

# TITLE 24 COMPLIANT + CLASS A FIRE RATING... ALL IN ONE ROLL.

## metalflexSBS<sup>®</sup> COOL WHITE 24

To address the on-going demand for energy efficient roofing systems, MBTechnology has made available the Metalflex SBS membrane, featuring a white, reflective, aluminum surface.

This unique foil-faced surface absorbs much less heat than does a conventional roofing system, thus resulting in reduction of a building's energy consumption. In most cases, this allows the building owner to use a smaller air conditioning unit.

Metalflex SBS Cool White 24 has reflectivity characteristics which exceed the initial requirements set forth by the United States Environmental Protection Agency Energy Star<sup>®</sup> standard and by the Energy Efficiency Standards for Residential and Nonresidential Buildings, Title 24 of the California Code of Regulations. Metalflex SBS Cool White 24 reflects over 70% of solar energy away from the roof surface.



Metalflex SBS is also available in uncoated aluminum finish, which meets the requirement of Energy Star<sup>®</sup> rated roof membranes.

	ENERGY STAR <sup>®</sup>	CALIFORNIA TITLE 24	MF160WAL SBS COOL WHITE 24
<b>Reflectivity</b> (ASTM C1549)	> 0.65	> 0.70	0.71
<b>Emissivity</b> (ASTM C1371)	N/A	> 0.75	0.82

Metalflex SBS Cool White 24 also qualifies the roofing assembly as a high performance green building structure eligible for the Leadership in Energy and Environmental Design Sustainable Site (LEED SS) Credit 7.

### APPLICATION

Metalflex SBS is applied in a two-ply configuration over insulated and wood/light weight deck. Metalflex SBS offers the flexibility of application with hot asphalt or heat welded application.

### FIRE RATING

The majority of single-ply and modified asphalt systems have a fire rating limited to a slope of 2:12. The embossed aluminum foil offers exceptional spread of flame resistance, which qualifies Metalflex SBS for a Class A fire rating with no slope restriction. This makes it ideal for projects with a barrel roof or for areas with slopes greater than 2:12.

**The waterproofing characteristics of SBS-modified asphalt + the protective qualities and reflectivity of aluminum foil.**



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## APPLICATION

**DECK PREPARATION:** Roof decks shall provide positive drainage, and sloped to prevent ponding water. A minimum slope of ¼" per foot is required. Drains and outlets should be installed to remove water completely from the roof surface. All decks must be firm, solid free of sharp edges or depressions, free of moisture or effects of freezing, free of dust or debris and capable of supporting all anticipated deck loads.

**BASE SHEET:** Mechanically fasten one layer of layfast SBS to the deck. On decks with slopes less than ½" per foot, base sheet must be applied in shingle fashion starting at the point of the roof proceeding upwards. Base sheets shall be lapped 2" on the sides and 4" at the ends. On decks with slopes greater than ½" per foot, in addition to the above requirements the end laps shall also be staggered not less than 3' apart. Sheets will be nailed at 9" intervals along the edges. The second row of fasteners will be nailed 12" from the edge 18" apart.

**CAP SHEET:** Torch application is preferred method of application for metalflex SBS membrane. Hot mop application is allowed for project where the slope is less than 1" – 12". Use only Type IV asphalt. Metalflex shall only be installed in rolls of 11 feet Maximum Lengths in the field of roof. It is very important not to deform the waffle pattern, since this will reduce life expectancy of membrane. In order to avoid this you

should use a damp sponge (for flashing) or a wet mop (for field) to broom the membrane in into place. For field of roof **do not walk on membrane** and always pull the membrane. This can easily be done with a torch hook.

**FLASHING:** For flashing application metalflex SBS shall only be applied with torch application. Torch apply the membrane into place using three-foot widths (cut off the end of the rolls) always lapping the factory selvage edge. Extend the flashing a minimum of six (6) inches beyond the toe of the cant onto the prepared surface of the finished roof and up the wall to the desire wall.

**END LAP APPLICATION:** For end laps application you need to peel off 8" of the foil. This is done by cutting the foil with a sharp utility knife, making sure that the cut is not deep enough to penetrate the reinforcement and only cuts the foil. Then lightly heat the aluminum foil, which has been cut to facilitate peeling off. To cover the asphalt bleed out use an aluminum paste and rub over the areas, which have asphalt bleed out.

**WARRANTY:** This system qualifies for a 10 year (material warranty). Application done through eligible contractors qualifies for 10 year Material & Workmanship Guarantee.



### PRODUCT SPECIFICATIONS

Product	MF1 60WAL Col-metalflex SBS Cool White 24
Reinforcement	High Tensile Fiberglass Scrim
Weight (lbs/roll)	100
Coverage (sq.ft/roll)	110
Packaging (rolls/pallet)	25
Application	Hot Asphalt, Heat Weld

**MBTECHNOLOGY**  
SUPERIOR ROOFING & UNDERLAYMENT SYSTEMS

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