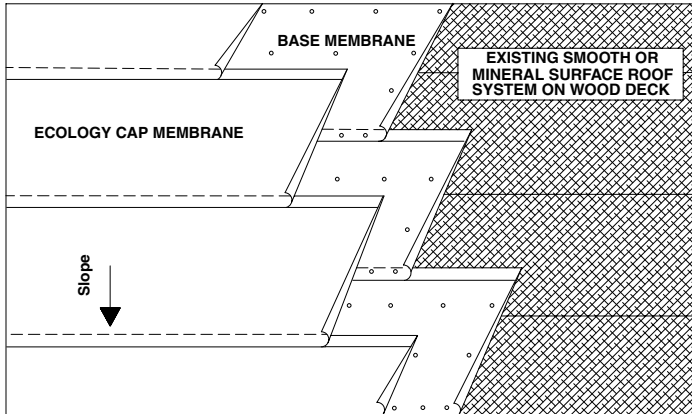


FOR APPLICATIONS OVER EXISTING ROOF SYSTEMS ON WOOD DECKS



SPECIFICATION PROCEDURES

GENERAL:

This specification provides for the combined selection of an Ecology Base Ply Membrane and Ecology Cap Membrane over an existing smooth or mineral surface roof system on wood decking. These specifications apply to positive slope roof systems with slopes up to 2°, per published design specifications of Ecology Roof Systems®, the fastener manufacturer, and the latest Factory Mutual guidelines. All rolls should be unrolled and relaxed prior to installation. All bad decking and any wet roofing must be replaced prior to installing the new Ecology roof system.

BASE MEMBRANE:

Install the selected Ecology Base Membrane by means of mechanical fasteners in accordance with Ecology's approved procedures. Begin by starting at the low point in the roof, with a 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 the 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. All end laps should be staggered no less than 3' apart.

NOTE: Any torch applied base membrane must be welded to a torchable surface.

CAP MEMBRANE:

Install the Ecology membrane with heat welded torch application 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. Heat should be applied to the full width of the roll until the modified bitumen has properly softened to provide adhesion to the substrate and provides a uniform flow of bitumen of about 1/4" 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". 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. Smooth surface APP membranes should be coated with one of Ecology's reflective coatings. Application can be done, after the installation has weathered for 30 days, by roller, soft bristle brush or airless spray at the nominal rate of 1 - 2 gallons per 100 sq. ft. per coat depending on the coating selected. 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.

Primer:

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

Ecology Base Membrane Options (Select 1 Ply):

SBS Based: ERS-500, ERS-500-4, ERS-500-4T, ERS-500-6, ERS-500-6T or ERS-500-6P

Ecology Cap Membrane Options:

SBS/SEBS: ERS-602, ERS-603, ERS-604T, or ERS-703

Surfacing Options For Non-Granulated Sheets:

Ecology Coating	Membranes Accepted	Min. Coverage Rate
ERS-305:	All except ERS-600, ERS-602, & ERS-703	1-1/2 - 2 gal. per 100 SF.
ERS-308:	All except ERS-602 & ERS-703	1-1/2 - 2 gal. per 100 SF.
ERS-200:	All except ERS-703	3 gal. per 100 SF.
ERS-White Top:	All except ERS-600, ERS-602, & ERS-703	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.

