



NEMO|etc.

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ENGINEER

TEST

CONSULT

| ROOF SYSTEM ASSESSMENT REPORT DYNAMIC UPLIFT RESISTANCE PER CSA A123.21 | | | |
|--|------------------------------------|--------------------|------------|
| CUSTOMER: | Seaman Corporation | TEST DATES: | 2020-02-12 |
| DOCUMENT NO. | SMN-AARS-5 | PUBLICATION DATE: | 2026-03-11 |
| TEST PANEL NO. | SMN-D12 | REVISION NO. | 5 |
| NEMO TYPE: | A-3 | REEVALUATION DATE: | 2029-03-11 |

ADHESIVE APPLIED ROOFING SYSTEM (AARS) SUMMARY

| ROOFING SYSTEM SUMMARY: | |
|-------------------------|--|
| NEMO Type: | A-3; Bonded Thermal Barrier, Bonded Vapour Barrier, Bonded Insulation; Bonded Roof Cover |
| Membrane: | KEE or KEE/PVC co-polymer single ply, adhesive-applied |
| Coverboard: | (Optional) Gypsum-based board, adhesive-applied |
| Insulation, Top: | Polyisocyanurate foam board, adhesive-applied |
| Insulation, Base: | (Optional) Polyisocyanurate or polystyrene foam board, adhesive-applied |
| Vapour Barrier: | Proprietary, woven polyethylene film surfaced, SBS modified bitumen, self-adhering or sand-surfaced, SBS modified bitumen, torch-applied |
| Primer: | Primer specifically for use with selected vapour barrier. |
| Thermal Barrier: | Cement-based board, adhesive-applied |
| Deck: | Structural concrete |

| DYNAMIC UPLIFT RESISTANCE PER CSA A123.21: | | | | | |
|--|-----|---|-----|--|-----|
| Sustained Test Value | | Design Value CSA A123.21:20 (Test Value x 0.65) | | Design Value CSA A123.21:14 (Test Value ÷ 1.5) | |
| kPa | psf | kPa | psf | kPa | psf |
| -3.6 | -75 | -2.3 | -49 | -2.4 | -50 |

PRODUCTS / APPLICATION:

| | | | | | |
|---|------------------------------|---|-----------------------------|---|--|
| Membrane: | Description: | Membrane composed of polyester reinforcement coated with KEE or KEE/PVC co-polymer compound | | | |
| | Application: | Adhesive-applied | | | |
| | Eligible Products: | Membrane | Adhesive | Rate | |
| | | FiberTite, FiberTite-SM, FiberTite-XT or FiberTite Xtreme | FTR-190e | contact application, 0.5 gal./sq. per surface | |
| | | | Alpha-Tite Bonding Adhesive | contact application, 0.83 to 1.0 gal./sq. per surface | |
| | | FiberTite FB, FiberTite-SM FB, FiberTite-XT FB or FiberTite XTreme FB | FTR-290 | wet-lay, 1 gal./square | |
| | | | FTR-390* | wet-lay, 1 gal./square | |
| *FTR-390 is not for use with DensDeck Prime or SECUROCK Gypsum-Fiber Roof Board | | | | | |
| APOC Polyset Commercial Roof Adhesive | wet-lay, spatter application | | | | |

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| PRODUCTS / APPLICATION: | | | | |
|---------------------------------|--|---|--------------------------|--|
| Coverboard (Optional): | Description: | Gypsum-based board | | |
| | Application: | Adhesive-applied | | |
| | Eligible Products: | By | Product | Thickness Min. 6.4-mm (0.25-inch) |
| | | Georgia-Pacific Gypsum | DensDeck Prime | |
| National Gypsum | | DEXcell FA Glass Mat Roof Board | | |
| USG | SECUROCK Gypsum-Fiber Roof Board | | | |
| Coverboard Adhesive (Optional): | Description: | Polyurethane based insulation adhesive | | |
| | Application: | Continuous ribbons, max. 305-mm (12-inch) on-center | | |
| | Eligible Products: | By | Product | |
| | | Seaman Corp. | FTR-601 or FTR-601 PG | |
| Lexusco | | Insultac II Pump Grade Insulation Adhesive | | |
| HB Fuller Company | Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive | | | |
| Insulation, Top: | Description: | Polyisocyanurate foam board | | |
| | Application: | Adhesive-applied | | |
| | Eligible Products: | By | Product | Dimensions Max. 1.2 x 1.2-m (4 x 4 ft) x min. 38-mm (1.5-inch) thick |
| | | Seaman Corp. | FTR-Value or FTR-Value H | |
| | | Atlas Roofing | ACFoam II | |
| | | Hunter Panels | H-Shield | |
| IKO | | IKOTherm | | |
| Lexusco | ISOLEX A | | | |
| Insulation, Base (Optional): | Description: | Polyisocyanurate or polystyrene foam board | | |
| | Application: | One or more layer(s), adhesive-applied | | |
| | Eligible Products: | By | Product | Dimensions Max. 1.2 x 1.2-m (4 x 4 ft) x min. 38-mm (1.5-inch) thick |
| | | Seaman Corp. | FTR-Value or FTR-Value H | |
| | | Atlas Roofing | ACFoam II | |
| | | Hunter Panels | H-Shield | |
| | | IKO | IKOTherm | |
| | | Lexusco | ISOLEX A | |
| Atlas Molded Plastics | | ThermalStar TS | | |
| Fransyl | IZOSOL or IZOLON EPS | | | |
| Insulation Adhesive: | Description: | Polyurethane based insulation adhesive | | |
| | Application: | Continuous ribbons, max. 305-mm (12-inch) on-center | | |
| | Eligible Products: | By | Product | |
| | | Seaman Corp. | FTR-601 or FTR-601 PG | |
| Lexusco | | Insultac II Pump Grade Insulation Adhesive | | |
| HB Fuller Company | Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive | | | |

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| PRODUCTS / APPLICATION: | | | | | |
|---------------------------|--|--|--|--|--|
| Vapour Barrier: | OPTION NO.: | Option 1 | | Option 2 | |
| | Description: | Proprietary woven polyethylene film surfaced, SBS modified bitumen | | Sand-surfaced, SBS modified bitumen | |
| | Application: | Self-adhering | | Torch-applied | |
| | Eligible Products: | VaporTite | | FiberTite-SBS TG Base, FiberTite-SBS 190 TG Base, IKO "Torchflex TF-95-SF" or "Torchflex-TP-180-SF Base" | |
| Primer: | Description: | Polymer-based primer | | Asphaltic primer | |
| | Application: | ~250 ft ² /gallon | | 0.5 gal/square | |
| | Eligible Products: | SOPREMA "ELASTOCOL Stick Zero" | | ASTM D41 or Lexcor "Lexprime TG" | |
| Thermal Barrier: | Description: | Cement-based board | | | |
| | Application: | Adhesive-applied | | | |
| | Eligible Products: | By | Product | Dimensions | |
| Thermal Barrier Adhesive: | Description: | Polyurethane based insulation adhesive | | | |
| | Application: | Continuous ribbons, max. 152-mm (6-inch) on-center, to top flanges of steel deck | | | |
| | Eligible Products: | By | Product | | |
| | | Seaman Corp. | FTR-601 or FTR-601 PG | | |
| | | Lexsuco | Insultac II Pump Grade Insulation Adhesive | | |
| HB Fuller Company | Millennium One Step Foamable Adhesive or Millennium PG-1 Pump Grade Adhesive | | | | |
| Deck: | As-Tested: | Steel, Type B profile with 6-inch module | | | |

| NOTES: | |
|--------------------------------|--|
| Test Value and Design Value: | The "Test Value" noted herein reflects the ultimate passing test pressure recorded during testing. The "Design Value" herein reflects the "Test Value" multiplied by a resistance factor of 0.65, or divided by a safety factor of 1.5. The "Design Value" should meet or exceed the design pressure requirements of the project, as determined in accordance with the current National Building Code of Canada (NBC) requirements. |
| Equivalence of Other Products: | This report applies only to the products listed as "Eligible Products" herein. |
| Optional Components: | Components listed herein as "optional" may be removed from the roof system design with no adverse effect on system dynamic wind uplift performance. |
| As-Tested Deck: | Testing utilized 22 ga., Type B (6-inch deck module) steel deck meeting ASTM A653, A792, A1008 or CSSBI 10M standard and having a yield strength of 275 MPa (40-ksi). Alternate deck displaying equivalent strength may be specified at the discretion of the Designer of Record to the satisfaction of the Authority Having Jurisdiction. |
| Fastener Point-Loads: | N/A |

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RSAR SCOPE

Roof System Assessment Reports (RSAR) constitute a summary of allowable products and interfaces used in low-slope roof assemblies based testing in accordance with CSA A123.21 at our ISO/IEC 17025 accredited laboratory.

While RSAR's are reviewed and renewed each 3-years based primarily on report holder declaration, these are not Certification listings, and are not intended to state or imply ongoing quality control / surveillance activities by NEMO at the report holder's facilities.

NEMO ETC, LLC is not, in any way, the Designer of Record for any project on which these RSAR's, or previous versions thereof, is/was used for permitting or design guidance. RSAR's are not to be construed as representing any attributes not specifically listed, nor to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by NEMO ETC, LLC, express or implied, as to any finding or other matter in these RSAR's, or as to any product covered by the RSAR's.

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: |
|------------|-------|--|----------------|
| 2020-08-24 | FINAL | After client review | RN |
| 2020-12-29 | REV1 | Add Insultac II Insulation Adhesive and Insultac II Pump Grade Insulation Adhesive Add ISOLEX A; Correct Option #2 membrane designations. | RN |
| 2021-10-21 | REV2 | Add AlphaTite Bonding Adhesive; add IZOLON EPS | RN |
| 2023-02-24 | REV3 | Update trade names; add IKOTerm | RN |
| 2024-12-23 | REV4 | Add coverboard options; Add <u>Torchflex vapor barrier options</u> | RN |
| 2026-03-11 | REV4 | Re-Validation, reformat | RN |

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END OF REPORT