temperature Stability</b> , (°F)	215°F (101°C)	215°F

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

### LEED® Information

Pre-consumer Recycled Content	3.2%
Post-consumer Recycled Content	16.7%
Manufacturing Location	Fort Worth, TX
Solar Reflectance Index (SRI)	N/A

### Packaging

Product	SureMB 90TG Base Sheet (Torch Grade Modified Base)
Size/Weight	39.38" x 49' / 95 lbs
Actual Coverage	150 ft <sup>2</sup>
Part Number	323887