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ICC-ES Listing Report

Reissued May 2025

ESL-1340

This listing is subject to renewal May 2026.

CSI: DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
Section: 06 12 00—Structural Panels

Product Certification System:

The ICC-ES product-certification system includes evaluating reports of tests of standard manufactured product, prepared by accredited testing laboratories and provided by the listee, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the listee's quality system.

Product: INTERTEC PREFABRICATED VACUUM FORMED COMPOSITE STRUCTURAL PANELS AND PREFABRICATED VACUUM FORMED COMPOSITE STRUCTURAL PANELS WITH STRUCTURAL POST

Intertec Prefabricated Vacuum Formed Composite Structural Panels consist of a gel-coated resin and fiberglass coating on a polyisocyanurate core material. Intertec Prefabricated Vacuum Formed Composite Structural Panels with Structural Post consist of a gel-coated resin and fiberglass coating on a polyisocyanurate core material with an embedded structural post.

Listee: INTERTEC INSTRUMENTATION LTD.

Evaluation: Intertec Prefabricated Vacuum Formed Composite Structural Panels and Prefabricated Vacuum Formed Composite Structural Panels with Structural Post were evaluated when tested in accordance with the following standard:

- ASTM E330-14, Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference, ASTM International.

Assembly: Intertec Prefabricated Vacuum Formed Composite Structural Panels and Prefabricated Vacuum Formed Composite Structural Panels with Structural Post are constructed with a pre-formed 2 lb/ft^3 (32 kg/m^3) density polyisocyanurate foam insulation core material covered with $^3/_{16}$-inch-thick (4.8 mm) glass reinforced polymer (FRP) which is vacuum formed to each core face. See Figure 1 for details.

Connections between roof and wall panels and between wall and floor panels must be made as shown in Figure 2. Three $^3/_8$-inch (9.5 mm) diameter beads of Sikaflex® 221 Caulk/Adhesive shall be placed in the interface. The panel flange must be screwed to the wall, roof, or floor using #14-10 x 1$^1/_2$-inch long (38.1 mm) Pan Head Wood Screws spaced 8-inches on center with a ¾-inch (19.1 mm) edge distance and a 4-inch (102 mm) end distance.

Intertec Prefabricated Vacuum Formed Composite Structural Panels with Structural Post consist of Pultex® 1525 Series Fiber Reinforced Polymer Structural 3-inch (76.2 mm) Square Tubes with a ¼-inch (6.4 mm) wall thickness and must be attached to each side of the panel; the maximum panel width is 48 inches (1219 mm). Structural tubes are connected to each side of the panel using $^3/_{16}$-inch (4.8 mm) diameter, stainless steel button head rivet, $^5/_8$-inch to $^3/_4$-inch grip range (15.9 mm to 19.1 mm), spaced 8-inch (203 mm) on center with a $^3/_8$-inch (9.5 mm) edge distance. See Figures 3 and 4 for more details.

Findings: Intertec Prefabricated Vacuum Formed Composite Structural Panels and Prefabricated Vacuum Formed Composite Structural Panels with Structural Post have the test performance results as specified in Table 1 below, based on testing in accordance with Procedure B of ASTM E330.

Table 1: ASTM E330 Test Performance[1]

Description	Wind Direction	Average Maximum Test Pressure (psf)[a]	Test Pressure at L/180 (psf)	Test Pressure at L/240 (psf)	Test Pressure at L/360 (psf)
Intertec Prefabricated Vacuum Formed Composite Structural Panels 4-ft x 10-ft x 3-in. Thick	Positive	74.1	8.6	6.3	4.2
Intertec Prefabricated Vacuum Formed Composite Structural Panels with Structural Post 4-ft x 10-ft x 3-in. Thick	Positive	158[2]	15.4[b]	11.5[b]	7.6[2]
	Negative	194[2]	17.1[b]	12.8[b]	8.5[2]

For SI: 1 psf = 0.048 kPa
[1]Reported value has not been adjusted for safety factors
[2]Reported values are based on a minimum of 48-inch wide panel reinforced on each side by half of a 3-inch x ¼-in. wall Pultex® Fiber Reinforced Polymer square post (See Figure 3).

Identification:

1. Packaging of the Intertec Prefabricated Vacuum Formed Composite Structural Panels and Prefabricated Vacuum Formed Composite Structural Panels with Structural Post carry a label indicating the manufacturer's name (Intertec Instrumentation Ltd.) and address, the product name, ICC-ES listing number (ESL-1340), and when applicable, the ICC-ES listing mark.
2. The report holder's contact information is the following:

   INTERTEC INSTRUMENTATION LTD.
   255 HENRY DRIVE
   SARNIA, ONTARIO N7T 7H5
   CANADA

Installation: The product must be installed in accordance with Intertec Instrumentation Ltd.'s published installation instructions.

Conditions of Listing:

1. The listing report addresses only conformance with the standard noted above.
2. Approval of the product's use is the sole responsibility of the local code official.
3. The listing report applies only to the materials tested and as submitted for review by ICC-ES.
4. The Intertec Prefabricated Vacuum Formed Composite Structural Panels and Prefabricated Vacuum Formed Composite Structural Panels with Structural Post are manufactured under a quality control program with inspections by ICC-ES.

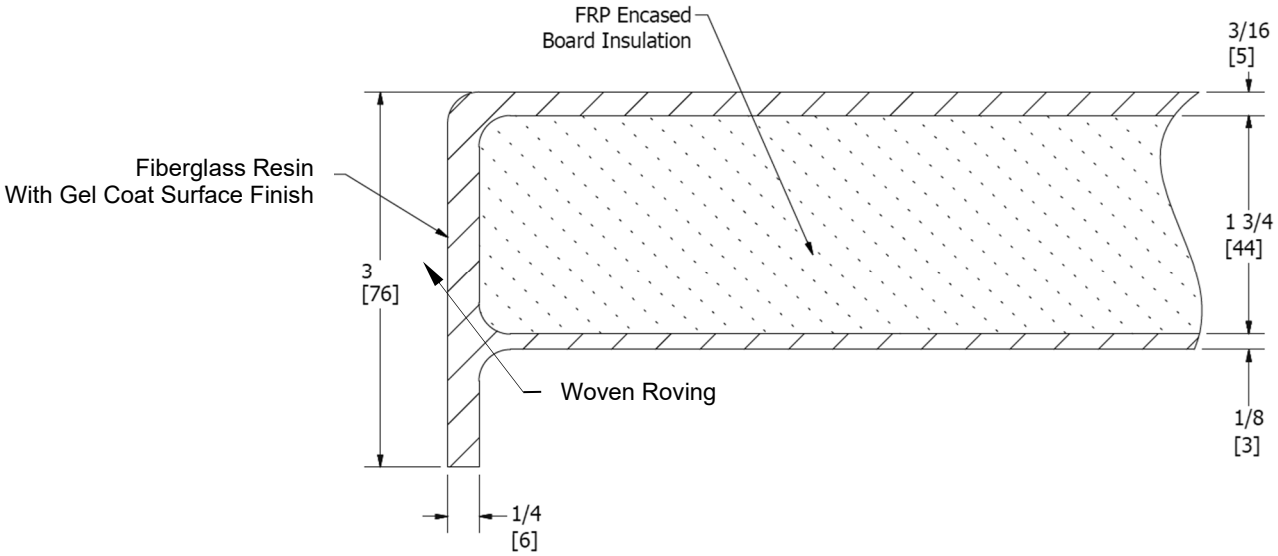

FIGURE 1: PANEL DETAIL

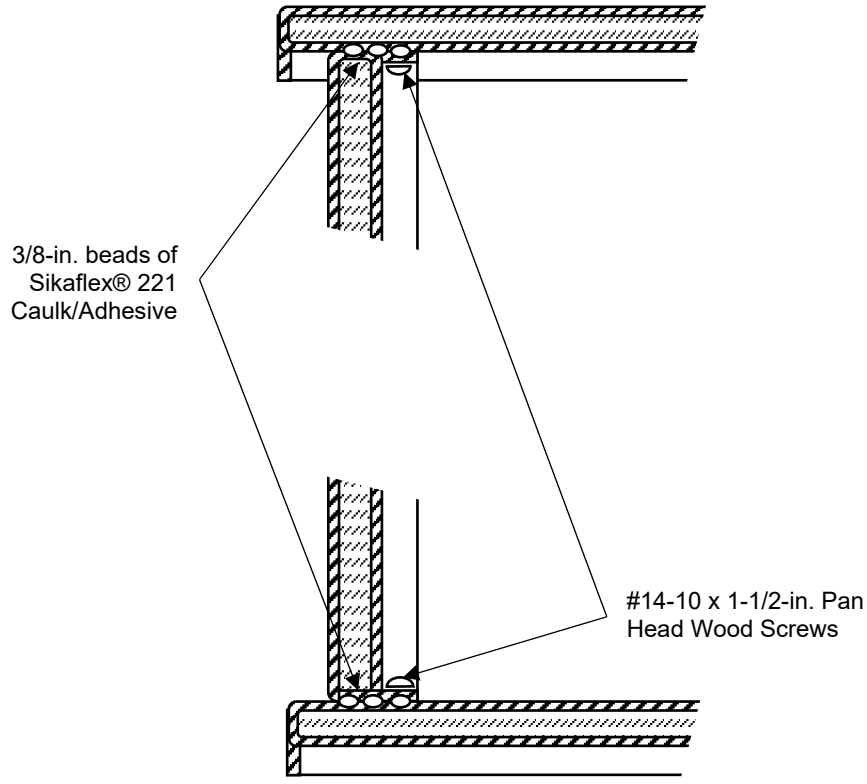

FIGURE 2: PANEL ASSEMBLY

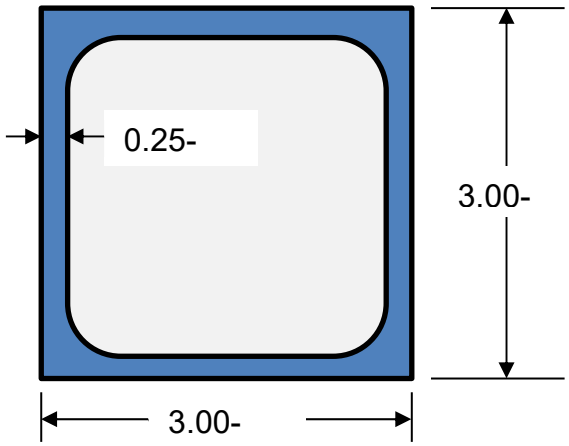

FIGURE 3: 3-inch REINFORCEMENT TUBE

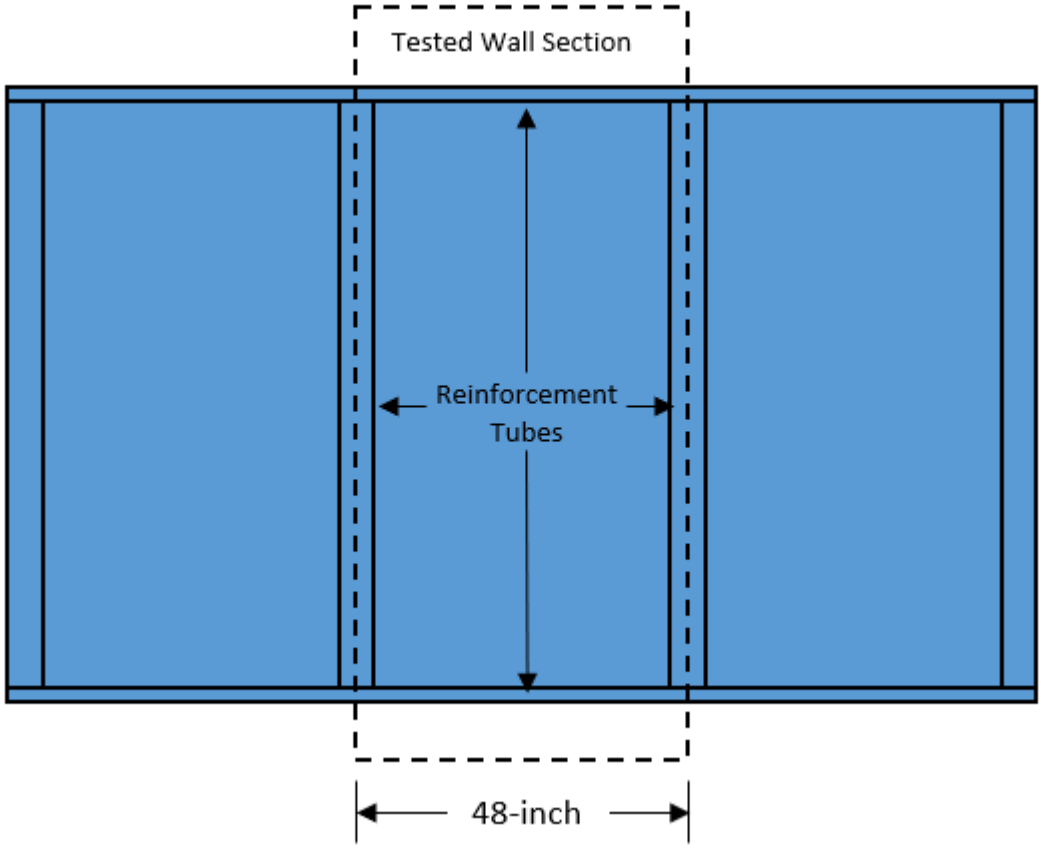

FIGURE 4: PANEL WALL ASSEMBLY