



**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:	2017-12-20
DOCUMENT NO.	PLYG-PARS-7.2	PUBLICATION DATE:	2025-05-12
TEST PANEL NO.	PLYG-D12	REVISION NO.	2
SYSTEM TYPE:	B-1	REEVALUATION DATE:	2028-05-12

**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, self-adhering
Coverboard:	Gypsum-based board, adhesive-applied
Insulation (base):	Polyisocyanurate foam insulation board, topmost layer mechanically fixed
Vapor Barrier:	Kraft paper, loose-laid or SBS modified bitumen, self-adhering
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
-2,2	-45	-1,4	-29	-1,4	-30

**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 reinforcement coated with APP or SBS modified bitumen with an SBS modified bitumen self-adhering compound on the back side								
	Application:	Self-adhering								
	Eligible Products:	Elastobase SA, Elastoflex SA V (2.0mm), Elastoflex SA V FR (2.0mm), Elastoflex SA V Plus (2.5mm), Elastoflex SA V Plus FR (2.5mm), Elastoflex SA Base or Polyflex SA Base								
Primer: (Optional)	Description:	Water-based acrylic primer								
	Application:	1 gallon per 300 ft <sup>2</sup>								
	Eligible Products:	WB-3000								
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:	<table border="1"> <thead> <tr> <th>By</th> <th>Product</th> <th>Min. Thickness</th> </tr> </thead> <tbody> <tr> <td>Georgia-Pacific Gypsum</td> <td>DensDeck Prime</td> <td>6.3-mm (0.25-inch)</td> </tr> <tr> <td>United States Gypsum Company</td> <td>SECUROCK Gypsum-Fiber Roof Board</td> <td>6.3-mm (0.25-inch)</td> </tr> </tbody> </table>	By	Product	Min. Thickness	Georgia-Pacific Gypsum	DensDeck Prime	6.3-mm (0.25-inch)	United States Gypsum Company	SECUROCK Gypsum-Fiber Roof Board
By	Product	Min. Thickness								
Georgia-Pacific Gypsum	DensDeck Prime	6.3-mm (0.25-inch)								
United States Gypsum Company	SECUROCK Gypsum-Fiber Roof Board	6.3-mm (0.25-inch)								
Coverboard Adhesive:	Description:	Polyurethane based insulation adhesive								
	Application Rate:	Continuous ribbons, 305-mm (12-inch) on-center								
	Eligible Products:	Polyglass LRF M, Polyglass LRF M-PG or Polyglass LRF CR								
Insulation (mid): (Optional)	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, Polytherm G, 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, Polyglass LRF M-PG or Polyglass LRF CR								

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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 <sup>2</sup> (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>Polyglass</td> <td>#12 Polygrip, #14 Polygrip or #15 Polygrip with Polygrip Hex Plate</td> </tr> <tr> <td>Altenloh, Brink &amp; 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" Galvalume Steel Plate</td> </tr> <tr> <td>SFS Group USA</td> <td>Dekfast DF-#12-PH3, DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-R-3 or PLT-H-2-7/8</td> </tr> </tbody> </table>	By	Product	Polyglass	#12 Polygrip, #14 Polygrip or #15 Polygrip with Polygrip Hex Plate	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" Galvalume Steel Plate	SFS Group USA	Dekfast DF-#12-PH3, DF-#14-PH3 or DF-#15-PH3 with Dekfast PLT-R-3 or PLT-H-2-7/8
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Eligible Products:	Polyglass: Elastobase SA or Elastoflex SA V											
	Polytarp Products: Super Six™ Vapour Barrier											
	SPAR Roofing: SPAR Marathon Vapour Barrier											
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"> <li>• Test Value: 641 N (144 lbf)</li> <li>• Design Value: 427 N (96 lbf)</li> </ul>

**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)	<a href="#">TL-689</a>
TAS 301 Certification	Miami-Dade	<a href="#">21-0409.01</a>
Third Party Test Data Program	UL, LLC	<a href="#">DA2862</a>
Test Lab Listing	Roofing Contractors Association of British Columbia	<a href="#">RCABC Labs</a>

**REPORT HISTORY**

DATE	EVENT	NOTES	AUTHORIZED BY:
2020-05-04	FINAL	None	RN
2021-02-19	REV1	Re-Validation Name change: Elastobase to Elastobase V Name change: ElastoShield HT to Elastoshield VP HT Add: Elastobase SA	RN
2025-05-12	REV2	Customer directed edits	RN

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**END OF REPORT**