



## ICC-ES Listing Report

Reissued January 2024

### ESL-1341

This listing is subject to renewal January 2025.

**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:** PROGUARD® CONCRETE INSULATED SHEATHING PANELS

ProGuard® Concrete Insulated Sheathing Panels are factory-assembled, cement board faced panels with an expanded polystyrene (EPS) foam plastic backer conforming to ASTM C578 Type IX or extruded polystyrene (XPS) foam plastic backer conforming to ASTM C578 Type VI. The panels are intended for use as sheathing and finishing systems for light commercial structures.

**Listee:** T CLEAR CORPORATION

**Evaluation:** ProGuard® Concrete Insulated Sheathing Panels were evaluated when tested in accordance with the following standards:

- NFPA 285 (-12 and -06), Standard Fire Test Method for the Evaluation of Fire Propagation Characteristics of Exterior Non-load-bearing Wall Assemblies Containing Combustible Components, National Fire Protection Association.
- ASTM E330-02 (2010), Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference, ASTM International.

#### Section 1: NFPA 285 Assembly:

**Interior Finish:** The interior surface of the wall assembly must be cladded with one layer of 1/2-inch-thick (12.7 mm) Type X gypsum wallboard complying with ASTM C1396. The gypsum wallboard must be fastened to the wall framing with No. 6 x 1 1/4-inch long (31.8 mm), Type S self-drilling screws with a nominal spacing of 8 inches (203 mm) around the board perimeter and 12 inches (305 mm) in the field. The fasteners and joints must be covered with joint tape and joint compound in accordance with ASTM C840 or GA216.

The wall must be framed with 3 5/8-inch (92.1 mm) wide 16 GA galvanized steel studs spaced maximum of 24 inches on-center (609 mm). Mineral wool batt insulation, with a nominal density of 4 lbs/ft<sup>3</sup> (64 kg/m<sup>3</sup>), must be installed per the manufacturer's installation instructions to fit into each stud cavity placed at each floor line.

**Exterior Finish:** One layer of 2 1/4-inch-thick (57.2 mm) ProGuard® Concrete Insulated Sheathing Panels must be placed horizontally across the full exterior surface of the assembly. Each panel measures 36 inches wide by 96 inches long (914 mm by 2439 mm) and consists of 1/4 inch thick (6.4 mm) Util-A-Crete concrete glass-fiber-mesh-reinforced board facer adhered to 2-inch-thick (51.7 mm) rigid extruded polystyrene (XPS) foam board to one side only. The ProGuard® panels are fastened to the exterior face of the steel stud framing with #14 x 3 inch (76.2 mm) long pancake head screws spaced 12 inches on center (305 mm). All panels shall be consistent as detailed within this report except panels installed directly over openings shall be installed with 1/4-inch thick (6.4 mm) Util-A-Crete concrete glass-fiber-mesh-reinforced board facer adhered to 2-inch

thick (51.7 mm) mineral wool insulation with a nominal density of 4 lbs/ft<sup>3</sup> (64 kg/m<sup>3</sup>). The exterior panel joints must be coated with T Clear SealGUARD with 6 inch (152 mm) wide fiberglass mesh embedded in the SealGUARD as joint reinforcement. The fastener heads must be coated with SealGUARD. See Figure 1 for details.

**Window Detailing:** At window openings, the perimeter must be covered with 25 GA channel flashing [6½ inch wide (165 mm) with two-1 inch long (25.4 mm) legs].

**Section 2: ASTM E330 Assembly:**

**WALL FRAMING:** Wood studs with a minimum specific gravity of 0.55 and minimum width of 1 ½ inch (38.1 mm). Framing spacing must not exceed 16 inches on-center (406 mm).

**SHEATHING:** One layer of 2¼-inch-thick (57.2 mm) ProGuard® Concrete Insulated Sheathing Panels must be placed horizontally across the full exterior surface of the assembly. Each panel measures 36 inches wide by 96 inches long (914 mm by 2439 mm) and consists of ¼ inch thick (6.4 mm) Util-A-Crete concrete glass-fiber-mesh-reinforced board facer adhered to 2-inch-thick (51.7 mm) rigid extruded polystyrene (XPS) foam board to one side only. The ProGuard® panels are fastened to the exterior face of the wood stud framing with 4 inch long (102 mm) pancake head self-drilling screws having a minimum thread diameter of 0.240-inch (6 mm) and shank diameter of 0.190-inch (4.8 mm) spaced 6 inches on-center (152 mm) around the board perimeter and 6 inches on-center (152 mm) in the field.

**Findings:**

- The assembly, described in Section 1, with the ProGuard® Concrete Insulated Sheathing Panels as a component of the assembly, comply with the conditions of acceptance described in NFPA 285 when tested in accordance with NFPA 285 for use in Types I, II, III or IV construction, as referenced in the applicable section of the following code editions.  
  
2018, 2015, and 2012 *International Building Code*®  
Applicable Section: 2603.5.5
- The assembly, described in Section 2, with the ProGuard® Concrete Insulated Sheathing Panels as a component of the assembly, have allowable design pressures as specified in Table 1 below, based on testing in accordance with Procedure B of ASTM E330.

**Table 1—Allowable Uniform Pressure**

Direction of Load	Allowable Pressure <sup>1</sup> (psf)
Positive	109
Negative	-79

For SI: 1 psf = 0.048 kPa

<sup>1</sup>Allowable loads are determined using a factor of safety of 3.0 against ultimate load and a deflection criterion less than L/360 at allowable pressures.

**Identification:**

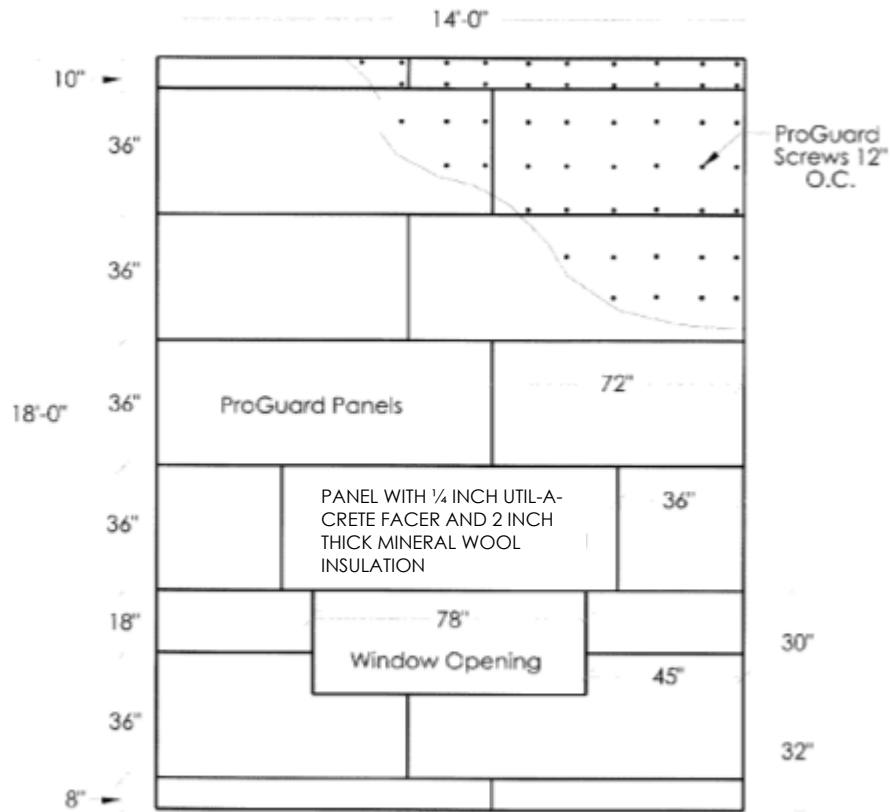
1. Packaging of the ProGuard® Concrete Insulated Sheathing Panels carry a label indicating the manufacturer’s name (T Clear Corporation) and address, batch number / production date, the product name, ICC-ES listing number (ESR-1341), and when applicable, the ICC-ES listing mark.
2. The report holder’s contact information is the following:

**T CLEAR CORPORATION  
3255 SYMMES ROAD  
HAMILTON, OHIO 45015**

**Installation:** The product must be installed in accordance with T Clear Corporation’s published installation instructions and applicable codes.

**Conditions of Listing:**

1. The listing report addresses only conformance with the standard and code sections 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 Assembly, as detailed in Section 1.0, describes the wall assembly using ProGuard® Concrete Insulated Sheathing Panels, which has been qualified for use in Types I, II, III or IV construction of exterior nonload-bearing wall assembly.
5. The ProGuard® Concrete Insulated Sheathing Panels are manufactured under a quality control program with inspections by ICC-ES.



\* Note: A 25ga. metal c-channel will go around entire wall and window opening. The c-channel will be 6 1/2" wide with two 1" legs off each end.

**FIGURE 1—ASSEMBLY #1 - NPFA 285 LAYOUT**