



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

CLIENT:	The Garland Company	TEST DATE:	2020-09-21
DOCUMENT NO.	GRL-PARS-1.6B	PUBLICATION DATE:	2024-03-18
TEST PANEL NO.	GRL-D5 + GRL-D6	REVISION NO.	3
SYSTEM TYPE:	B	REEVALUATION DATE:	2027-03-18

PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY

PERFORMANCE ⇨	PASSING PRESSURE	WIND UPLIFT RESISTANCE (RESISTANCE FACTOR 0.65)
		83 psf (4.0 kPa)

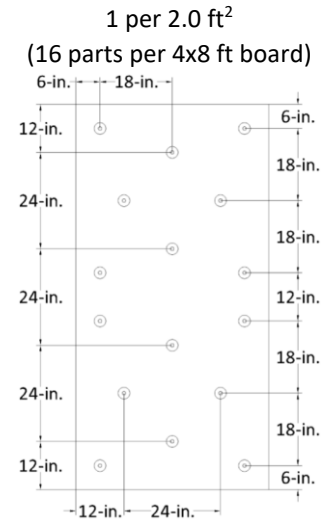
COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
SURFACING ⇨	(Optional) One of the following: 1. Minimum 400-lbs/100-ft. ² roofing gravel* in a flood coat of hot roofing asphalt at 60 lbs/square, or 2. Adhered surfacing options specified in UL Certifications under UL File TGFU.R8384 . *Refer to local Building Code for limitations concerning use of gravel surfacing.	
CAP PLY ⇨	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	Hot asphalt at 25-30 lbs/square.
PLY ⇨	(Optional) FlexBase 80, FlexBase Plus 80 or FlexBase E 80	Hot asphalt at 25-30 lbs/square.
BASE PLY ⇨	FlexBase 80, FlexBase Plus 80 or FlexBase E 80	Hot asphalt at 25-30 lbs/square.
COVERBOARD ⇨	Min. 0.5-inch Blue Ridge "STRUCTODEK HD with Primed Red Coating"	Hot asphalt at 25-30 lbs/square or

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COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
INSULATION ⇒	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” or “Dekfast PLT-R-3”
VAPOUR BARRIER ⇒	Grip-Rite Titan™ LD or other kraft paper or 6-mil polyethylene	Loose laid
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 ⇒	166 lbf (738 N)	



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:
2020-12-28	FINAL	After customer review	RN
2021-02-25	REV1	Add surfacing options	RN
2022-11-01	REV2	Break-out min. 2-ply modified bitumen from BUR systems	RN
2024-03-18	REV3	3-year renewal	RN

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END OF REPORT