



NEMO | etc.

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ENGINEER

EVALUATE

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

The Garland Company, Inc.

3800 East 91 Street
Cleveland, OH 44105
(216) 430-3619

PEER-GRL-005.A.R1

FL40568-R1 (NON-HVHZ)

Date of Issuance: 12/20/2021

Revision 1: 12/20/2023

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been evaluated for compliance with the **8th Edition (2023) Florida Building Code** sections noted herein.

DESCRIPTION: R-Mer® Wall Pan (NON-HVHZ)

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance, or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "NEMO P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be done in its entirety.

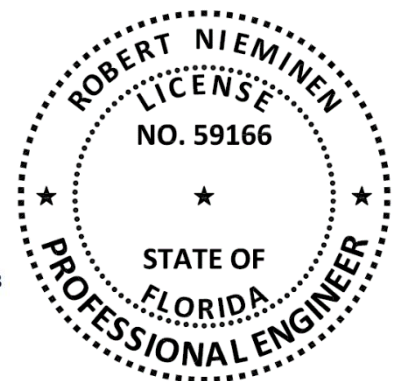
INSPECTION: Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 3, plus a 1-page Appendix.

Prepared by:

Digitally signed by
Robert Nieminen
Date: 2023.12.20
'09:40:41 -05'00

This item has been digitally signed and sealed by
Robert Nieminen, P.E.
Printed copies of this document are not
considered signed and sealed, and the signature
must be verified on any electronic copies.
Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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PANEL WALLS - SIDING EVALUATION:

1. SCOPE:

Product Category: Panel Walls

Sub-Category: Siding

Product Approval Method: Method 1, Option D: Codified Material, Evaluation by Engineer

Compliance Statement: R-Mer® Wall-Pan, as produced by **The Garland Company**, have demonstrated compliance with the following sections of the **8th Edition (2023) Florida Building Code** through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

SECTION	PROPERTY	STANDARD
Table 1507.4.3(1)	Material standard	ASTM A653
Table 1507.4.3(1)	Material standard	ASTM B209
1404.5.1	Wind resistance	AAMA 1402
1504.3.2	Wind resistance	ASTM E1592

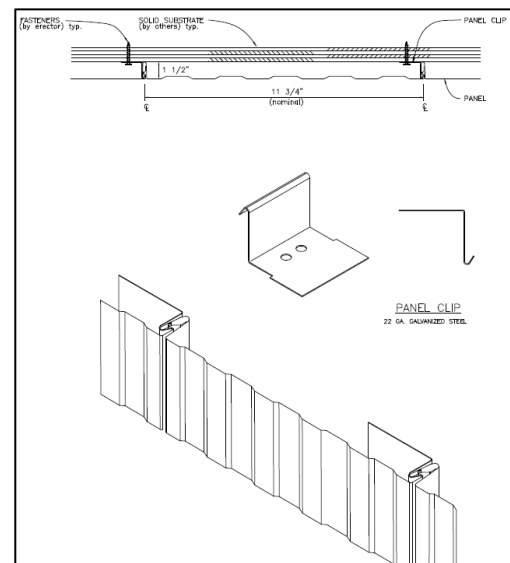
3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
Garland	ASTM A653	Mill Certificate	01/03/2020
Garland	ASTM B209	Mill Certificate	03/25/2021
Intertek (TST3892)	ASTM E1592	J8080.01-550-44	08/19/2019
Intertek (TST3892)	ASTM E1592	J8080.02-550-44 R0	08/19/2019
Intertek (TST3892)	ASTM E1592	J8080.03-550-44	08/19/2019
Intertek (TST3892)	ASTM E1592	J8080.04-550-44	08/19/2019
Intertek (TST3892)	ASTM E1592	J8080.05-550-44	08/19/2019
Intertek (TST3892)	ASTM E1592	J4852.04-550-44	12/14/2019
UL, LLC. (QUA 9625)	Quality Control	Service Confirmation	12/16/2021
UL, LLC. (QUA 9625)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

R-Mer® Wall-Pan: Non-structural wall panel system consisting of factory-formed, interlocking metal panels. The system is mechanically attached using 22 ga. galvanized or stainless steel clips and concealed fasteners to Approved substrates, as outlined in the [Limitations of Use](#) herein. This PEER includes the R-Mer® Wall-Pan Mesa Profile.

MATERIAL	STANDARD	NOMINAL THICKNESS	NOMINAL YIELD STRENGTH (KSI)
Aluminum Alloy	ASTM B209, 3003-H14	0.040-inch	22
Galvanized Steel	ASTM A653, G90	22 or 24 gauge	46



5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.
- 5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 This PEER does not address fire-resistance-rating performance of the completed wall assemblies.
- 5.4 Wind Resistance:
 - 5.4.1 Limitations relating to design wind pressure resistance are outlined in Appendix 1.
 - 5.4.2 "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to **FBC 1609** for determination of project-specific design wind pressures. The MDP for the selected installation shall meet or exceed the design wind pressure requirement for the project for each pressure zone.
 - 5.4.3 R-Mer® Wall-Pan are not intended for racking or shear resistance.
- 5.5 For existing substrates, the Authority Having Jurisdiction may require fasteners be tested in the existing substrate for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system.
- 5.6 All products in the wall assembly shall have QA audit in accordance with the **F.A.C. Rule 61G20-3**.

6. INSTALLATION:

- 6.1 **R-Mer® Wall-Pan** shall be installed in accordance with **The Garland Company** published installation instructions, subject to the Limitations / Conditions of Use noted herein.
- 6.2 Refer to FBC 1403.2 for requirements concerning a water-resistive barrier.
- 6.3 Minimum system attachment requirements set forth in Appendix 1 shall not be exceeded.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

8. MANUFACTURING PLANTS:

Norcross, GA

9. QUALITY ASSURANCE ENTITY:

[UL, LLC – QUA9625](#): (360) 817-5512; bsai.inspections@ul.com

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The following notes apply to the systems outlined herein:

1. The evaluation herein pertains to wall-cladding components. Framing and sheathing shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
2. "MDP" = Maximum Design Pressure is the result of testing for wind load resistance based on allowable wind loads. Refer to FBC 1609 for determination of design wind loads.

TABLE 1: SYSTEM DESCRIPTION and ALLOWABLE DESIGN PRESSURES
R-Mer® Wall-Pan Systems

System No.	Support Type (See Note 1)	R-Mer Wall Pan			Panel Attachment			MDP (psf)	Impact Resistant
		Material	Profile	Max. Width	Clip Type	Fastener	Max. Spacing		
ALUMINUM PANELS:									
1.	Min. 12 ga., 50-ksi steel purlins	Min. 0.040-inch aluminum	Mesa	11.75-inch	22 ga., 40-ksi standard panel clip	Two (2) #12-14 x 1" HWH DP3 fasteners per clip	36-inch o.c.	-56.7	NO
2.	Min. 12 ga., 50-ksi steel purlins	Min. 0.040-inch aluminum	Mesa	11.75-inch	22 ga., 40-ksi standard panel clip	Two (2) #12-14 x 1" HWH DP3 fasteners per clip	12-inch o.c.	-93.3	NO
STEEL PANELS:									
3.	Min. 12 ga., 50-ksi steel purlins	Min. 24 ga. steel	Mesa	11.75-inch	22 ga., 40-ksi standard panel clip	Two (2) #12-14 x 1" HWH DP3 fasteners per clip	36-inch o.c.	-50.0	NO
4.	Min. 12 ga., 50-ksi steel purlins	Min. 22 ga. steel	Mesa	11.75-inch	22 ga., 40-ksi standard panel clip	Two (2) #12-14 x 1" HWH DP3 fasteners per clip	36-inch o.c.	-66.7	NO
5.	Min. 12 ga., 50-ksi steel purlins	Min. 24 ga. steel	Mesa	11.75-inch	22 ga., 40-ksi standard panel clip	Two (2) #12-14 x 1" HWH DP3 fasteners per clip	12-inch o.c.	-106.7	NO
6.	Min. 12 ga., 50-ksi steel purlins	Min. 22 ga. steel	Mesa	11.75-inch	22 ga., 40-ksi standard panel clip	Two (2) #12-14 x 1" HWH DP3 fasteners per clip	12-inch o.c.	-126.7	NO