



# BUILT-UP ROOF (BUR) SYSTEM WARRANTY COVERAGE MATRIX

## INSULATION SYSTEM, COVER PANEL AND MEMBRANE ATTACHMENT GUIDELINES

PANEL TYPE	INSULATION ATTACHMENT			APPROVED BITEC BUILT-UP ROOF (BUR) APPLICATION GUIDELINES
	FASTENERS	LOW RISE FOAM	HOT ASPHALT	HOT ASPHALT
ASPHALTIC COVER PANEL	Requires pre-approval by BITEC.	Approved	Approved	Approved with Type III or IV hot asphalt.
CEMENT ROOF PANELS	Approved	Approved • Maximum 4' x 4' panel	Approved • Maximum 4' x 4' panel	Approved with Type III or IV hot asphalt. Priming is required.
EXPANDED POLYSTYRENE (EPS) (minimum 1.15 pcf density)	Must be simultaneously fastened with an approved cover panel.	Approved • Maximum 4' x 4' panel • Maximum thickness of 6 inches per layer. • Extruded polystyrene panel surface must be planed/textured	Not approved	An approved cover panel is required to be mechanically attached or adhered with low-rise foam adhesive. <i>(not commonly specified)</i>
EXTRUDED POLYSTYRENE (XEPS)				
GYPSUM-BASED PANELS  • DENSDECK®, DENSDECK PRIME®, • DEXCELL®, DEXCELL FA® GLASS MAT ROOF BOARD • SECUROCK® GYPSUM FIBER ROOF PANELS	Approved	Approved • Maximum 4' x 4' panel	Not approved when applying the roof system in hot asphalt	Approved in hot asphalt only when panels are mechanically attached or applied in low-rise foam adhesive.
HIGH-DENSITY POLYISOCYANURATE	High density polyisocyanurate is not approved when applying the roof system in hot asphalt.			
HIGH-DENSITY WOOD FIBERBOARD	Approved	Approved • Maximum 4' x 4' panel	Approved • Maximum 4' x 4' panel	Approved in Type III or IV asphalt
POLYISOCYANURATE	Approved	Approved • Maximum 4' x 4' panel	Approved • Maximum 4' x 4' panel	An approved cover panel is required.
PERLITE	Approved	Not approved	Approved	Approved
OPTIM-R® VACCUUM INSULATED PANELS	Not approved	Approved <i>(not commonly specified)</i>	Not approved	An approved cover panel is required to be adhered with low-rise foam adhesive. <i>(not commonly specified)</i>
ROCKWOOL TOPROCK DD AND DD PLUS®	Approved	Approved • Maximum 4' x 4' panel	Approved • Maximum 4' x 4' panel	Approved

## PLY AND SURFACING OPTIONS

(Base Ply, Inter-ply and Surfacing/Cap Ply components are required as a composite system for either design option. The ply application rate for Viking Type III or IV Hot Asphalt is 25 lbs./square.)

Duration	FIELD-APPLIED SURFACING OPTIONS			CAP PLY OPTIONS		
	BASE PLY	INTER-PLIES	SURFACING	BASE PLY	INTER-PLIES	CAP PLY
10 years	<b>1 ply of:</b> Viking Type IV Ply Felt, Viking AOB, or Beta Base	<b>2 plies of:</b> Viking Type IV Ply Felt, or Beta Base	1. Flood coat of Viking Type III or IV asphalt @ 60 lbs. / sq., followed by slag or roofing gravel @ 400 lbs. / sq; or, 2. Flood coat of Viking Type III or IV asphalt @ 30 lbs. / sq., followed by BITEC MAC-300 or Storm Breaker coating system	<b>1 ply of:</b> Viking Type IV Ply Felt, Viking AOB, or Beta Base	<b>2 plies of:</b> Viking Type IV Ply Felt, or Beta Base	<b>1 ply of:</b> SPM-4H 250, SPM-4H, or SPS-3H <i>(with surfacing or coating)</i> SPM 4T <i>(torch applied)</i> SPM-4.5T <i>(torch applied)</i> APM-4T <i>(torch applied)</i> APM-4.5T <i>(torch applied)</i>
15 or 20 years	<b>1 ply of:</b> Viking Type IV Ply Felt, or Beta Base	<b>3 plies of:</b> Viking Type IV Ply Felt, or Beta Base		<b>1 ply of:</b> Viking Type IV Ply Felt, or Beta Base	<b>2 plies of:</b> Viking Type IV Ply Felt, or Beta Base	
25 years	<b>1 ply of:</b> Beta Base	<b>4 plies of:</b> Viking Type IV Ply Felt, or Beta Base	<b>1 ply of:</b> Beta Base	<b>3 plies of:</b> Viking Type IV Ply Felt, or Beta Base		

NOTE: Warranty coverage is offered with no penal sum (i.e. “no dollar limit” / “NDL”) for leaks due to Workmanship defects on Commercial projects only, which must be installed per BITEC standard specifications and details by a BITEC Certified Roofing Contractor. Commercial projects are eligible for “full system” coverage provided the insulation, cover panel, fasteners, and insulation adhesive (as applicable) are purchased from BITEC.

Residential projects are limited to 10-year Materials only coverage.