



ENGINEER

EVALUATE

TEST

CONSULT

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

CLIENT:	The Garland Company	TEST DATE:	2020-09-21 & 2020-11-04
DOCUMENT NO.	GRL-PARS-1.8	PUBLICATION DATE:	2023-11-07
TEST PANEL NO.	GRL-D5 + GRL-D7	REVISION NO.	R2
SYSTEM TYPE:	B	REEVALUATION DATE:	2026-11-06

PARTIALLY ADHERED ROOFING SYSTEM (PARS) SUMMARY

PERFORMANCE⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (with SF of 1.5)
	100 psf (4.8 kPa)	67 psf (3.2 kPa)

COMPONENT	ALLOWABLE PRODUCTS	BY
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.	The Garland Company, Inc.
*NOTE:	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 Legacy, StressPly Legacy FR Mineral, StressPly Plus, StressPly Plus FR Mineral, VersiPly 80 or VersiPly Mineral, OptiMax or OptiMax FR Mineral	The Garland Company, Inc.
ATTACHMENT:	hot asphalt at 25-30 lbs/square (no StressPly Legacy or StressPly Legacy FR Mineral) or	generic
	Garlastic KM Plus at 25-30 lbs/square or	The Garland Company, Inc.
	WeatherKing at 2.0 gal/square	
PLY⇒	(Optional) FlexBase 80, FlexBase Plus 80, or FlexBase E 80	The Garland Company, Inc.
ATTACHMENT:	hot asphalt at 25-30 lbs/square or	generic
	Garlastic KM Plus at 25-30 lbs/square	The Garland Company, Inc.
BASE PLY⇒	FlexBase 80, FlexBase Plus 80, or FlexBase E 80	The Garland Company, Inc.
ATTACHMENT:	hot asphalt at 25-30 lbs/square or	generic
	Garlastic KM Plus at 25-30 lbs/square or	The Garland Company, Inc.
	WeatherKing at 2.0 gal/square	

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

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COMPONENT	ALLOWABLE PRODUCTS	BY
INSULATION, TOP LAYER⇒	Min. 0.5-inch SECUROCK Gypsum-Fiber Roof Board	USG
ATTACHMENT:	hot asphalt or	25-30 lbs/square
	Insul-Lock HR	ribbons, 12-inch o.c.
INSULATION, BASE LAYER⇒	One or more layers; top layer min. 2-inch thick	
	ACFoam II	Atlas Roofing
	H-Shield	Hunter Panels
	ENRGY 3	Johns Manville
ATTACHMENT:	1 per 2.0 ft ² (16 parts per 4x8 ft board)	
	Dekfast DF-#14-PH3 with Dekfast PLT-H-2-7/8 or Dekfast PLT-R-3	SFS Intec
	OMG Roofgrip #14 with OMG 3 in. Galvalume Steel Plate or OMG AccuTrac Plate	OMG
	TRUFAST #14 HD with TRUFAST 3" Metal Insulation Plate	Altenloh, Brinck & Co.
VAPOUR BARRIER⇒	Grip-Rite Titan™ LD or other kraft-paper or polyethylene film	Various
ATTACHMENT:	loose-laid	
THERMAL BARRIER⇒	(Optional) Thermal barrier of any specified type or thickness	Various
ATTACHMENT:	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 40 ksi (275 MPa), or alternate steel deck providing the fastener withdrawal resistance noted below	Various
FASTENER POINT-LOAD⇒	200 lbf (890 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

REPORT HISTORY

DATE	EVENT	NOTES	AUTHORIZED BY:
2020-12-28	FINAL issued	None	RN
2021-02-25	REV 1 issued	Add surfacing options	RN
2023-10-25	DRAFT REV2 issued	Add StressPly Legacy options; for client review	RN
2023-11-06	DRAFT2 REV2 issued	Add Garlastic KM Plus; for client review	RN
2023-11-07	REV 2 issued	After client review	RN

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END OF REPORT