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DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION
Section: 07 42 13 Metal Wall Panels

REPORT HOLDER:
Innovative Metals Company, Inc.
2070 Steel Drive
Tucker, GA 30084-5832
www.imetco.com

REPORT SUBJECT:
Latitude Exterior Wall Panel
Element Exterior Wall Panel

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2024, 2021, 2018 *International Building Code*® (IBC)
- 2024, 2021, 2018 *International Residential Code*® (IRC)

NOTE: This report references the most recent edition of the codes cited. Section numbers in earlier code editions may differ.

1.2 The Latitude and Element exterior wall panels have been evaluated for the following properties:

- Physical properties
- Wind resistance

1.3 The Latitude and Element exterior wall panels have been evaluated for the following uses:

- Exterior wall cladding in Types I, II, III, IV, and V construction

2.0 STATEMENT OF COMPLIANCE

The Latitude and Element exterior wall panels comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.

2.1 2024 IBC and IRC Evaluation Reports: The Intertek CCRR is an Evaluation Report for approval of an alternate material, design, or method of construction in accordance with Section 104.2.3.6.1 of the 2024 IBC and Section R104.2.2.6.1 of the 2024 IRC.

3.0 DESCRIPTION

3.1 Latitude Wall Panels: The Latitude exterior wall panels are formed from steel conforming to ASTM A653 G90 Grade 40 or ASTM A792 AZ 55 Grade 40, or aluminum alloy conforming to 3003-H14 or 3005-H14. The steel and aluminum panels may be painted with a proprietary resin fluorocarbon coating system. The panels are provided in the dimensions described in Table 1 and are illustrated in Figure 1.

3.2 Element Wall Panels: The Element exterior wall panels are of the same materials as the Latitude panels, the difference being that the Element panels are flat panels with folded ends. See Table 1 and Figure 2.

3.3 Panel Clips: The panel clips are illustrated in Figures 1 and 2. The clips are formed from No. 16 gauge steel conforming to ASTM A653 G90 or No. 16 gauge stainless steel conforming to Type 304, 2B finish.

3.4 Fasteners: Panel clips are attached to the substrate using #12-14 x 3/4-inch self-drilling, pancake head screws.

4.0 PERFORMANCE CHARACTERISTICS

4.1 Wind Resistance: When installed as described in this report the panels have an allowable wind resistance as denoted in Table 1.

5.0 INSTALLATION

5.1 General: The panels must be installed in accordance with the IMETCO published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.



Application: The panels are installed horizontally as shown in Figures 1 and 2. Clips are attached to minimum No. 16 gauge steel framing using two #12-14 x 3/4-inch self-drilling, pancake head screws. Attachment to other substrates must be shown to the satisfaction of the building official that the allowable fastener withdrawal capacity for the selected fastener exceeds the allowable wind resistance for the panel system as noted in Table 1. Alternate fasteners must have a minimum 0.450-inch diameter head.

A water-resistive barrier complying with IBC Section 1403.2 must be installed behind the panels and must be installed as required by that section of the Code.

For use in Types I, II, III, or IV construction on buildings greater than 40 feet above grade, evidence the water-resistive barrier complies with IBC Section 1402.5, Exception 2, or a report of testing in accordance with NFPA 285 and IBC Section 1402.5 for an assembly representative of the final construction, must be submitted to the building official.

6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer's published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 Structural calculations demonstrating that applied loads are less than the allowable loads must be submitted to the local building official for approval.

6.3 The approval of the structural substrate to which the Latitude or Element system is attached is beyond the scope of this report.

6.4 A licensed design professional shall analyze the fasteners for pullout for use atop the specified insulation, sheathing, or framing. The insulation, sheathing, or framing shall be verified by the structural plans examiner.

6.5 Use of the Latitude or Element system as bracing against lateral wind or earthquake forces is outside the scope of this report.

6.6 The panels are manufactured under a quality control program with inspections by Intertek Testing Services NA, Inc.

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with ASTM E330.

7.2 Quality control documentation.

7.3 Intertek Listing Report "IMETCO Latitude and Element Exterior Wall Panels", on the [Intertek Directory of Building Products](#).

8.0 IDENTIFICATION

The Latitude and Element exterior wall panels are identified with the manufacturer's name (Innovative Metals Company, Inc.) and address, the product name, job number and release number, the Intertek Mark as shown below, and the Code Compliance Research Report number (CCRR-0282).



9.0 OTHER CODES

This section is not applicable.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.





TABLE 1 – DESIGN WIND PRESSURE

Panel Description	Panel Attachment		ASD Design Wind Pressures (psf)
	Clip Spacing (in.)	Fastener	
Latitude 22 GA Steel, Max. 16 inches wide	12	#12-14 x 3/4-inch self-drilling, pancake head screws	100
	36	#12-14 x 3/4-inch self-drilling, pancake head screws	50
Latitude 0.040 in. Aluminum, Max. 16 inches wide	12	#12-14 x 3/4-inch self-drilling, pancake head screws	90
	36	#12-14 x 3/4-inch self-drilling, pancake head screws	40
Element 0.050 in. Aluminum, Max. 24 inches wide	24	#12-14 x 3/4-inch self-drilling, pancake head screws	50

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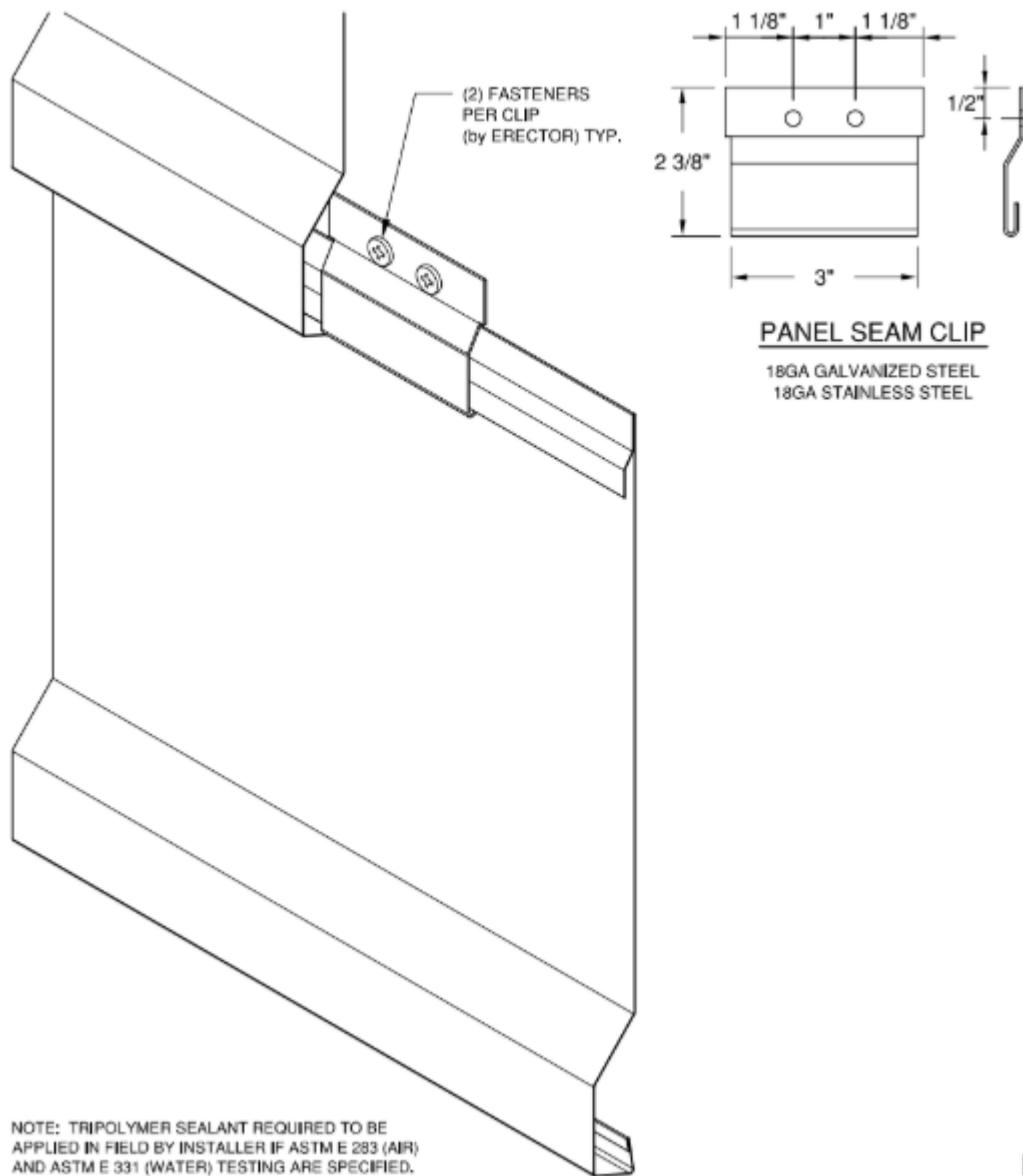


Figure 1 – Latitude Wall Panel and Clip

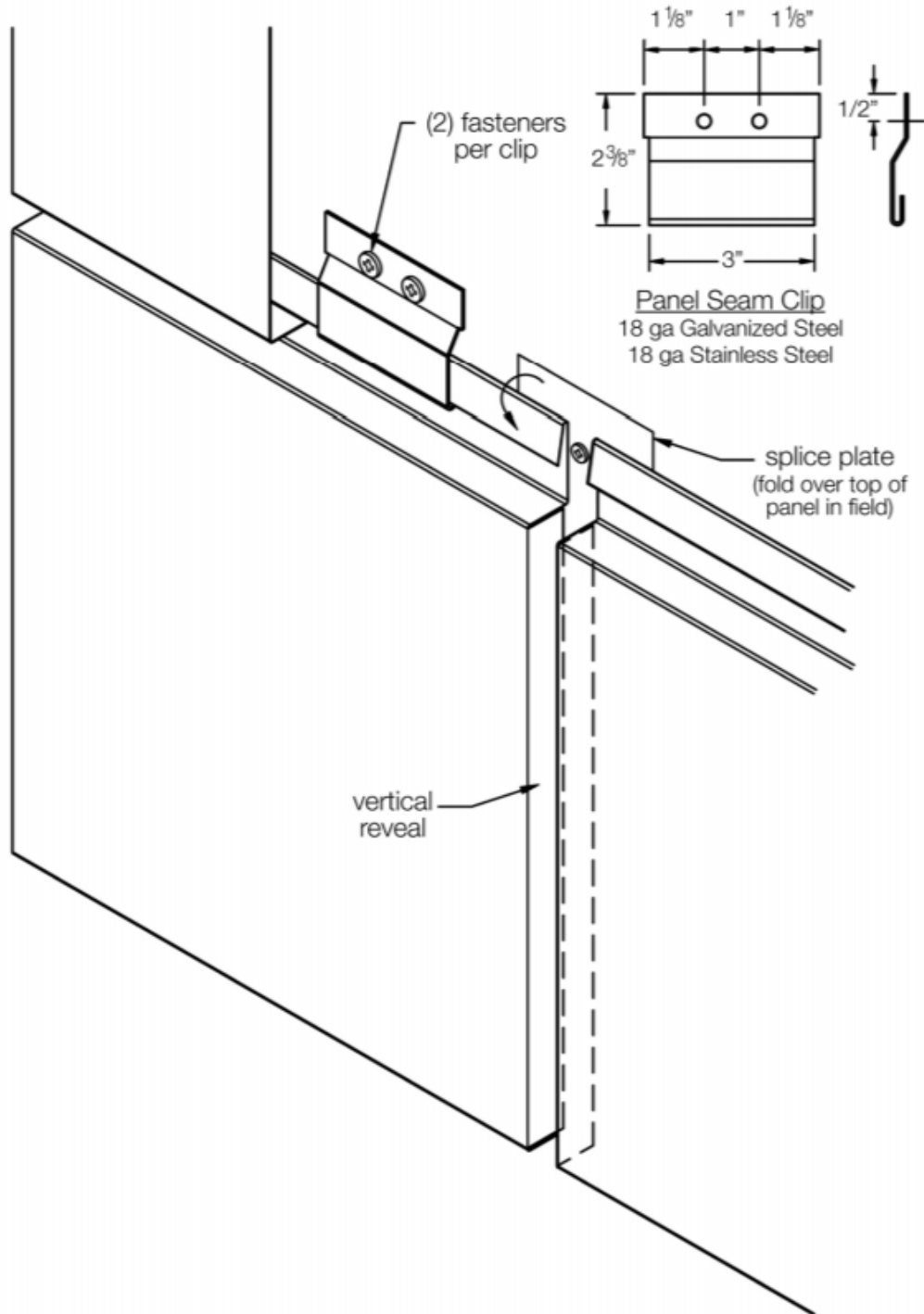


Figure 2 – Element Wall Panel

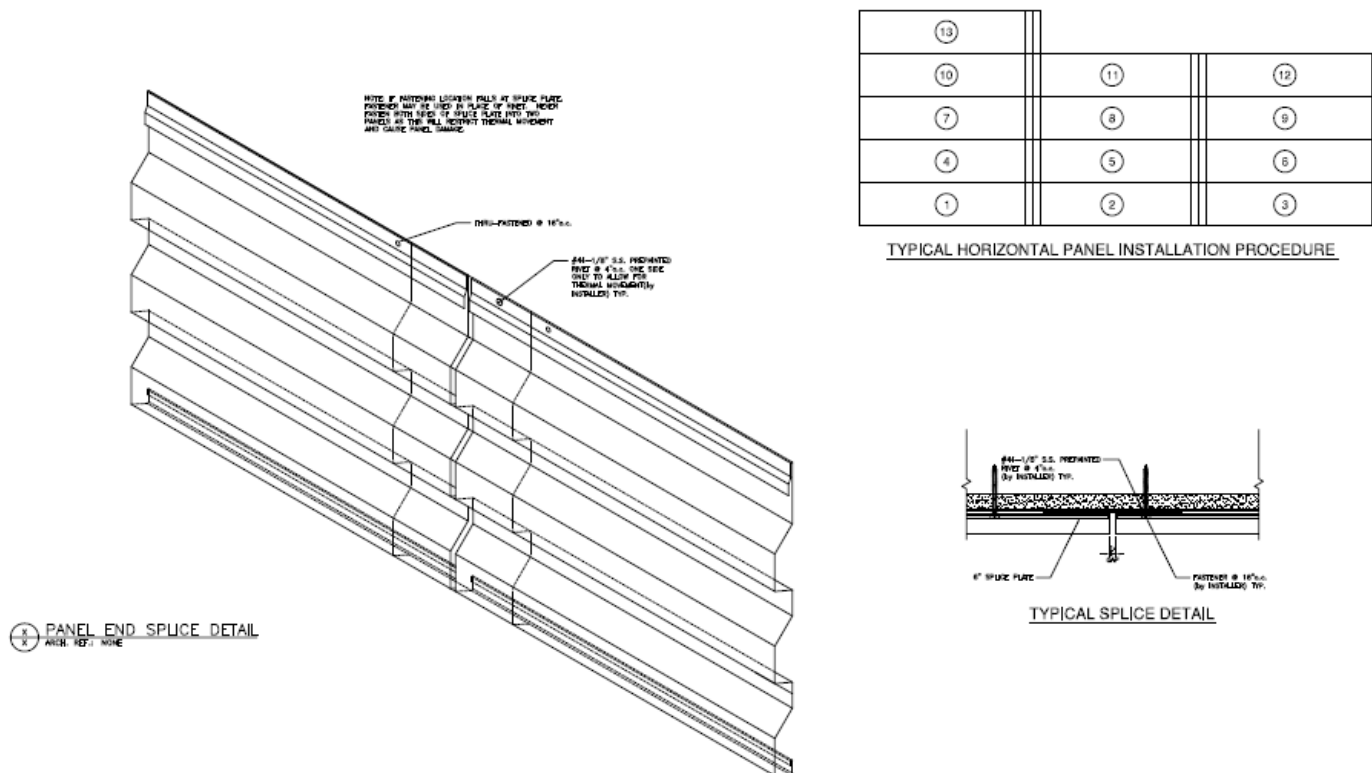


Figure 3 – Typical Latitude Panel Splice Detail