



ENGINEER

EVALUATE

TEST

CONSULT

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

CLIENT:	Duro-Last, Inc.	TEST DATE:	2023-01-19
DOCUMENT NO.	DL-MARS-18	PUBLICATION DATE:	2023-03-09
TEST PANEL NO.	DL-D6	REVISION NO.	0
SYSTEM TYPE:	D-1	REEVALUATION DATE:	2026-03-09

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY

PERFORMANCE ⇒	PASSING PRESSURE	WIND UPLIFT RESISTANCE (RESISTANCE FACTOR 0.65)
	64 psf (3.1 kPa)	43 psf (2.1 kPa)

COMPONENT	ALLOWABLE PRODUCTS	
	PRODUCT	ATTACHMENT
MEMBRANE ⇒	"Duro-Last X™" (min. nominal 50-mil)	"Duro-Last #15 Extra Heavy Duty Drill Point Fasteners" with "Duro-Last Cleat Plates", maximum 6-inch o.c. within the minimum 6-inch wide side laps spaced maximum 114-inch o.c. Laps sealed with minimum 1.5-inch heat weld.
COVERBOARD (OPTIONAL) ⇒	Min. 0.5-inch Georgia-Pacific Gypsum LLC "DensDeck Prime® Roofboard" or United States Gypsum "SECUROCK® Gypsum-Fiber Roof Board" or 7/16-inch National Gypsum "DEXcell Cement Roof Board"	Coverboard (if installed) or top layer insulation mechanically attached using "Duro-Last #14 HD Fasteners" with "Duro-Last 3-in. Metal Plates" at 1 per 5.33 ft ² (6 parts per 4x8 ft board)
INSULATION ⇒	One or more layers, "DURO-GUARD ISO II-A", "DURO-GUARD ISO II-G", "DURO-GUARD ISO II-H", "DURO-GUARD ISO III-A" and/or "DURO-GUARD ISO III-H"; top layer min. 1.5-inch thick	
VAPOUR BARRIER ⇒	Duro-Blue	Loose-laid with taped joints
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 yielding the fastener withdrawal resistance noted below.	
FASTENER POINT-LOAD ⇒	Insulation Fasteners: 341 lbf (1517 N) Membrane Fasteners: 304 lbf (1352 N)	

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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:
2023-03-07	DRAFT issued	For client review	RN

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