



ENGINEER

TEST

CONSULT

**ROOF SYSTEM ASSESSMENT REPORT
DYNAMIC UPLIFT RESISTANCE PER CSA A123.21**

CUSTOMER:	Tremco CPG, INC.	TEST DATES:	2023-12-27, 2017-03-10, 2016-03-28
DOCUMENT NO.	TRM-PARS-3.3	PUBLICATION DATE:	2025-03-25
TEST PANEL NO.	TRM-D9 + TRM-D1 + TRM-9	REVISION NO.	0
SYSTEM TYPE:	B-1	REEVALUATION DATE:	2028-03-25

PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY

ROOFING SYSTEM SUMMARY:	
Cap Ply:	Oxidized asphalt BUR-ply or SBS modified bitumen, hot-applied
Ply:	(Optional) Oxidized asphalt BUR-ply or SBS modified bitumen, hot-applied
Base Ply:	Oxidized asphalt BUR-ply or SBS modified bitumen, hot-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: <i>(resistance factor 0.65)</i>	3,4 kPa (-70 psf)
PRODUCTS / APPLICATION:	
Surfacing: <i>(Optional)</i>	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 saturated and coated with oxidized asphalt or fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen
	Application: ASTM D312, Type III hot asphalt at 20-40 lbs/sq. or THERMastic 80 or THERMastic 100 at 25-30 lbs/sq.
	Eligible Products: THERMglass Type IV, THERMglass Premium VI, 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, POWERply Endure 200 Smooth, POWERply Endure 300 FR, POWERply Endure 320 FR, POWERply Standard, POWERply Standard FR, POWERply Endure 100 FR, POWERply 3GR or POWERply Endure 200 FR

ROOF SYSTEM ASSESSMENT REPORT, DYNAMIC UPLIFT RESISTANCE PER CSA A123.21

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PRODUCTS / APPLICATION:							
Ply: (Optional)	Description:	Membrane composed of fiberglass reinforcement saturated and coated with oxidized asphalt or fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen					
	Application:	ASTM D312, Type III hot asphalt at 20-40 lbs/sq. or THERMastic 80 or THERMastic 100 at 25-30 lbs/sq.					
	Eligible Products:	One or more plies THERMglass Type IV, THERMglass Premium VI, 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 and/or POWERply Endure 200 Smooth					
Base Ply:	Description:	Membrane composed of fiberglass reinforcement saturated and coated with oxidized asphalt or fiberglass, polyester or fiberglass/polyester composite reinforcement coated with SBS modified bitumen					
	Application:	ASTM D312, Type III hot asphalt at 20-40 lbs/sq. or THERMastic 80 or THERMastic 100 at 25-30 lbs/sq.					
	Eligible Products:	THERMglass Type IV, THERMglass Premium VI, 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 and/or POWERply Endure 200 Smooth					
Coverboard:	Description:	Gypsum-based board					
	Application:	Adhesive-applied					
	Eligible Products:	<table border="1"> <thead> <tr> <th>By</th> <th>Product</th> <th>Thickness</th> </tr> </thead> <tbody> <tr> <td>Georgia-Pacific Gypsum:</td> <td>DensDeck Prime</td> <td>Min. 6.3-mm (0.25-inch)</td> </tr> </tbody> </table>	By	Product	Thickness	Georgia-Pacific Gypsum:	DensDeck Prime
By	Product	Thickness					
Georgia-Pacific Gypsum:	DensDeck Prime	Min. 6.3-mm (0.25-inch)					
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				
		ROCKWOOL:	<table border="1"> <tbody> <tr> <td>MonoBoard</td> <td>Min. 25.4-mm (1-inch)</td> </tr> <tr> <td>TopRock DD</td> <td>Min. 50.8-mm (2-inch)</td> </tr> </tbody> </table>	MonoBoard	Min. 25.4-mm (1-inch)	TopRock DD	Min. 50.8-mm (2-inch)
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						

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PRODUCTS / APPLICATION:				
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			
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: <i>(Optional)</i>	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		

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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)

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:
2025-03-07	DRAFT 1	For customer review	RN
2025-03-25	FINAL	After customer review	RN

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END OF REPORT