



# STRONGHOLD WARRANTY COVERAGE MATRIX

## INSULATION SYSTEM, COVER PANEL AND MEMBRANE ATTACHMENT GUIDELINES

PANEL TYPE	INSULATION ATTACHMENT			APPROVED BITEC STRONGHOLD MEMBRANE APPLICATION				
	FASTENERS	LOW RISE FOAM	HOT ASPHALT	SEAM FASTENING	INDUCTION WELD	HOT ASPHALT	BONDING ADHESIVE	LOW-RISE FOAM
ASPHALTIC COVER PANEL	Requires pre-approval by BITEC.	Approved	Approved	Fleece-back only	Not approved	Fleece-back only	Fleece-back only	Fleece-back only
CEMENT ROOF PANELS	Approved	Approved	Approved	Fleece-back or smooth	Smooth only	Fleece-back only	Fleece-back or smooth	Fleece-back or smooth
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 must be mechanically attached.	An approved cover panel must be mechanically attached	Fleece-back only  An approved cover panel must be mechanically attached or adhered with low-rise foam adhesive. <i>(not commonly specified)</i>	An approved cover panel must be mechanically attached or adhered with low-rise foam adhesive.	An approved cover panel must be mechanically attached or adhered with low-rise foam adhesive.
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	Approved • Maximum 4' x 4' panel • StrogHold membrane application method limited to bonding adhesive, foamable adhesive, or mechanical attachment. <i>(not commonly specified)</i>	Fleece-back or smooth	Smooth only	Fleece-back only • Panels must be mechanically attached or adhered with low-rise foam adhesive.	Fleece-back or smooth	Fleece-back or smooth
HIGH-DENSITY POLYISOCYANURATE	Approved	Approved • Maximum 4' x 4' panel	• Approved • Maximum 4' x 4' panel	Fleece-back or smooth	Smooth only	Not approved	Fleece-back or smooth	Fleece-back or smooth
HIGH-DENSITY WOOD FIBERBOARD	Approved	Approved • Maximum 4' x 4' panel	• Approved • Maximum 4' x 4' panel	Fleece-back or smooth	Smooth only	Fleece-back only	Fleece-back or smooth	Fleece-back or smooth
POLYISOCYANURATE	Approved	Approved • Maximum 4' x 4' panel	Approved • Maximum 4' x 4' panel	Fleece-back or smooth	Smooth only	Not Approved	Requires pre-approval by BITEC.	Requires pre-approval by BITEC.
PERLITE	Approved	Not approved	Approved	Fleece-back or smooth	Smooth only	Fleece-back only	Fleece-back or smooth	Fleece-back or smooth
OPTIM-R® VACCUUM INSULATED PANELS	Not approved	Approved	• Not approved	Not approved	Not approved	An approved cover panel must be adhered with low-rise foam adhesive. <i>(not commonly specified)</i>	An approved cover panel must be adhered with low-rise foam adhesive.	An approved cover panel must be adhered with low-rise foam adhesive.
ROCKWOOL TOPROCK DD AND DD PLUS®	Approved	Approved • Maximum 4' x 4' panel	Approved • Maximum 4' x 4' panel	Fleece-back or smooth	Smooth only	Fleece-back only	Fleece-back or smooth <sup>3</sup>	Fleece-back or smooth <sup>3</sup>

## STRONGHOLD ROOF MEMBRANE SYSTEM

(MINIMUM REQUIRED THICKNESS)

DURATION	MECHANICALLY ATTACHED & INDUCTION WELDED			ADHERED OVER PANEL (HOT ASPHALT, BONDING ADHESIVE AND LOW-RISE FOAM)			ADHERED OVER A BITEC SLAG- OR GRANULE-SURFACED MODIFIED BITUMEN BASE PLY <sup>2</sup> (FLEECE-BACK ONLY)		
	KEE	PVC	TPO	KEE	PVC	TPO	KEE	PVC	TPO
10 years	45 mil	45 mil	45 mil	45 mil	45 mil	45 mil	45 mil	45 mil	45 mils
15 years			60 mil						
20 years	60 mil	80 mil	80 mil	60 mil	80 mil	80 mil	60 mil	80 mil	60 mil
25 years <sup>1</sup>			80 mil						80 mil
30 years <sup>1</sup>	80 mil	N/A	N/A	80 mil	N/A	N/A	60 mil	80 mil	N/A

- NOTES**
1. An approved cover panel is required over any insulation for 25- or 30-year coverage.
  2. See the BITEC Modified Bitumen Warranty Matrix for approved base ply substrates and application guidelines.
  3. Fleece-back is acceptable for DD or DD Plus versions. Smooth membrane is limited to the DD version (ie. not factory primed) only.
  4. For Warranty eligibility, all roofing materials must be manufactured or supplied by BITEC, and the system must be installed according to BITEC standard specifications and details by a BITEC Certified Roofing Contractor.