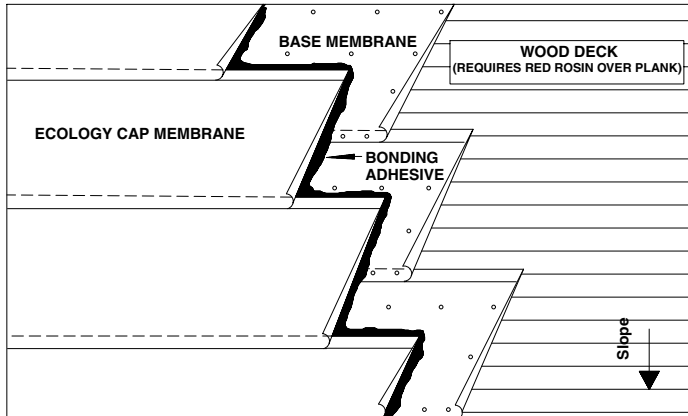


FOR APPLICATIONS OVER WOOD DECKS



SPECIFICATION PROCEDURES

GENERAL:

This specification provides for the combined selection of an Ecology Base Ply Membrane and an Ecology Glass Cap Membrane over wood deck systems. These specifications apply to positive slope roof systems with slopes up to 2", per published design specifications of Ecology Roof Systems®, the deck manufacturer, the fastener manufacturer, and the latest Factory Mutual guidelines. All rolls should be unrolled and relaxed prior to installation. The substrate must be repaired or replaced, where wet or damaged, if this specification is used for a replacement roof system.

BASE MEMBRANE:

Install the selected Ecology Base Membrane by means of mechanical fasteners in accordance with Ecology's approved procedures for wood decks. Begin by starting at the low point of the roof, with an 18" starter membrane laid up in shingle fashion perpendicular to the slope. Using minimum 2" side laps and 4" end laps, or as marked and required for selected membrane, continue installing full layers of membrane. Side laps shall be fastened at 9" intervals with two rows of fasteners set 12" in from the side laps at 18" intervals. Fasteners shall be staggered to prevent parallel patterns across the width of the sheet. Minimum total fasteners should be in accordance with current FM Guidelines for the fastener used. All end laps should be staggered no less than 3' apart.

CAP MEMBRANE:

Install the Ecology membrane with hot applied asphalt or cold process adhesive beginning at the low point on the roof running parallel to the installed base membrane. Stagger the side and end laps of the cap membrane a minimum of 9" from the side and end laps of the base membrane. Mop systems should be rolled immediately into the hot asphalt with asphalt temperatures maintained at 400°F at the point of application. Mopping should proceed the roll no more than 3' with side laps mopped last. A uniform flow of bitumen of about 1/4" should be around all seams. Unless otherwise marked, side laps on the Ecology membranes shall be a minimum of 4" and end laps a minimum of 8". Cold process applications should have adhesive held back from the laps for welding with a hot air welder. Mopped applications may also have laps welded with hot air. For slopes of 1" - 2" per lineal foot, apply material parallel to the slope with head laps back-nailed 6" on center approximately 2" in from the edge. Stagger end laps a minimum of 36" from ends of the previous roll. Follow Ecology's published installation procedures for more detailed instructions.

SURFACING:

All smooth surface membranes must receive surface protection. Factory finished mineral and metal surface membranes do not require any additional protection, but mineral surfaces can be coated, if desired, using higher coverage rates for the rougher membrane surface. Follow application procedures outlined by Ecology Roof Systems® regarding preparation and dry time required.

Smooth surfaced SBS membranes, after a 30 day curing process, may be coated with one of the Ecology reflective coatings or can be surfaced with one of Ecology's hot applied asphalt blends with graded roofing aggregate embedded. The membranes may also be surfaced with an Ecology cold process adhesive with mineral granules embedded to cover the adhesive.

MATERIALS LIST AND MEMBRANE OPTIONS

Fasteners:

Use fasteners as shown in Ecology's General Design Recommendations for Wood Decks.

Bonding Bitumen For Base Plies:

ERS- All Temp:	Steep Grade (Type III) ASTM D-312-84 at a minimum 25 lbs. per 100 SF.
ERS-All Temp:	Special Steep Grade (Type IV) ASTM D-312-84 at 25 lbs. per 100 SF.
ERS Hot Flex:	Modified Mopping Asphalt at 25 lbs. per 100 SF.
ERS-302:	Cold Process Interply Adhesive at 1-1/2 - 2 gal. per 100 SF.
ERS-309:	Cold Process Rubberized Interply Adhesive at 1-1/2 - 2 gal. per 100 SF.

Primer:

ERS-301 Quick Dry Asphalt Primer at 125 - 150 SF. per gallon.

Ecology Base Membrane Options (Select 1 Ply):

SBS Based: ERS-500-6 or ERS-500-6P

Ecology Cap Membrane Options:

SBS/SEBS: ERS-505 or ERS-507

Surfacing Options For Non-Granulated Sheets:

Ecology Coating	Membranes Accepted	Min. Coverage Rate
ERS-305:	All	1-1/2 - 2 gal. per 100 SF.
ERS-308:	All	1-1/2 - 2 gal. per 100 SF.
ERS-200:	All	3 gal. per 100 SF.
ERS-White Top:	All	2 gal. per 100 SF.

Additional Surfacing Options For SBS:

ERS All Temp:	Hot Applied Asphalt at 60 - 70 lbs per 100 SF with pea gravel embedded at the rate of approx. 400 lbs. per 100 SF.
ERS Hot Flex:	Hot Applied Rubberized Asphalt at 60 - 70 lbs per 100 SF. with pea gravel embedded at the rate of approx. 400 lbs. per 100 SF.
ERS-302/ or 309:	Cold Process Adhesive at 2 gallons per 100 SF. for mineral granules. At a minimum 5 gallons per 100 SF. for graveled surfaces.
ERS Granules:	Apply in wet adhesive to cover surface.
Roofing Gravel:	ASTM D1863 roofing aggregate at 400 lbs per 100 SF.

