

EVALUATION REPORT

FLORIDA PRODUCT APPROVAL – FL#48307.1

“X-12” WALL PANEL

REPORT

T8634.01-122-34-R1

MANUFACTURER:

MORIN BY KINGSPAN
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BRISTOL, CT 06010

PREPARED BY:

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ORIGINAL ISSUE DATE

05/22/26

LAST REVISED DATE

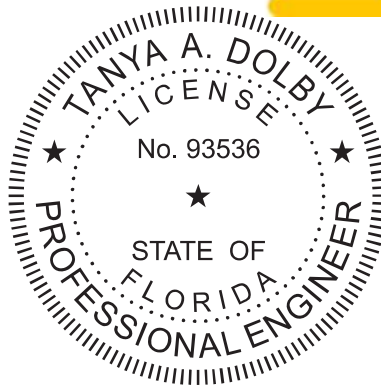
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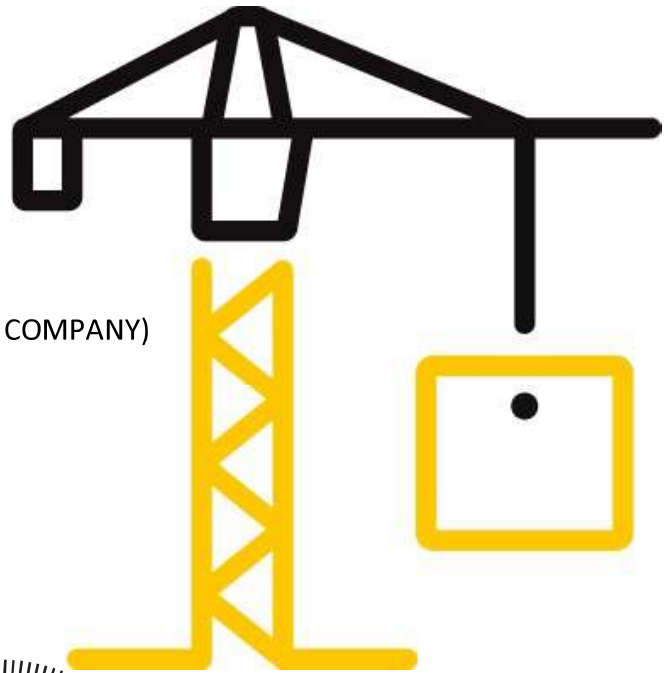
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1 PRODUCT OVERVIEW

Product Name:	X-12
Product Category:	Panel Walls
Product Subcategory:	Siding
Product Approval Method:	Method 1, Option D
Compliance Method:	State Product Approval Rule 61G20-3.005 (2)(b)
Product Description:	X-12 corrugated steel wall panels, installed in vertical or horizontal orientation, 7/8" rib height, 12" coverage
Connection Description:	X-12 wall panels are attached with concealed panel clips and two (2) #12-14-1" self-drilling screws per clip to plywood substrate.
Usage:	Exterior wall cladding
Evaluated:	Wind Resistance – TAS 202 Uniform Static Air Pressure Air Infiltration Water Penetration Large Missile Impact – TAS 201 Cyclic Wind Pressure - TAS 203
Performance:	Maximum +/- 75 psf Design Pressure
Limits of Use:	This evaluation is limited to the wind resistance, large missile impact resistance, and cyclic pressure for the system as described herein. Design of the Main Wind Force Resisting System and any other performance criteria of the X-12 wall panel is not included.

2 PURPOSE OF EVALUATION

This Product Evaluation Report issued by Tanya A. Dolby, P.E. to Morin By Kingspan is based on State Product Approval Rule 61G20-3.005 (2)(b) of the Florida Department of Business and Professional Regulation.

The product is being issued an Evaluation Report as described herein and has been verified for compliance in accordance with the 2026 Florida Building Code, 9th Edition.

This Product Evaluation Report shall be subject to review and revision if building code changes affect the limitations and conditions.

3 EVIDENCE SUBMITTED

- **Test Report**
 - T239-13, dated 08/29/2013, Farabaugh Testing & Engineering (FBC ID# TST 1654), TAS 201-94, TAS 202-94, TAS 203-94

4 EVALUATED PANEL SYSTEM DESCRIPTION

- **Wall Panel**
 - X-12 corrugated steel wall panel
 - 24-gauge minimum thickness
 - 40 ksi minimum yield strength
 - 7/8" rib height
 - 12" maximum coverage
- **Concealed Panel Clip**
 - Integrity Series Clip
 - 18-gauge steel
 - 40 ksi minimum yield strength
 - 2 ½" long
- **Fasteners**
 - #12–14 x 1" long self-drilling screws
 - Two (2) per clip
 - HVHZ approved

5 EVALUATED SUBSTRATE DESCRIPTION

- **2x6 16 gauge metal studs**
 - Spaced 16" on center
 - Minimum 33 ksi yield strength
- **Minimum 15/32" plywood**
 - Connected with #12-14 X 1 ¼" fasteners
 - Spaced 12" on center

6 PERFORMANCE

- **Wind Resistance and Cyclic Wind Pressure**
 - Allowable Design Pressure +/- 75 psf allowable load
 - Positive pressure (outward direction) and negative pressure (inward direction)
 - 1.5 safety factor applied to test loads
 - Clip Spacing – 24" on center
 - Two (2) fasteners per clip
- **Impact Resistance**
 - Large Missile Impact per TAS 201
 - Missile Impact Level D, Zone 4
 - 50 ft/sec velocity

7 TEST STANDARDS

- TAS 201-94, *Impact Test Procedures*
- TAS 202-94, *Criteria for Testing Impact & Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure*
- TAS 203-94, *Criteria for Testing Products Subject To Cyclic Wind Pressure Loading*

8 COMPLIANCE

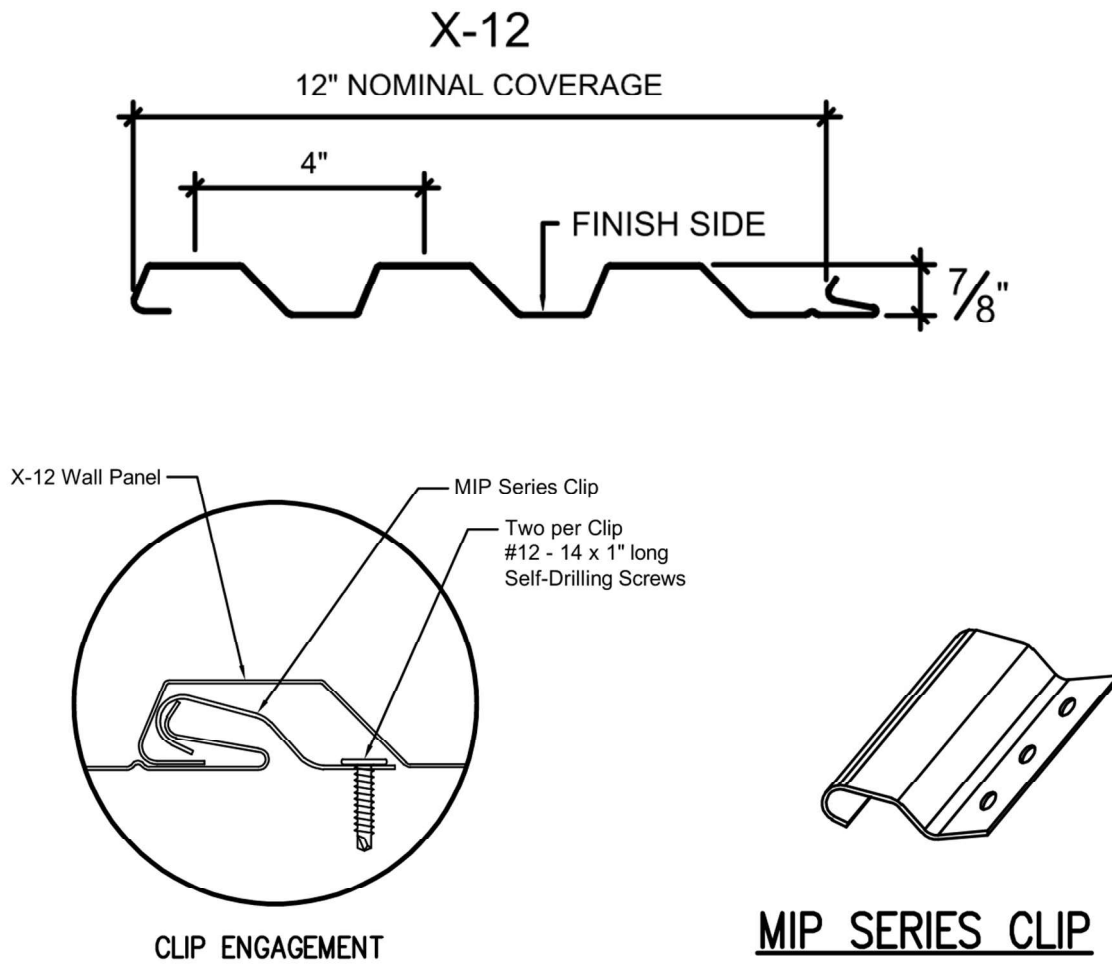
- The product(s) described herein was tested to and demonstrated compliance to the standards referenced above contained in the 2026 Florida Building Code, 9th Edition including HVHZ.

9 EXCLUSIONS AND NOTES

- Design of the Main Wind Force Resisting System is outside the scope of this evaluation.
- Verifying the soundness and the structure to which the X-12 wall panel is to be attached is by others.
- Other performance criteria of the X-12 wall panel is outside the scope of this evaluation.
- Any modification of the product evaluated is outside the scope of this evaluation and will be the responsibility of others.
- This report is not a design certification of code compliance for any individual site specific or permit design.
- Anchors shall be installed following all recommendations and specifications of the anchor manufacturer.
- Walls shall have a minimum water-resistant barrier equivalent to one layer of #15 asphalt felt complying with ASTM D 226, Type I in accordance with FBC, Section 1404.2.
- All metal components and fasteners shall be corrosion resistant in accordance with applicable sections of Florida Building Code.
- Project specific design wind loads shall be determined as per section 1609 of the Florida Building Code and ASCE 7.
- The X-12 wall panel shown on this product evaluation document has been verified for compliance in accordance with the 2026 Florida Building Code, 9th Edition.
- To meet Chapter 17, Section 1711 Corrosion Resistance – Saltwater Environments, projects located within 300 feet from coastal shoreline or between 300 feet to 3000 feet from coastal shoreline must supply stainless steel or galvanized Fasteners as well as stainless steel or galvanized Clips per Table 1711.1 Corrosion Resistance of Fasteners and Connectors requirements. Strength of the Fasteners and Clips must be equal to or stronger than those tested.

10 DRAWINGS

X-12 Corrugated Steel Wall Panel Installation



ALLOWABLE LOAD TABLE	
Component	Positive/Negative Allowable Load
Design Pressure	+/- 75 psf Design Pressure
Clip Spacing	24" O.C. maximum
Clip Fasteners	2 per clip

Note: Allowable Load Table reflects the maximum design load (DP) tested. Overload of 1.5 x DP was tested to +/- 112.5 psf.

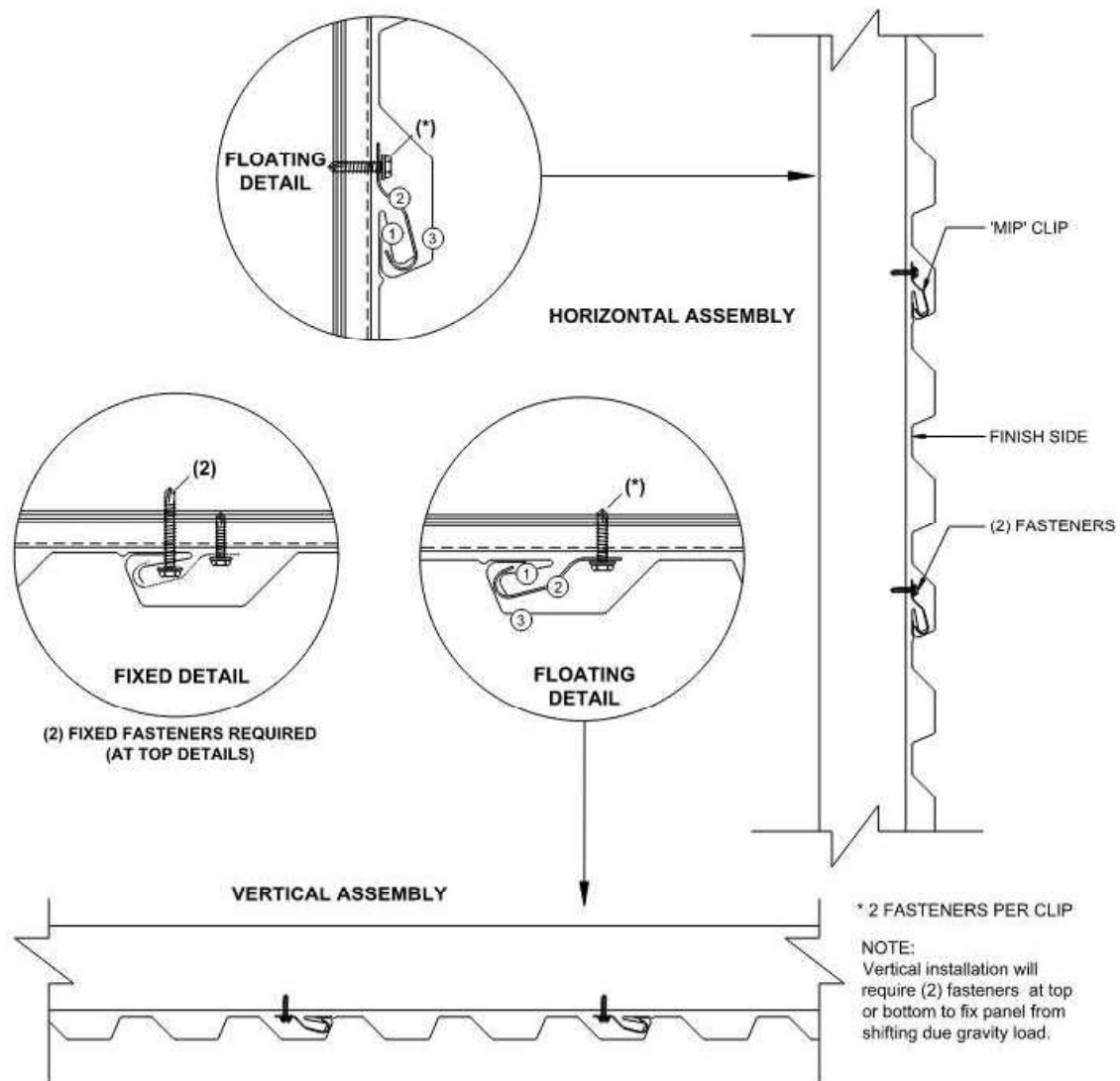
Morin Integrity Series



Panel Assembly

Horizontal Assemblies must be installed from bottom to top (base to roofline). This is crucial because the Integrity panel's interlocking system is not reversible. The clip holds the attaching leg and is secured first, then the next panel hooked over the clip with the interlocking leg slid (2) into the pocket. (1)

Vertical Assemblies are typically installed from left to right, however depending on construction requirements, can be installed in either direction. The clip holds the attaching leg and is secured first, then the next panel hooked over the clip into the pocket.



*NOTE: The numbers 1 2 & 3 represent the order of assembly.

Product Evaluation Report prepared by Tanya A. Dolby, P.E. (Florida License No. 93536), Architectural Testing, Inc. (an Intertek Company).