



NEMO|etc.

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ENGINEER

TEST

CONSULT

ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21			
CUSTOMER:	Tremco CPG, Inc.	TEST DATES:	2025-09-29, 2025-09-19 (by others)
DOCUMENT NO.	TRM-PARS-8	PUBLICATION DATE:	2025-10-27
TEST PANEL NO.	TRM-D15 + TRM-D14	REVISION NO.	0
NEMO TYPE:	B-2	REEVALUATION DATE:	2028-10-27

PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY

ROOFING SYSTEM SUMMARY:	
NEMO Type:	B-2; Mechanically Fixed Thermal Barrier, Bonded Vapor Barrier, Bonded Insulation; Bonded Roof Cover
Cap Ply:	Oxidized asphaltic sheet or SBS modified bitumen, cold-adhesive applied
Ply:	(Optional) Oxidized asphaltic sheet or SBS modified bitumen, cold-adhesive applied
Base Ply:	Oxidized asphaltic sheet or SBS modified bitumen, cold-adhesive applied
Coverboard:	Asphaltic-based, cement-based, gypsum-based or wood fiber board, adhesive-applied
Insulation:	Polyisocyanurate foam board, adhesive-applied
Vapor Barrier:	Proprietary, woven polyethylene film surfaced, fiberglass reinforced, SBS modified bitumen, self-adhering or sand-surfaced, SBS modified bitumen, torch-applied or asphalt-saturated fiberglass ply sheet in hot asphalt
Thermal Barrier:	Gypsum-based board, mechanically fixed
Deck:	Steel or wood

DYNAMIC UPLIFT RESISTANCE PER CSA A123.21:					
Sustained Test Value		Design Value CSA A123.21:20 (Test Value x 0.65)		Design Value CSA A123.21:14 (Test Value ÷ 1.5)	
kPa	psf	kPa	psf	kPa	psf
-3,0	-63	-2,0	-41	-2,0	-42

PRODUCTS / APPLICATION:		
Surfacing: (Optional)	Description:	Surfacing applied for fire classification performance and/or reflectivity.
	Application:	Cold-applied, hot-applied or fluid-applied
	Eligible Products:	Any Tremco hot-applied or cold-applied flood coat and gravel or aggregate stone, or Tremco roof coating approved for use with the cap ply membrane, applied in accordance with Tremco requirements.
Cap Ply:	Description:	Membrane composed of fiberglass reinforcement coated with oxidized bitumen or fiberglass, fiberglass/polyester composite or polyester reinforcement coated with SBS modified bitumen
	Application:	BURmastic Adhesive or POWERply Standard Cold Adhesive, full-coverage, 2.0 gal/square
	Eligible Products:	BURmastic Glass Ply, BURmastic Glass Ply – 28 lb, BURmastic Composite Ply HT, BURmastic Composite Ply Premium, BURmastic Composite Ply HT Green, POWERply Standard Smooth, POWERply Heavy Duty Base, POWERply 2PM, POWERply Endure 300 FR, POWERply Endure 320 FR, POWERply Standard, POWERply Standard FR, POWERply Standard FR GT24C, POWERply Endure 100 FR, POWERply 3GR or POWERply Endure 200 FR

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PRODUCTS / APPLICATION:				
Ply: (Optional)	Description:	Membrane composed of fiberglass reinforcement coated with oxidized bitumen or fiberglass, fiberglass/polyester composite or polyester reinforcement coated with SBS modified bitumen		
	Application:	BURmastic Adhesive or POWERply Standard Cold Adhesive, full-coverage, 2.0 gal/square		
	Eligible Products:	One or more BURmastic Glass Ply, BURmastic Glass Ply – 28 lb, BURmastic Composite Ply HT, BURmastic Composite Ply Premium, BURmastic Composite Ply HT Green, POWERply Endure 300 Smooth, POWERply Endure 320 Smooth, POWERply Standard Smooth, POWERply Endure 100 Smooth, POWERply Heavy Duty Base, POWERply 2PM or POWERply Endure 200 Smooth		
Base Ply:	Description:	Membrane composed of fiberglass reinforcement coated with oxidized bitumen or fiberglass, fiberglass/polyester composite or polyester reinforcement coated with SBS modified bitumen		
	Application:	BURmastic Adhesive or POWERply Standard Cold Adhesive, full-coverage, 2.0 gal/square		
	Eligible Products:	BURmastic Glass Ply, BURmastic Glass Ply – 28 lb, BURmastic Composite Ply HT, BURmastic Composite Ply Premium, BURmastic Composite Ply HT Green, POWERply Endure 300 Smooth, POWERply Endure 320 Smooth, POWERply Standard Smooth, POWERply Endure 100 Smooth, POWERply Heavy Duty Base, POWERply 2PM or POWERply Endure 200 Smooth		
Coverboard:	Description:	Asphaltic-based, cement-based, gypsum-based or wood fiber board		
	Application:	Adhesive-applied		
	Eligible Products:	By	Product	Thickness
		Tremco	Tremboard AC	Min. 3.2-mm (0.125-inch)
		Blue Ridge Fiberboard	Sturdy-Dek Asphaltic Cover Board	
		USG	SECUROCK Cement Roof Board	Min. 12.7-mm (0.5-inch)
		Georgia-Pacific Gypsum	DensDeck Prime	Min. 6.4-mm (0.25-inch)
		National Gypsum	DEXcell FA Glass Mat Roof Board	
USG		SECUROCK Gypsum-Fiber Roof Board		
Blue Ridge Fiberboard	StructoDek High Density Fiberboard Roof Insulation	Min. 12.7-mm (0.5-inch)		
Coverboard Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application:	Continuous ribbons, max. 305-mm (12-inch) on-center		
	Eligible Products:	By	Product	
Tremco CPG		Low Rise Foam Insulation Adhesive, Low Rise Foam Insulation Adhesive (BG) or Tremco PSF Adhesive		
HB Fuller Company	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive			

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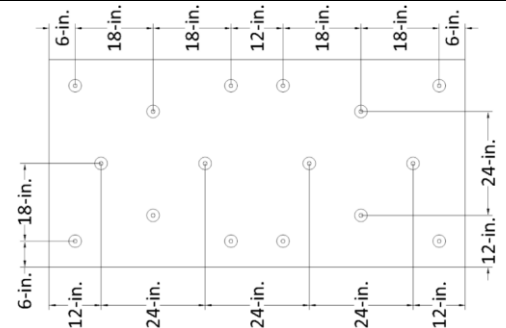
PRODUCTS / APPLICATION:					
Insulation:	Description:	Polyisocyanurate foam board laminated on both sides with fiber reinforced felt or coated fiberglass facer			
	Application:	One or more layer(s), adhesive-applied			
	Eligible Products:	By	Product		Dimensions Max. 1.2 x 1.2-m (4 x 4 ft) x min. 25-mm (1-inch) thick
		Tremco CPG	Trisotech, Trisotech G or Trisotech CGF		
		Amrize / Elevate	ISOGARD GL or ISOGARD CG		
		Atlas Roofing	ACFoam II or ACFoam III		
		GAF	EnergyGuard Polyiso Insulation		
		Hunter Panels	H-Shield		
Johns Manville		ENRGY 3			
Rmax Ltd	Multi-Max FA3 or UltraMax				
Insulation Adhesive:	Description:	Polyurethane based insulation adhesive			
	Application:	Continuous ribbons, max. 305-mm (12-inch) on-center			
	Eligible Products:	By	Product		
		Tremco CPG	Low Rise Foam Insulation Adhesive, Low Rise Foam Insulation Adhesive (BG) or Tremco PSF Adhesive		
HB Fuller Company	Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive				
Vapour Barrier:	OPTION NO.:	Option 1	Option 2	Option 3	
	Description:	Proprietary woven polyethylene film surfaced, fiberglass reinforced, SBS modified bitumen	Sand-surfaced, SBS modified bitumen	Asphalt-saturated fiberglass ply sheet	
	Application:	Self-adhering	Torch-applied	Two (2) plies in ASTM D312, Type III hot asphalt	
	Eligible Products:	AVC Max Membrane	POWERply Standard Smooth HW	THERMglass Type IV	
Primer:	Description:	Solvent-based or water-based primer	(Optional) Asphaltic primer	(Optional) Asphaltic primer	
	Application:	~250 ft ² /gallon	0.5 gal/square	0.5 gal/square	
	Eligible Products:	AVC Membrane Primer or AVC Membrane Primer (WB)	ASTM D41 compliant	ASTM D41 compliant	
Thermal Barrier:	Description:	Gypsum-based board			
	Application:	Mechanically fixed			
	Eligible Products:	By	Product		Thickness Min. 12.7-mm (0.5-inch)
		Georgia-Pacific Gypsum:	DensDeck Prime		
USG	SECUROCK Gypsum-Fiber Roof Board				

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PRODUCTS / APPLICATION:			
Thermal Barrier Fasteners:	Description:	Corrosion resistant screw-type roofing fasteners with steel stress plates	
	Fastening Method:	Fasteners installed through stress plates to engage the top flanges of the steel deck	
	Fastener Density:	1 per 2 ft ² (16 parts per 4x8 ft board or 8 parts per 4x4 ft board)	
	Eligible Products:	By	Product
Tremco CPG		Tremco #12 DP, Tremco #14 HD or Tremco #15 EHD with Tremco 3" Metal Insulation Plate	
	Altenloh, Brink & Co US	Trufast #12 DP, Trufast #14 HD or Trufast #15 EHD with Trufast 3" Metal Insulation Plate	
Deck:	As-Tested:	Steel roof deck	
	Extended:	Plywood roof deck	



NOTES:				
Test Value and Design Value:	<p>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, or divided by a safety factor of 1.5.</p> <p>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.</p>			
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:	<p>Testing utilized 22 ga., Type B (6-inch deck module) steel deck meeting ASTM A653, A792, A1008 or CSSBI 10M standard and having a yield strength of 275 MPa (40-ksi).</p> <p>Results extended to plywood, APA rated sheathing, 40/20, Exposure 1, PS1, 19/32 category, CDX. min. based on previous testing (TRM-D14).</p> <p>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.</p>			
Fastener Point-Loads:	Point-Load			
	Sustained Test Value		Design Value	
	N	lbf	N	lbf
	560	126	364	82

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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.

NEMO ETC, LLC is not, in any way, the Designer of Record for any project on which these RSAR's, or previous versions thereof, is/was used for permitting or design guidance. RSAR's are not to be construed as representing any attributes not specifically listed, nor to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by NEMO ETC, LLC, express or implied, as to any finding or other matter in these RSAR's, or as to any product covered by the RSAR's.

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:
2025-10-24	DRAFT 1	For customer review	RN
2025-10-27	FINAL	After customer review	RN

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END OF REPORT