

**BUILDING TRUST** 

Sarnabar spaced 36" o.c. & fastened 6" o.c.

Insulation/Cover Board fastened 1 per 4 sqft.

Corner:

**CONSTRUIRE LA CONFIANCE** 

## **ROOF SYSTEM ATTACHMENT**

### **MECHANICALLY ATTACHED SYSTEMS** SYSTEM **DECK**<sup>3</sup> THERMAL VAPOUR INSULATION COVER MEMBRANE FIELD ZONES **ATTACHMENT** WIND UPLIFT **BARRIER**<sup>4</sup> RETARDER **BOARD** OF ROOF **APPROVALS PRESSURE** 6 per 4' x 8' board Field: 45 psf Perimeter: 8 per 4' x 8' board CSA A123.21 Structural Sikaplan® Min 2" Concrete. (specific 14 per 4' x 8' board Corner: Fastened Anv Optional Rhinobond Steel. Wood Sarnatherm Optional(5) test reports Sika®(1,2) or Sarnafil® Field: 8 per 4' x 8' board Plank. (CG)available upon S327 (6) Plywood request) 60 psf Perimeter: 12 per 4' x 8' board Corner: 16 per 4' x 8' board Sarnabar spaced 72" o.c. & fastened 12" o.c. Field: Insulation/Cover Board fastened 1 per 4 sqft. Sarnabar spaced 48" o.c. & fastened 12" o.c. 45 psf Perimeter: Insulation/Cover Board fastened 1 per 4 sqft. Sarnabar spaced 36" o.c. & fastened 12" o.c. FM 4470 Structural Sikaplan® Corner: (specific roof Concrete. Min 2" Insulation/Cover Board fastened 1 per 4 sqft. Anv Fastened Nav assemblies **Engineered** Steel. Wood Optional Sarnatherm Optional(5) Sika®(1,2) or Sarnafil® Sarnabar spaced 72" o.c. & fastened 6" o.c. Plank. (CG)available upon S327 (6) Field: Plywood request) Insulation/Cover Board fastened 1 per 4 sqft. Sarnabar spaced 48" o.c. & fastened 6" o.c. 60 psf Perimeter: Insulation/Cover Board fastened 1 per 4 sqft.



MECHANICALLY ATTACHED SYSTEMS (Continued)										
SYSTEM	DECK <sup>3</sup>	THERMAL BARRIER <sup>4</sup>	VAPOUR RETARDER	INSULATION	COVER BOARD	MEMBRANE	FIELD OF ROOF PRESSURE	ZONES	ATTACHMENT	WIND UPLIFT APPROVALS
Sarnafast/ Inseam	Structural Concrete, Steel, Wood Plank, Plywood	Optional	Any Sika®(1,2)	Min 2" Sarnatherm (CG)	Optional(5)	Sikaplan® Fastened or Sarnafil® S327 (6)	37.5psf	Field:	10' sheet: fastened 12" o.c. inseam	CSA A123.21 (specific test reports available upon request)
									Insulation/Cover Board fastened 1 per 4 sqft.	
								Perimeter:	5' sheet: fastened 12" o.c. inseam	
									Insulation/Cover Board fastened 1 per 4 sqft.	
								Corner:	Coverstrip (over fastener & plate attached 12" o.c.) between perimeter rows	
									Insulation/Cover Board fastened 1 per 4 sqft.	
							60 psf	Field:	10' sheet: fastened 6" o.c. inseam	CSA A123.21 (specific test reports available upon request)
									Insulation/Cover Board fastened 1 per 4 sqft.	
								Perimeter:	5' sheet: fastened 6" o.c. inseam	
									Insulation/Cover Board fastened 1 per 4 sqft.	
								Corner:	Coverstrip (over fastener & plate attached 6" o.c.) between perimeter rows	
									Insulation/Cover Board fastened 1 per 4 sqft.	
Sarnafast	Structural Concrete, Steel, Wood Plank, Plywood	Optional	Any Sika®(1,2)	Min 2" Sarnatherm (CG)	Optional(5)	Sarnafil® S327 (6)	30 psf	Field:	6.56' sheet: fastened 18" o.c. inseam	FM 4470 (specific roof Nav assemblies available upon request)
									Insulation/Cover Board fastened 1 per 4 sqft.	
								Perimeter:	6.56' sheet: fastened 12" o.c. inseam	
									Insulation/Cover Board fastened 1 per 4 sqft.	
								Corner:	6.56' sheet: fastened 6" o.c. inseam	
									Insulation/Cover Board fastened 1 per 4 sqft.	



### **ADHERED SYSTEMS** SYSTEM **DECK**<sup>3</sup> **THERMAL** VAPOUR INSULATION COVER MEMBRANE FIELD ZONES **ATTACHMENT** WIND UPLIFT **BARRIER**<sup>4</sup> RETARDER BOARD OF ROOF APPROVALS **PRESSURE** Thermal Barrier fastened at 1 per 4 sqft Field: Insulation/Cover Board adhered with Sarnacol Adhered Min 2" Low Rise Board Adhesive at 12" o.c. CSA A123.21 - PARS -Minimum Sarnatherm Sikaplan® Steel, Wood (specific Vapor Thermal Barrier fastened at 1 per 2.67 sqft Mandatory 1/2" (CG) -Adhered or Plank. Retarder SA Optional(5) 35 psf test reports Perimeter: Thermal DensDeck maxiumum Sarnafil® Insulation/Cover Board adhered with Sarnacol Plywood 31 or SA 106 available upon Barrier Prime board size is G410 (6.7)" Low Rise Board Adhesive at 6" o.c. reauest) **Attached** 4ft, X 4ft. Thermal Barrier fastened at 1 per 1.33 sqft Corner: Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive at 4" o.c. Thermal Barrier fastened at 1 per 2.67 sqft Field: Insulation/Cover Board adhered with Adhered Min 2" Sarnacol Low Rise Board Adhesive at 12" o.c. CSA A123.21 - PARS -Sarnatherm "Sikaplan® Minimum Steel, Wood (specific Vapor Thermal Barrier fastened at 1 per 1.78 sqft Mandatory 1/2" (CG) -Adhered or Plank. Retarder SA Optional(5) 50 psf test reports Perimeter: **Thermal** DensDeck maxiumum Sarnafil® Insulation/Cover Board adhered with 31 or SA 106 Plvwood available upon Sarnacol Low Rise Board Adhesive at 6" o.c. Barrier Prime board size is G410 (6,7)" request) **Attached** 4ft X 4ft Thermal Barrier fastened at 1 per 1 sqft Corner: Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive at 4" o.c. Insulation Board fastened 1 per 4 sqft. Cover Board adhered with Sarnacol Low Rise Board Adhesive at 12" o.c. Structural 1/2" CSA A123.21 Adhered "Sikaplan® Insulation Board fastened 1 per 2.67 sqft. Concrete. Min 2" Sarnatherm (specific - PARS Anv Sika® Adhered or 37.5 psf Steel, Wood Optional Sarnatherm HD or 1/4" Perimeter: test reports Cover Board adhered with Sarnacol Low Rise Sarnafil® -Mandatory (1,2)Plank. (CG)DensDeck available upon Foam at 12" o.c. Cover Board G410 (6,7)" Plywood Prime request) Insulation/Cover Board fastened 1 per 1.78 sqft.

Corner:

Foam at 6" o.c.

Cover Board adhered with Sarnacol Low Rise



### **ADHERED SYSTEMS (Continued)** SYSTEM **DECK**<sup>3</sup> THERMAL **VAPOUR** INSULATION COVER MEMBRANE **FIELD** ZONES **ATTACHMENT** WIND UPLIFT **BARRIER**<sup>4</sup> RETARDER BOARD OF ROOF APPROVALS **PRESSURE** Insulation/Cover Board fastened 1 per 4 sqft. 1/2" Structural CSA A123.21 Adhered "Sikaplan® Min 2" Concrete. Sarnatherm (specific - PARS Any Sika® Adhered or Insulation/Cover Board fastened 1 per 2.67 sqft. Steel. Wood Optional Sarnatherm HD or 1/4" 35 psf Perimeter: test reports -Mandatory (1,2)Sarnafil® Plank, (CC)DensDeck available upon **Cover Board** G410 (6.7)" Plywood Prime request) Insulation/Cover Board fastened 1 per 1.33 sqft. Field: Insulation/Cover Board fastened 1 per 4 sqft. Structural CSA A123.21 Adhered "Sikaplan® Concrete. Min 2" 1/2" (specific - PARS -Any Sika® Adhered or Steel. Wood Optional DensDeck 50 psf Insulation/Cover Board fastened 1 per 2.67 sqft. Sarnatherm Perimeter: test reports Sarnafil® Mandatory (1,2)Plank. Prime available upon (CC)**Cover Board** G410 (6,7)" Plywood request) Insulation/Cover Board fastened 1 per 1.33 sqft. Corner: Insulation/Cover Board fastened 1 per 4 sqft. Structural CSA A123.21 "Sikaplan® Adhered -Concrete. Min 2" (specific Any Sika® No cover Adhered or PARS -No Steel, Wood Optional Sarnatherm 40 psf Insulation/Cover Board fastened 1 per 2.67 sqft. test reports Perimeter: Board Sarnafil® (1,2)**Cover Board** Plank. (CC) available upon G410 (6,7)" Plywood request) Insulation/Cover Board fastened 1 per 1.33 sqft. Insulation/Cover Board adhered with Sarnacol Min 2" Field: Adhered -CSA A123.21 Low Rise Board Adhesive at 12" o.c. "Vapor Sarnatherm "Sikaplan® AARS - No (specific (CG) -Adhered or Retarder Insulation/Cover Board adhered with Sarnacol

Sarnafil®

G410 (6,7)"

35 psf

Perimeter:

Corner:

Low Rise Board Adhesive at 6" o.c.

Low Rise Board Adhesive at 4" o.c.

Insulation/Cover Board adhered with Sarnacol

For up to date and accurate information, please consult the current Product Data Sheet for all Sika products at www.sika.ca

maxiumum

board size is

4ft. X 4ft.

SA 31

or SA 106"

**Thermal** 

Deck

**Barrier Steel** 

Steel

N.A.

Optional(5)

test reports

request)

available upon





ADHERED SYSTEMS (Continued)											
SYSTEM	DECK <sup>3</sup>	THERMAL BARRIER <sup>4</sup>	VAPOUR RETARDER	INSULATION	COVER BOARD	MEMBRANE	FIELD OF ROOF PRESSURE	ZONES	ATTACHMENT	WIND UPLIFT APPROVALS	
Adhered - AARS - Thermal Barrier Steel Deck	Steel	Minimum 1/2" DensDeck Prime	"Vapor Retarder SA 31 or SA 106"	Min 2" Sarnatherm (CG) - maximum board size is 4ft. X 4ft.	1/2" Sarnatherm HD or 1/4" DensDeck Prime	"Sikaplan® Adhered or Sarnafil® G410 (6,7)"	60 psf	Field:	Thermal Barrier with Sarnacol Low Rise Board Adhesive at 6" o.c.	CSA A123.21 (specific test reports available upon request)	
									Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive at 12" o.c.		
								Perimeter:	Thermal Barrier with Sarnacol Low Rise Board Adhesive at 6" o.c.		
									Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive at 6" o.c.		
								Corner:	Thermal Barrier with Sarnacol Low Rise Board Adhesive at 6" o.c.		
									Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive at 4" o.c.		
Adhered - AARS - Concrete Deck	Structural Concrete	N.A.	Vapor Retarder SA 31, SA 106 or TA 138	Min 2" Sarnatherm (CG) - maxiumum board size is 4ft. X 4ft.	Optional(5)	"Sikaplan® Adhered or Sarnafil® G410 (6,7)"	90 psf	Field:	Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive at 12" o.c.	FM 4470 (specific	
								Perimeter:	Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive at 6" o.c.	roof Nav assemblies	
								Corner:	Insulation/Cover Board adhered with Sarnacol Low Rise Board Adhesive at 4" o.c.	available upon request)	

### **General Notes:**

Contact Sika Technical for specific testing requirements. FM 4470 specifc Roof Nav assemblies are also available for certain systems tested to CSA A123.21 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. Vapor Retarder TA 138 only used on concrete decks
- 2. Vapor Retarder 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" DensDeck (Prime)
- 5. Minimum Cover Board is 1/2" Sarnatherm HD Roof Board or 1/4" DensDeck (Prime)
- 6. Minimum membrane thickness is 60 mil
- 7. Sikaplan® Adhered (Feltback), Sarnafil® G410 (Feltback) with Sarnacol 2170R, 2170VC & 2121 adhesive or Sarnafil® G410 SA