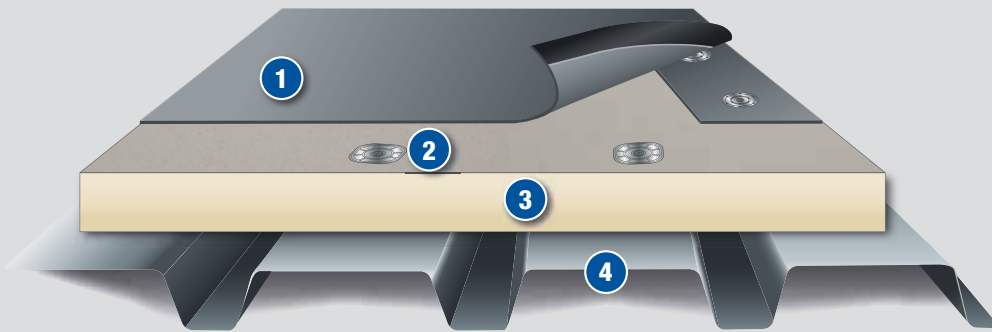


Sure-Tough™ EPDM

Mechanically Fastened Systems



- 1** Sure-Tough Reinforced EPDM Membrane with Factory Applied Tape (FAT™)
- 2** Carlisle Fasteners and Plates or Bar
- 3** Acceptable Insulation
- 4** Approved Roof Deck

EPDM Membranes for Mechanically Fastened Roofing Systems are available in the following:

Color	Black
Thicknesses (mils)	45, 60, and 75
Standard Widths	6.5', 8', or 10'
Standard Lengths	50' or 100'

System Features & Benefits:

- » In colder climates, dark-colored EPDM reduces heating costs, which are generally 3–5 times greater than cooling costs
- » Industry leading UV resistance of 35,320 kJ/m²
- » Reinforced sheets add puncture resistance and toughness
- » Lowest global warming potential, acid rain and smog impact according to EPA's TRACI model
- » Ideal for steel or wood decks
- » Less prone to condensation accumulation under the black membrane

Existing or New Deck Type	New Construction						Re-roofing		
	Steel	Plywood or OSB	Lt. Wt. Concrete	Structural Concrete	Wood Planks	Gypsum & Fibrous Cement	Smooth-Surface	Gravel-Surfaced	Existing Single-Ply
Deck Overlayment Required	Insulation	No	No	HP Mat	No	Insulation	No	Insulation	No
Recommended Insulations	Carlisle Polyiso, SecurShield™ HD cover board or SecurShield HD cover board over polystyrene						← Refer to New Construction		
Insulation Attached By	Acceptable Carlisle fasteners and plates, refer to Carlisle specifications below						← Refer to New Construction		
Membrane Attached By	Polymer seam plates w/HP; fastening bar w/HP or HP-X	HP w/seam plates	Lt. wt. fasteners & plates or HP NTB	Carlisle CD-10 or HD w/seam plate	Metal seam plates w/HP; fastening bar w/HP or HP-X	Lt. wt. fasteners & plates or HP NTB	← Refer to New Construction		

FOR TEAR-OFF OPTIONS REFER TO NEW CONSTRUCTION ABOVE.

For current code approvals and warranties, visit Carlisle's web site or contact a design analyst.

Sure-Tough™ EPDM

Mechanically Fastened Systems

Installation

Carlisle's Mechanically Fastened Roofing System utilizes 45-, 60- or 75-mil Sure-Tough membrane.

Insulation is typically mechanically fastened to the roof deck at a minimum rate of 1 fastener and plate every 8 square feet. The reinforced membrane is fastened with Carlisle HP fasteners and polymer plates. Carlisle's HP-XTRA Polymer plate with HP-XTRA fasteners and 6.5'-wide sheets can be used to achieve Factory Mutual's 1-90 rating at 12" on center over Grade C metal deck.

Adjoining membrane sheets are spliced together using Carlisle's SecurTAPE™ and primer or patented FAT™ seam technology. RUSS, Carlisle's reinforced securement strip, is utilized to form perimeter sheets on the roof. Field membrane sheets are either 6.5', 8' or 10' wide depending upon wind load requirements, roof deck type and building height.

The above information represents a typical Carlisle Mechanically Fastened Roofing System. Refer to Carlisle's published specifications and details for more complete information.

Membrane and System Strengths

- » Dimensionally stable in both hot and cold climates
- » Elongation and weathering resistance results in superior hail damage resistance
- » FAT seam technology and pressure-sensitive flashing accessories enhance workmanship quality
- » 45-mil, 60-mil and 75-mil membranes available for 15-, 20-, 25- and 30-year warranties
- » Reinforced membranes offers excellent fatigue, tear and puncture resistance
- » Black EPDM membrane is ideally suited for central and northern climates where heating costs are 3–5 times greater than cooling costs
- » Black EPDM membrane reduces snow and ice accumulation and promotes drying of the roof
- » Zero (no growth) rating for fungal growth

System Codes

- » UL Class A and B ratings are available
- » FM 1-60 and 1-90 wind uplift ratings

For code specifics, refer to Carlisle's Code Approval Guide.

Quality Assurance

Carlisle Authorized Applicators have been trained to install Mechanically Fastened Roofing Systems.

Inspection

Upon installation completion, and prior to the issuance of a membrane system warranty, an inspection will be conducted by a Carlisle Field Service Representative.

Warranty

Consult your Authorized Applicator or Carlisle Manufacturer's Representative/Distributor for associated warranty charges.

This system properly installed and inspected on a commercial project may receive:

- » A 10-, 15-, 20-, 25- or 30-year (requires 75-mil) Golden Seal™ Total System Warranty when all materials used for the roofing installation are manufactured or marketed by Carlisle.
- » A maximum peak gust wind speed coverage of 55 mph is standard. Additional coverage up to 90 mph is available.

For more specifics or for International warranty programs, contact Carlisle.

