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Publication Date:	2012-06-14
Revised:	2015-04-28
Revaluation Date:	2018-04-28

Supplier:



Mod-Bit Securock-Soprarock DD+ Duotack partially adhered System, Partially Adhered Roofing System (PARS)

Roofing System Summary:

Cap sheet membrane: Modified Bituminous membrane or allowable products
 Base Sheet Membrane: Modified Bituminous membrane or allowable products

- Cover board: Mineral wool board insulation

Insulation: Polyisocyanurate or allowable products
 Insulation: Polystyrene or allowable products
 Vapour barrier: Membrane or allowable products
 Thermal barrier: Gypsum board or allowable products

Decking: Steel Deck

- Dynamic Uplift Resistance (DUR)as per CSA A123.21:

Description	Test observation reading	With SF of 1.5
System A	-4.3 kPa (-90 psf)	-2.9 kPa(-60 psf)

Note: Allow products:

Only equivalent products included into the roofing system's report are admissible.

Optional components:

Components of the roofing system designated as optional may be included or excluded from the roofing system which will not change the published dynamic uplift resistance (DUR).

Safety factor:

As required by in the CSA A123.21 Standard, the published dynamic uplift resistance (DUR) are reduced by a safety factor of 1.5 (SF of 1.5)

Admissible wind uplift load calculation:

An online calculator is available at www.sigders.ca. The user will have to provide the following information:

- building location;
- building geometry;
- building exposure;
- building openings;
- building importance factor.

The calculator will display the allowable design load of the roof's field surface, edges and corners as well as the dimensions of the edge and corner zones.

Technical Advisories:

Assessment reports must be read in conjunction with technical advisories issued by exp Services Inc.

Values

For this document, the metric values are the standard and values in parentheses are for information only.

Notice

Exp Services Inc. reserve their right to withdraw, without prior notice, the test report performed as per CSA A123.21 Standard.

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Roofing System's Specific Data:

Cap Sheet Membrane:

- Allowable products:	Soprema		
	Sopralene Flam 180 GR	Sopralene Flam 250 GR	Soprastar Flam HD GR
	Sopralene Flam 180 FR GR	Sopralene Flam 250 FR GR	Soprastar Flam HD FR GR
	Sopralene Mammouth GR	Sopraply Traffic Cap 560	Sopraply Traffic Cap FR 561
- Attachment mode:	Heat welded		

Base sheet membrane:

	Soprema		
 Allowable product: 	Sopralene Flam 180	Elastophene Flam	Sopraply Base 520
	Sopralene Flam 250		
- Attachment mode:	Heat welded		

Cover board:

-	Allowable products:	Soprema		
		Soprarock DD +		
-	Allowable thickness:	Between 50 mm (2 in.) to 203 mm (8 in.)		
	Adhered Attached Pattern	Adhesion mode Adhesive spacing		
	For System A result	Ribbons	305	5 mm (12 in.) o.c.
-	Attachment type:	Duotack		
-	Attachment supplier:	Soprema		

Insulation First row:

- Allowable products:	Soprema		
	Sopra-Iso	Sopra-Iso +	
	Atlas Roofing Corp.		
	ACFoam II	ACFoam III	ACFoam IV
	Johns Manville		
	ENRGY 3	ENRGY 3 CGF	
	Hunter Panels		
	H-Shield	H-Shield CG	
 Allowable thickness: 	Between 25 mm (1 in.) and	203 mm (8 in.)	
Adhered Attached Pattern	Adhesion mode)	Adhesive spacing
For System A result	Ribbons	30	05 mm (12 in.) o.c.
- Attachment type:	Duotack	·	
- Attachment supplier:	Soprema		

Insulation Second row:

- Allowable products:	Generic		
·	Polystyrene Type II		
	Soprema		
	Sopra-Iso	Sopra-Iso +	
	Atlas Roofing Corp.		
	ACFoam II	ACFoam III	ACFoam IV
	Johns Manville		
	ENRGY 3	ENRGY 3 CGF	
	Hunter Panels		
	H-Shield	H-Shield CG	
 Allowable thickness: 	Between 25 mm (1 in.) and 203 mm (8 in.)		
Adhered Attached Pattern	Adhesion mode)	Adhesive spacing

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	For System A result	Ribbons	305 mm (12 in.) o.c.
-	Attachment type:	Duotack	
-	Attachment supplier:	Soprema	

Vapour Barrier:

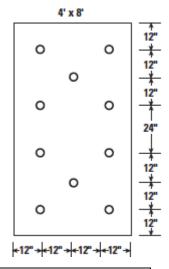
- Allowable products:	Soprema	
	Sopralene SP 3.5 mm	Sopralene SP 2.2 mm
- Attachment method:	Heat welded (required a primed on allowable thermal barrier or concrete deck with Elastocol 500)	

Or Vapour Barrier optional:

-	Allowable products:	Soprema	
		Sopravap'R	Sopralene Stick Adhesive
-	Attachment mode:	Adhered (Primer required on allowable	thermal barrier, wood deck and concrete
		deck with Elastocol stick or Elastocol Stick Zero)	
-	Attachment type:	Self-adhering membrane	·

Thermal barrier:

-	Allowable product:	CGC / USG	
		Securock Gypsum Fiber Roof Board	
		Unifix	
		PermaBase Dek	
-	Allowable thickness:	Between 6.3 mm (1/4 in.) to 25 mm (1 in.	
Mechanically attached Pattern		Row spacing	Fasteners spacing
	for System A result	10 fasteners and plates per 32 f ²	As drawing fastener pattern A
-	Attachment type:	Fasteners #14 with #3 deep recesses Ph	nillips head composed of hardened carbon
		steel and covered with an anticorrosion of	
		20 gauges rounds plate of 73 mm (2 7/8	in.), with Galvalume finish
-	Pullout fastener resistance:	214 psi or 442 lbf or 1967 Newton	
-	Attachment supplier:	Soprema	



Drawing fastener pattern A

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Decking:		
- Type:	Galvanized construction steel or coated with an aluminum/zinc alloy or PVC in accordance with ASTM A653, ASTM A792, ASTM A1008 or CSSBI 10M Standards.	
- Supplier:	Generic	
- Thickness:	0.76 mm (0.03 in.) minimum, with a yield strength of 230 MPa (33 ksi) and a tensile strength of 310 MPa (45 ksi) commonly defined as being of a 22 gauges minimum thickness.	
- Attachment method:	The deck's fastening to the supporting structure must be strong enough to resist wind uplift loads (adjusted as per NBC requirements).	
 Fastening uplift resistance (CSA S136.F04): 	2.09 kN (470 pf)	
- Equivalence:	Steel deck thickness of 18 to 22 gauges or wood deck or concrete deck with pullout resistance equal or higher than the Fastening uplift resistance specified above.	

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