



NEMO|etc.

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ENGINEER

TEST

CONSULT

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

CUSTOMER:	Polyglass USA, Inc.	TEST DATES:	2016-08-23
DOCUMENT NO.	PLYG-PARS-1.15	PUBLICATION DATE:	2025-05-09
TEST PANEL NO.	PLYG-3	REVISION NO.	2
SYSTEM TYPE:	B-1	REEVALUATION DATE:	2028-05-09

PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY

ROOFING SYSTEM SUMMARY:

Cap Ply:	APP or SBS modified bitumen, torch-applied
Ply:	(Optional) APP or SBS modified bitumen, torch-applied
Base Ply:	APP or SBS modified bitumen, torch-applied
Coverboard:	Gypsum-based or cement-based 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:	Steel

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
-4.6	-96	-3.0	-62	-3.1	-64

PRODUCTS / APPLICATION:

Cap Ply:	Description:	Membrane composed of fiberglass, polyester or fiberglass/polyester composite reinforcement coated with APP or SBS modified bitumen
	Application:	Torch-applied
	Eligible Products:	Polyflex, Polyflex G, Polyflex G FR, Polybond, Polybond G, Polyfresko G, Polyfresko G FR, Elastoshield HT G, Elastoshield HT G FR, Elastoflex V, Elastoflex V G, Elastoflex V G FR, Elastoflex S6, Elastoflex VP, Elastoflex S6 HP, Elastoflex VP HP, Elastoflex S6 G, Elastoflex VP G, Elastoflex S6 G FR, Elastoflex VP G FR, Elastoshield TS G, Elastoshield TS G FR, Polyfresko G SBS or Polyfresko G SBS FR
Ply: (Optional)	Description:	Membrane composed of fiberglass, polyester or fiberglass/polyester composite reinforcement coated with APP or SBS modified bitumen
	Application:	Torch-applied
	Eligible Products:	One or more plies Polybase V, Polyflex, Polybond, Elastobase V, Elastoflex V, Elastoflex S6, Elastoflex VP, Elastoflex S6 HP, Elastoflex VP HP, Elastoshield VP HT or Elastoshield TS

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PRODUCTS / APPLICATION:				
Base Ply:	Description:	Membrane composed of fiberglass, polyester or fiberglass/polyester composite reinforcement coated with APP or SBS modified bitumen		
	Application:	Torch-applied		
	Eligible Products:	Polybase V, Polyflex, Polybond, Elastobase V, Elastoflex V, Elastoflex S6, Elastoflex VP, Elastoflex S6 HP, Elastoflex VP HP, Elastoshield VP HT or Elastoshield TS		
Coverboard:	Description:	Gypsum-based or cement-based board		
	Dimensions:	Min. 1.2 x 1.2-m (4 x 4 ft) x thickness noted below		
	Application:	Adhesive-applied		
	Eligible Products:	By	Product	Min. Thickness
		Georgia-Pacific Gypsum	DensDeck Prime	12.7-mm (0.5-inch)
		National Gypsum Company	DEXcell FA Glass Mat Roof Board	12.7-mm (0.5-inch)
DEXcell Cement Roof Board			11.1-mm (0.4375-inch)	
United States Gypsum Company	SECUROCK Gypsum-Fiber Roof Board	12.7-mm (0.5-inch)		
	SECUROCK Cement Roof Board	12.7-mm (0.5-inch)		
Coverboard Adhesive:	Description:	Polyurethane based insulation adhesive		
	Application Rate:	Continuous ribbons, 305-mm (12-inch) on-center		
	Eligible Products:	Polyglass LRF M or Polyglass LRF M-PG		
Insulation (mid): <i>(Optional)</i>	Description:	Polyisocyanurate foam insulation board laminated on both sides with fiber reinforced felt or coated fiberglass		
	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:	Polytherm-H or Polytherm CG		
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:	Polyglass LRF M or Polyglass LRF M-PG		

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PRODUCTS / APPLICATION:								
Insulation (base):	Description: Polyisocyanurate foam insulation board laminated on both sides with fiber reinforced felt or coated fiberglass							
	Dimensions: Min. 1.2 x 1.2-m (4 x 4 ft) Base layer(s): any thickness Topmost layer: Min. 38-mm (1.5-inch)							
	Application: One or more layers, optional base layer(s) loose-laid followed by topmost layer mechanically fixed							
	Eligible Products: Polytherm-H or Polytherm CG							
Insulation (base) 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 3.2 ft ² (10 parts per 4x8 ft board or 5 parts per 4x4 ft board)							
	Eligible Products:	<table border="1"> <thead> <tr> <th>By</th> <th>Product</th> </tr> </thead> <tbody> <tr> <td>Altenloh, Brink & Co US</td> <td>Trufast #12 DP, Trufast #14 HD or Trufast #15 EHD with Trufast 3" Metal Insulation Plate</td> </tr> <tr> <td>OMG, Inc.</td> <td>OMG #12 Standard RoofGrip, OMG Heavy Duty Fastener or OMG XHD with OMG 3 in. Ribbed Galvalume Plate</td> </tr> </tbody> </table>	By	Product	Altenloh, Brink & Co US	Trufast #12 DP, Trufast #14 HD or Trufast #15 EHD with Trufast 3" Metal Insulation Plate	OMG, Inc.	OMG #12 Standard RoofGrip, OMG Heavy Duty Fastener or OMG XHD with OMG 3 in. Ribbed Galvalume Plate
		By	Product					
		Altenloh, Brink & Co US	Trufast #12 DP, Trufast #14 HD or Trufast #15 EHD with Trufast 3" Metal Insulation Plate					
OMG, Inc.	OMG #12 Standard RoofGrip, OMG Heavy Duty Fastener or OMG XHD with OMG 3 in. Ribbed Galvalume 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 Polyglass 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: Steel roof deck							

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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 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). 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:	The insulation fastener point-loads resisted during this test are: <ul style="list-style-type: none"> • Test Value: 1366 N (307 lbf) • Design Value: 890 N (200 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:
2018-02-26	FINAL	None	RN
2021-02-19	REV1	Re-Validation	RN
		Name change: Elastobase to Elastobase V	
		Name change: Polyglass HT Base 650 to Elastoshield VP HT	
2025-05-09	REV2	Customer directed edits	RN
		Combine with PLYG-PARS-1.16, 1.18, 1.19, 1.22, 1.24	

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END OF REPORT