



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

CLIENT:	The Garland Company	TEST DATE:	2018-01-10
DOCUMENT NO.	GRL-PARS-1.4	PUBLICATION DATE:	2024-08-29
TEST PANEL NO.	GRL-D4	REVISION NO.	2
SYSTEM TYPE:	B-1	REEVALUATION DATE:	2027-03-18

**PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY**

PERFORMANCE ⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (RESISTANCE FACTOR 0.65)
	55 psf (2.6 kPa)	37 psf (1.8 kPa)

COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT

<b>SURFACING ⇒</b>	(Optional) One of the following: 1. Minimum 400-lbs/100-ft. <sup>2</sup> roofing gravel* in a flood coat of hot roofing asphalt at 60 lbs/square, or 2. Adhered surfacing options specified in UL Certifications under UL File <a href="#">TGFU.R8384</a> . *Refer to local Building Code for limitations concerning use of gravel surfacing.	
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<b>CAP PLY ⇒</b>	StressPly, StressPly FR Mineral, StressPly E, StressPly E FR Mineral, StressPly EUV, StressPly EUV FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80, VersiPly Mineral, BiFlex Cap, BiFlex Cap Mineral, OptiMax or OptiMax FR Mineral	Weatherking at 2.5 gal/square.
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<b>BASE PLY ⇒</b>	StressBase 80, StressBase 120, FlexBase 80, FlexBase Plus 80 or FlexBase E 80	Weatherking at 2.5 gal/square.
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<b>COVERBOARD ⇒</b>	Min. 0.5-inch USG "SECUROCK Gypsum-Fiber Roof Board"	Hot asphalt at 25-30 lbs/square.
		InsulLock HR, continuous ribbons, 12-inch o.c.

<b>INSULATION ⇒</b>	One or more layer(s), top layer min. 2-inch thick, Atlas "ACFoam II", Hunter "H-Shield" or Johns Manville "ENRGY 3"	Topmost layer mechanically attached: ✓ Altenloh "Trufast #14 HD" with "Trufast 3" Metal Insulation Plate" ✓ OMG "#14 Roofgrip" with "OMG 3 in. Galvalume Steel Plate" or "AccuTrac Plate" ✓ SFS Group "Dekfast DF-#14-PH3" with "Dekfast PLT-H-2-7/8"	1 per 2.9 ft <sup>2</sup> (11 parts per 4x8 ft board)

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COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
VAPOUR BARRIER ⇒	Grip-Rite Titan™ LD or other kraft paper or 6-mil polyethylene or	Loose laid
	VaporSmart SA	Self-adhering
THERMAL BARRIER (OPTIONAL) ⇒	Any type or thickness acceptable to the Authority Having Jurisdiction	Loose-laid, adhered or mechanically-attached
DECK ⇒	Minimum 22 ga. type B steel meeting ASTM A653, A792, A1008 or CSSBI 10M standards and having a yield strength of 275 MPa (40 ksi), or alternate steel deck providing the fastener withdrawal resistance noted below.	
INSULATION FASTENER POINT-LOAD ⇒	160 lbf (712 N)	

**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)	<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:
2018-02-27	FINAL	After customer review	RN
2024-03-18	REV1	3-year renewal	RN
2024-08-29	REV2	Update vapor barrier options	RN

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**END OF REPORT**