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ENGINEER

EVALUATE

TEST

CONSULT

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

CLIENT:	DURO-LAST, INC.	TEST DATE:	2017-06-28
DOCUMENT NO.	DL-MARS-5	PUBLICATION DATE:	2022-07-12
TEST PANEL NO.	DRL-D1C	REVISION NO.	1
SYSTEM TYPE:	D-1	REEVALUATION DATE:	2025-07-12

**MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY**

PERFORMANCE⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (with SF of 1.5)
	64 psf (3.1 kPa)	43 psf (2.1 kPa)

COMPONENT	ALLOWABLE PRODUCTS	BY
MEMBRANE⇒	Duro-Last, min. nominal 40-mil	Duro-Last, Inc.
ATTACHMENT:	Mechanically attached, 12-inch o.c. within 3-inch wide fastening tabs spaced 60-inch o.c.	
	Duro-Last #15 Extra Heavy Duty with Duro-Last Poly-Plates or Duro-Last Cleat-Plates	Duro-Last, Inc.
INSULATION, TOP LAYER⇒	Min. 0.5-inch DURO-GUARD EPS FAN FOLD or 3/8-inch DURO-GUARD XPS FAN FOLD	Duro-Last, Inc.
ATTACHMENT:	Mechanically attached; 1 per 5.3 ft <sup>2</sup> ; 6 parts per 4x8 ft board	
	Duro-Last #14 Heavy Duty with Duro-Last 3-inch Metal Plates	Duro-Last, Inc.
EXISTING ROOF⇒	Existing four-ply built-up roof (BUR) with gravel	N/A
DECK⇒	Existing 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), minimum 19/32-inch APA rated CDX plywood or alternate steel or plywood wood deck providing the fastener withdrawal resistance noted below	Various
FASTENER POINT-LOAD⇒	Insulation Fasteners: 339 lbf (1508 N) Membrane Fasteners: 320 lbf (1423 N)	

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

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Page 2 of 2

**NEMO|etc.****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="#">www.rcabc.org</a>

**REPORT HISTORY**

DATE	EVENT	NOTES	AUTHORIZED BY:
2021-01-11	FINAL	None	RN
2022-07-12	RE-EVALUATION 1	None	RN

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