

**Nemo|etc.**353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER

EVALUATE

TEST


CONSULT

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

| | | | |
|----------------|-----------------|--------------------|------------|
| CLIENT: | DURO-LAST, INC. | TEST DATE: | 2019-06-05 |
| DOCUMENT NO. | DL-MARS-14 | PUBLICATION DATE: | 2022-07-12 |
| TEST PANEL NO. | DL-D2 | REVISION NO. | 3 |
| SYSTEM TYPE: | C-2 | REEVALUATION DATE: | 2025-07-12 |

MECHANICALLY ATTACHED ROOFING SYSTEM (MARS) SUMMARY

| PERFORMANCE⇒ | PASSING PRESSURE | WIND UPLIFT RESISTANCE (with SF of 1.5) |
|--------------|-------------------|--|
| | 150 psf (7.2 kPa) | 100 psf (4.8 kPa) |

| COMPONENT | ALLOWABLE PRODUCTS | BY |
|------------------------|---|--|
| MEMBRANE⇒ | Duro-Last membrane (min. 40-mil), Duro-Last X membrane (min. 80-mil), Duro-Last EV membrane (min. 50 mil) or Duro-Tuff membrane (min. 50-mil) | Duro-Last, Inc. |
| ATTACHMENT: | induction welded using induction welding tool in accordance with the manufacturer's published instructions | |
| INSULATION, TOP LAYER⇒ | Min. 1-inch thick thick Duro-Guard ISO II-H, Duro-Guard ISO II-G, Duro-Guard ISO II-A, Duro-Guard ISO III-H or Duro-Guard ISO III-A, | Duro-Last, Inc. |
| | Min. 0.5-inch DensDeck Prime, | G-P Gypsum |
| | Min. 0.5-inch SECUROCK Gypsum Fiber Roof Board or | USG Corporation |
| | Min. 7/16-inch DEXcell Cement Roof Board | National Gypsum |
| ATTACHMENT: | Mechanically attached; 12 x 24-inch staggered grid pattern (~1 per 2 ft2) |  |
| | Duro-Last #15 Extra Heavy Duty Drill Point Fastener with Duro-Bond ISO WELD 1302-1 plates, Duro-Bond Plate 1302 or Duro-Bond PVC IW Plates | Duro-Last, Inc. |
| | Dekfast™ #15 Fasteners and isoweld® Plate – PVC | SFS intec |
| | OMG XHD screw with RHINO BOND Insulation Plate (PVC) | OMG, Inc. |
| | Trufast #15 EHD with Trufast PVC IW Plate | Altenloh, Brinck & Co., U.S., Inc. |

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

| | | | |
|----------------|-----------------|---------------------|------------|
| CLIENT: | DURO-LAST, INC. | PUBLICATION DATE: | 2022-07-12 |
| DOCUMENT NO. | DL-MARS-14 | REVISION NO. | 3 |
| TEST PANEL NO. | DL-D1 | RE-EVALUATION DATE: | 2025-07-12 |

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| COMPONENT | ALLOWABLE PRODUCTS | BY |
|-------------------------|---|------------------------|
| INSULATION, BASE LAYER⇒ | One or more layer(s), min. 1-inch thick: | |
| | Duro-Guard ISO II-H, Duro-Guard ISO II-G, Duro-Guard ISO II-A, Duro-Guard ISO III-H or Duro-Guard ISO III-A | Duro-Last, Inc. |
| | Terrafoam® EPS Rigid Insulation | Beaver Plastics, Ltd. |
| | R-TECH® | Insulfoam, LLC |
| | PolyPro | Perma R Products, Inc. |
| | PlastiSpan | Plasti-Fab, Ltd. |
| ATTACHMENT: | Loose-laid | |
| VAPOUR BARRIER⇒ | (Optional) Duro-Blue | Duro-Last, Inc. |
| ATTACHMENT: | loose-laid with taped joints | |
| THERMAL BARRIER⇒ | (Optional) Thermal barrier of any approved 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⇒ | 300 lbf (1334 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 | www.rcabc.org |

REPORT HISTORY

| DATE | EVENT | NOTES | AUTHORIZED BY: |
|------------|-----------------|---|----------------|
| 2021-01-11 | FINAL | None | RN |
| 2021-04-22 | REVISION 1 | Additional base insulation options; add Duro-Last X | RN |
| 2021-09-15 | REVISION 2 | Additional top layer insulation options | RN |
| 2022-07-12 | RE-EVALUATION 3 | None | RN |

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END OF REPORT