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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:	2017-06-30
DOCUMENT NO.	DL-MARS-9	PUBLICATION DATE:	2022-07-12
TEST PANEL NO.	DRL-D1E	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)
	80 psf (3.8 kPa)	53 psf (2.5 kPa)

COMPONENT	ALLOWABLE PRODUCTS	BY
MEMBRANE⇒	Duro-Tuff, min. nominal 50-mil	Duro-Last, Inc.
ATTACHMENT:	Mechanically attached, 12-inch o.c. within 6-inch wide side laps spaced 54-inch o.c. Side laps sealed with 1.5-inch wide heat weld.	
	Duro-Last #15 Extra Heavy Duty with Duro-Last Poly-Plates or Duro-Last Cleat-Plates	Duro-Last, Inc.
INSULATION, TOP LAYER⇒	Min. 1.5-inch thick DURO-GUARD ISO II-A, DURO-GUARD ISO II-G, DURO-GUARD ISO II-H, DURO-GUARD ISO III-A or DURO-GUARD ISO III-H	Duro-Last, Inc.
ATTACHMENT:	Mechanically attached; 1 per 6.4 ft <sup>2</sup> ; 5 parts per 4x8 ft board	
	Duro-Last #14 Heavy Duty with Duro-Last 3-inch Metal Plates	Duro-Last, Inc.
INSULATION, BASE LAYER⇒	(Optional) One or more layers DURO-GUARD ISO II-A, DURO-GUARD ISO II-G, DURO-GUARD ISO II-H, DURO-GUARD ISO III-A or DURO-GUARD ISO III-H, any thickness	Duro-Last, Inc.
ATTACHMENT:	Loose-laid	
VAPOUR BARRIER⇒	(Optional) Duro-Blue or Duro-Last Vapor Barrier	Duro-Last, Inc.
ATTACHMENT:	Duro-Blue: Loose-laid with taped joints Duro-Last Vapor Barrier: self-adhering	
THERMAL BARRIER⇒	(Optional) Thermal barrier of any approved type or thickness	Various
ATTACHMENT:	loose-laid, adhered or mechanically attached	
DECK⇒	Minimum 19/32-inch APA rated CDX plywood or alternate plywood deck providing the fastener withdrawal resistance noted below	Various
FASTENER POINT-LOAD⇒	Insulation Fasteners: 512 lbf (2277 N) Membrane Fasteners: 360 lbf (1601 N)	

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**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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