



ENGINEER

TEST

CONSULT

ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21			
CUSTOMER:	Tremco CPG, INC.	TEST DATES:	2023-12-27, 2020-06-11, 2017-03-10, 2016-03-28
DOCUMENT NO.	TRM-PARS-4.1	PUBLICATION DATE:	2025-03-25
TEST PANEL NO.	TRM-D9 + TRM-D1 + TRM-9 + SMN-D11	REVISION NO.	0
SYSTEM TYPE:	B-1	REEVALUATION DATE:	2028-03-25

PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY

ROOFING SYSTEM SUMMARY:	
Membrane:	Polyester reinforced, thermoplastic single-ply, adhesive-applied
Coverboard:	Gypsum-based board, adhesive-applied
Insulation (top):	Mineral-wool board, adhesive-applied
Insulation (mid):	(Optional) Polyisocyanurate foam insulation board, adhesive-applied
Insulation (base):	Polyisocyanurate foam insulation board, topmost layer mechanically fixed
Vapor Barrier:	Any approved type, loose-laid, adhered or mechanically fixed
Thermal Barrier:	(Optional) Any approved type, loose-laid, adhered or mechanically fixed
Deck:	Wood

DYNAMIC UPLIFT RESISTANCE PER CSA A123.21:	
Test Value:	5,0 kPa (-105 psf)
Design Value: (resistance factor 0.65)	3,4 kPa (-70 psf)

PRODUCTS / APPLICATION:				
Membrane:	Description:	Membrane composed of polyester reinforcement coated with proprietary thermoplastic compound.		
	Application:	Adhesive-applied		
	Eligible Products:	Membrane	Adhesive	Rate
		TremPly KEE	TremPly KEE LV Bonding Adhesive	contact application, 0.5 gal/square per surface
		TremPly KEE FB	ASTM D312, Type II hot asphalt	wet-lay, 25 lbs/square
			THERMastic 80	wet-lay, 25 lbs/square
			POWERply Endure BIO Adhesive TF	wet-lay, 2.0 to 3.0 gal/square
			Tremco LR Adhesive	wet-lay, ribbons max. 6-inch o.c.
TremPly KEE FB Bonding Adhesive	wet-lay, 1.0 gal/square			
TremPly KEE FB WB II Bonding Adhesive	wet-lay, 0.85 to 1.0 gal/square			
Coverboard:	Description:	Gypsum-based board		
	Application:	Adhesive-applied		
	Eligible Products:	By	Product	Thickness
		Georgia-Pacific Gypsum:	DensDeck Prime	Min. 6.3-mm (0.25-inch)
USG:	SECUROCK Gypsum-Fiber Roof Board	Min. 6.3-mm (0.25-inch)		

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PRODUCTS / APPLICATION:				
Coverboard Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application Rate:	Continuous ribbons, 152-mm (6-inch) on-center		
	Eligible Products:	By	Product	
		Tremco:	Tremco Low Rise Foam Insulation Adhesive or Tremco Low Rise Foam Insulation Adhesive (BG)	
H.B. Fuller Company:	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive			
Insulation (top):	Description:	Unfaced mineral-wool board		
	Application:	Adhesive-applied		
	Eligible Products:	By	Product	Thickness
		ROCKWOOL:	MonoBoard	Min. 25.4-mm (1-inch)
TopRock DD		Min. 50.8-mm (2-inch)		
Insulation (top) Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application Rate:	Continuous ribbons, 152-mm (6-inch) on-center		
	Eligible Products:	By	Product	
		Tremco:	Tremco Low Rise Foam Insulation Adhesive or Tremco Low Rise Foam Insulation Adhesive (BG)	
H.B. Fuller Company:	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive			
Insulation (mid): <i>(Optional)</i>	Description:	Polyisocyanurate foam insulation board laminated on both sides with fiber reinforced felt or coated glass facer		
	Dimensions:	Max. 1.2 x 1.2-m x min. 25.4-mm (Max. 4 x 4 ft x min. 1-inch)		
	Application:	One or more layers, adhesive-applied		
	Eligible Products:	By	Product	
		Tremco:	Trisotech G or Trisotech CGF	
Atlas Roofing:	ACFoam II or ACFoam III			
Insulation (mid) Adhesive:	Description:	Polyurethane based insulation adhesives, hot asphalt or polymer-modified hot asphalt		
	Application Rate:	Continuous ribbons, 305-mm (12-inch) on-center		
	Eligible Products:	By	Product	
		Tremco:	Tremco Low Rise Foam Insulation Adhesive or Tremco Low Rise Foam Insulation Adhesive (BG)	
H.B. Fuller Company:	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive			
Insulation (base):	Description:	Polyisocyanurate foam insulation board laminated on both sides with fiber reinforced felt or coated glass facer		
	Dimensions:	Min. 1.2 x 1.2-m Base layer(s): any thickness Topmost layer: Min. 50.8-mm (2-inch)		
	Application:	One or more layers, optional base layer(s) loose-laid followed by topmost layer mechanically fixed		
	Eligible Products:	By	Product	
		Tremco:	Trisotech G or Trisotech CGF	
Atlas Roofing:	ACFoam II or ACFoam III			

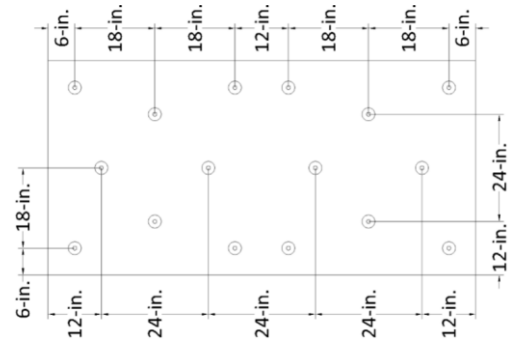
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PRODUCTS / APPLICATION:			
Insulation (base) Fasteners:	Description:	Corrosion resistant screw-type roofing fasteners with steel stress plates with proprietary coating designed to receive induction-welded membrane	
	Fastening Method:	Fasteners installed through stress plates to engage the deck	
	Fastener Density:	1 per 2.0 ft ² (16 parts per 4x8 ft board or 8 parts per 4x4 ft board)	
	Eligible Products:	By	Product
		Tremco:	Tremco #15 EHD with Tremco 3" Metal Insulation Plate
		Altenloh, Brink & Co US	Trufast #15 EHD" with Trufast 3" Metal Insulation Plate
Vapour Barrier:	Description:	Min. 6-mil polyethylene or other vapor barrier	
	Application:	Loose-laid, adhered or mechanically-attached	
	Eligible Products:	Any approved product acceptable to Tremco and the Authority Having Jurisdiction	
Thermal Barrier: (Optional)	Description:	Cement-based, gypsum-based or mineral-wool board	
	Application:	Loose-laid, adhered or mechanically-attached	
	Eligible Products:	Any approved product acceptable to Tremco and the Authority Having Jurisdiction	
Deck:	As-Tested:	Plywood sheathing	



NOTES:	
Test Value and Design Value:	The Test Value noted herein reflects the ultimate passing test pressure recorded during testing. The Design Value herein reflects the Test Value multiplied by a resistance factor of 0.65 (same as Test Value divided by a safety factor of 1.5) The Design Value should meet or exceed the design pressure requirements of the project, as determined in accordance with the current National Building Code of Canada (NBC) requirements.
Equivalence of Other Products:	This report applies only to the products listed as Eligible Products herein.
Optional Components:	Components listed herein as optional may be removed from the roof system design with no adverse effect on system dynamic wind uplift performance.
As-Tested Deck:	Testing utilized plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category, CDX, 4-ply. Alternate deck displaying equivalent strength and fastener-holding capacity (withdrawal resistance) may be specified at the discretion of the Designer of Record to the satisfaction of the Authority Having Jurisdiction.
Fastener Point-Load:	934-N (210-lbf)

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Page 4 of 4

RSAR SCOPE

Roof System Assessment Reports (RSAR) constitute a summary of allowable products and interfaces used in low-slope roof assemblies based testing in accordance with CSA A123.21 at our ISO/IEC 17025 accredited laboratory.

While RSAR's are reviewed and renewed each 3-years based primarily on report holder declaration, these are not Certification listings, and are not intended to state or imply ongoing quality control / surveillance activities by NEMO at the report holder's facilities.

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NEMO ETC CREDENTIALS

TYPE	ENTITY	REFERENCE
ISO/IEC 17025 Accreditation	International Accreditation Service (IAS)	TL-689
TAS 301 Certification	Miami-Dade	21-0409.01
Third Party Test Data Program	UL, LLC	DA2862
Test Lab Listing	Roofing Contractors Association of British Columbia	RCABC Labs

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2025-03-07	DRAFT 1	For customer review	RN
2025-03-25	FINAL	After customer review	RN

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END OF REPORT