

SYSTEM GUIDELINE WIND LOAD

**BUILDING TRUST
CONSTRUIRE LA CONFIANCE**



System	Deck ³	Thermal Barrier ⁴	Vapour Retarder	Insulation	Cover Board	Membrane	Field of Roof Pressure	Field Attachment	Perimeter Attachment	Corner Attachment	Notes
Rhinobond	Structural Concrete, Steel, Wood Plank,	Optional	Any Sika®/Sarnafil®(1)	Min 2" Sarnatherm (CG)	Optional ⁽⁵⁾	Sikaplan® Fastened or Sarnafil® S327 ⁽⁶⁾	45 psf 60 psf	6 per 4' x 8' sheet 8 per 4' x 8' sheet	10 per 4' x 8' sheet 14 per 4' x 8' sheet	16 per 4' x 8' sheet 20 per 4' x 8' sheet	-
Engineered	Structural Concrete, Steel, Wood Plank, Plywood	Optional	Any Sika®/Sarnafil®(1)	Min 2" Sarnatherm (CG)	Optional ⁽⁵⁾	Sarnafil® S327 ⁽⁶⁾	45 psf	Sarnabar Spacing 72" o.c. fastened 12" o.c. and coverstrip	Sarnabar Spacing 42" o.c. fastened 12" o.c. and coverstrip	Sarnabar Spacing 24" o.c. fastened 12" o.c. and coverstrip	Insulation / Coverboard Attachment 1 per 4 sq. ft all zones
							80 psf	Sarnabar Spacing 72" o.c. fastened 6" o.c. and coverstrip	Sarnabar Spacing 42" o.c. fastened 6" o.c. and coverstrip	Sarnabar Spacing 24" o.c. fastened 6" o.c. and coverstrip	Insulation / Coverboard Attachment 1 per 4 sq. ft all zones
Inseam	Structural Concrete, Steel, Wood Plank, Plywood	Optional	Any Sika®/Sarnafil®(1)	Min 2" Sarnatherm (CG)	Optional ⁽⁵⁾	Sikaplan® Fastened or Sarnafil® S327 ⁽⁶⁾	37.5 psf	10' sheet:12" o.c	5' sheet:12" o.c. (must be perpendicular to the steel deck); or Coverstrip (over fastener & plate attached 12" o.c.) between field rows	Coverstrip (over fastener & plate attached 12" o.c.) between perimeter rows / coverstrip	Insulation / Coverboard Attachment 1 per 4 sq. ft all zones
							60 psf	10' sheet:6" o.c	5' sheet:6" o.c. (must be perpendicular to the steel deck); or Coverstrip (over fastener & plate attached 6" o.c.) between field rows	Coverstrip (over fastener & plate attached 6" o.c.) between perimeter rows / coverstrip	Insulation / Coverboard Attachment 1 per 4 sq. ft all zones
PARS (Mandatory Thermal Barrier Attached)	Steel, Wood Plank, Plywood	Required	SA 31, SA 106	Min 2" Sarnatherm (CG)	Optional ⁽⁵⁾	Sikaplan® Adhered or Sarnafil® G410 (Feltback) ^(6,7)	30 psf	Thermal Barrier: 1 per 2.67 sq. ft, Insulation/ Coverboard: LRA at 12" o.c.	Thermal Barrier: 1 per 1.78 sq. ft, Insulation/ Coverboard: LRA 6" o.c.	Thermal Barrier: 1 per 1.33 sq. ft, Insulation/ Coverboard: LRA 4" o.c.	-
							37.5 psf	Thermal Barrier: 1 per 2 sq. ft, Insulation/ Coverboard: LRA at 12" o.c.	Thermal Barrier: 1 per 1.33 sq. ft, Insulation / Coverboard: LRA 6" o.c.	Thermal Barrier: 1 per 1 sq. ft, Insulation/Coverboard: LRA 4" o.c.	-
							45 psf	Thermal Barrier: 1 per 4 sq. ft. Insulation layers and Coverboard: LRA at 12" o.c.	Thermal Barrier Layer: 1 per 2 sq. ft. Insulation layers and Coverboard: LRA 6" o.c.	Thermal Barrier Layer: 1 per 1 sq. ft. Insulation layers and Coverboard: LRA 4" o.c.	Thermal Barrier: min 5/8" Dens Deck Prime
PARS (Mandatory Thermal Barrier Loose Laid)	Steel, Wood Plank, Plywood	Required: Refer to Notes	Any Sika®/Sarnafil®(1)	Min 2" Sarnatherm (CG)	Optional ⁽⁵⁾	Sikaplan® Adhered or Sarnafil® G410 (Feltback) ^(6,7)	45 psf	Base Layer Insulation: 1 per 4 sq. ft. Additional Layers Insulation and Coverboard: LRA at 12" o.c.	Base Layer Insulation: 1 per 2 sq. ft. Additional Layers Insulation and Coverboard: LRA @ 12" o.c.	Base Layer Insulation: 1 per 1 sq. ft. Additional Layers Insulation and Coverboard: LRA @ 12" o.c.	Thermal Barrier Loose Laid
PARS (No Thermal Barrier)	Structural Concrete, Steel, Wood Plank, Plywood	NA	Sarnavap P-E6, PE-10 or Sarnavap 5000 SA FR	Min 2" Sarnatherm (CG)	Optional: Refer to Notes	Sikaplan® Adhered or Sarnafil® G410 (Feltback) ^(6,7)	37.5 psf	Insulation /Coverboard: 1 per 2 sq. ft	Insulation / Coverboard: 1 per 1.33 sq. ft	Insulation / Coverboard: 1 per 1 sq. ft	Coverboard: min. 1/4" Dens Deck Prime or 1/2" Sarnatherm HD
							45 psf	Insulation /Coverboard: 1 per 4 sq. ft	Insulation / Coverboard: 1 per 2 sq. ft	Insulation / Coverboard: 1 per 1 sq. ft	Coverboard: min. 5/8" Dens Deck Prime
PARS (Mandatory Coverboard)	Structural Concrete, Steel, Wood Plank, Plywood	Optional	Any Sika®/Sarnafil®(1,2)	Min 2" Sarnatherm (CG)	Mandatory: Refer to Notes	Sikaplan® Adhered or Sarnafil® G410 (Feltback) ^(6,7)	30 psf	Insulation /Coverboard: 1 per 4 sq. ft	Insulation / Coverboard: 1 per 2.67 sq. ft	Insulation / Coverboard: 1 per 1.78 sq. ft	Coverboard: min. 1/4" DDP or 1/2" HD
							45 psf	Insulation /Coverboard: 1 per 2.67 sq. ft	Insulation / Coverboard: 1 per 1.78 sq. ft	Insulation / Coverboard: 1 per 1.33 sq. ft	
							45 psf	Insulation /Coverboard: 1 per 4 sq. ft	Insulation / Coverboard: 1 per 2.67 sq. ft	Insulation / Coverboard: 1 per 1.78 sq. ft	
							60 psf	Insulation /Coverboard: 1 per 2.67 sq. ft	Insulation / Coverboard: 1 per 1.78 sq. ft	Insulation / Coverboard: 1 per 1.33 sq. ft	Coverboard: min. 1/2" DDP
PARS	Structural Concrete, Steel, Wood Plank, Plywood	Optional	Any Sika®/Sarnafil®(1,2)	Min 2" Sarnatherm (CG)	Optional; Refer to Notes ⁽⁵⁾	Sikaplan® Adhered or Sarnafil® G410 (Feltback) ^(6,7)	30 psf	Insulation /Coverboard: 1 per 4 sq. ft	Insulation / Coverboard: 1 per 2 sq. ft	Insulation / Coverboard: 1 per 1 sq. ft	Coverboard: 1/2" Sarnatherm HD.
							45 psf	Insulation /Coverboard: 1 per 4 sq. ft	Insulation / Coverboard: 1 per 2 sq. ft	Insulation / Coverboard: 1 per 1 sq. ft	Coverboard: min. 5/8" DDP.
							45 psf	Insulation /Coverboard: 1 per 2.67 sq. ft	Insulation / Coverboard: 1 per 2 sq. ft	Insulation / Coverboard: 1 per 1 sq. ft	Coverboard: min. 1/4" DDP or 1/2" Sarnatherm HD.
AARS	Steel	NA	Sarnavap SA 31 or SA 106	Min 2" Sarnatherm (CG)	Optional ⁽⁵⁾	Sikaplan® Adhered or Sarnafil® G410 (Feltback) ^(6,7)	45 psf	LRA at 12" o.c.	LRA at 6" o.c.	Insulation / Coverboard: 24 per 4' x 8' sheet	-
AARS	Structural Concrete	NA	Sarnavap SA 31, SA 106 or TA 138	Min 2" Sarnatherm (CG)	Optional ⁽⁵⁾	Sikaplan® Adhered or Sarnafil® G410 (Feltback) ^(6,7)	90 psf	LRA at 12" o.c.	LRA at 6" o.c.	LRA at 4" o.c.	-

General Notes:
Compliance to wind load pressures can be demonstrated through FM 4470 or CSA A123.21 testing. Contact Sika Technical for specific testing. PARS = Partially Adhered Roof System (some components below the membrane are mechanically attached), AARS = All Adhered Roof System (All components are adhered)

Specific Notes:
1. Sarnavap TA 138 only used on concrete decks
2. Sarnavap SA 31 and SA 106 may require a min 1/2" Thermal Barrier except on concrete decks
3. Structural Concrete (min. 3000 psi), Steel (min. 22Ga 33.4 KSI), Wood Plank (min. 2"), Plywood (min. 3/4")
4. Minimum Thermal Barrier is 1/2" Dens Deck (Prime)
5. Minimum Coverboard is 1/2" Sarnatherm HD or 1/4" Dens Deck (Prime)
6. Minimum membrane thickness is 60 mil
7. Sikaplan® Adhered or Sarnafil® G410 (Feltback) membrane adhesives, Sarnacol: 2170R, 2170VC & 2121
For up to date and accurate information, please consult the current Product Data Sheet for all Sika products at www.sika.ca
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