

ICC-ES Listing Report



ESL-1618 Issued November 2024 This listing is subject to renewal November 2025.

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CSI: DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION Section: 07 42 00—Wall 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: CF12 WALL PANELS
- Listee: G-CON CLEAN SOLUTIONS

Additional

Listees: PLASTEUROP / PANELCO SAS

Evaluation: CF12 Wall Panels are prefabricated panels consisting of 0.024-inch-thick (0.6 mm) galvanized sheet steel facers adhered to a layer of high-density mineral wool insulation (nominal density of 10.3 lbs./ft³ (165kg/m³)) with a proprietary polyurethane adhesive. The outward facing side of the sheet steel facers has either a 2 mil thick [0.002 inch (0.051 mm)] PET finish or a 1 mil thick [0.001 inch (0.025 mm)] polyester lacquer finish. The panels are not fully encapsulated by the sheet steel facers—the mineral wool insulation is exposed around all panel edges. CF12 Wall Panels have an overall thickness of 4.73 inch (120 mm) and a width of 47.25 inches (1.2 m). The wall panels contain an interlocking edge for connection of adjacent panels along the vertical edge of the panel's steel facers, and a channel housing cavity within the insulation layer. When constructing a wall consisting of multiple panels, the perimeter of the wall must be secured to supporting framing members with panel attachment angles, as described in the Design Listings.

CF12 Wall Panels have been evaluated based on tested non-loadbearing wall assemblies tested in accordance with the following standard:

- ASTM E119-22, Standard Test Methods for Fire Tests of Building Construction and Materials, ASTM International.
- **Findings:** Evaluation of CF12 Wall Panels as components of the assembly is based on testing in accordance with the applicable test method as referenced in each ICC Design No., and as referenced in the applicable sections of the following code editions:
 - 2024 International Building Code[®] (IBC) Applicable Section: 703.2
 - 2024 International Residential Code[®] (IRC) Applicable Section: R302

Identification:

- 1. The ICC-ES mark of conformity, electronic labeling, or the listing report (ICC-ES <u>ESL-1618</u>) and when applicable the ICC-ES listing mark, along with the name, registered trademark, or registered logo of the listee must be included in the product label.
- 2. In addition, CF12 Wall Panels shall be identified by a stamp or label on the panel bearing the name of the report holder, the product name, the address of the manufacturing plant, and the lot number.



3. The report holder's contact information is the following:

G-CON CLEAN SOLUTIONS 6161 IMPERIAL LOOP COLLEGE STATION, TEXAS 77845 (979) 431-0700 www.gconbio.com

4. The additional listees' contact information is the following:

PLASTEUROP / PANELCO SAS ROUTE DE CHAVEYRIAT – BP 10 VONNAS, FRANCE 01540 (+33) 04 74 50 91 00 www.plasteurop.com

Installation: CF12 Wall Panels must be installed in accordance with the manufacturer's published installation instructions and applicable codes.

Conditions of Listing:

- 1. The listing report addresses only conformance with the standards and code sections noted above.
- 2. Approval of the product's use is the sole responsibility of the local code official.
- 3. The listing applies only to the materials tested and as submitted for review by ICC-ES.
- 4. CF12 Wall Panels are manufactured under a quality control program with inspections by ICC-ES.



ICC Design No. TMP-1618-01

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Applicant: G-CON CLEAN SOLUTIONS

Additional Listees: PLASTEUROP / PANELCO SAS

Product: CF12 WALL PANELS

Standard: ASTM E119

Assembly

Rating:2-Hour (Symmetric Wall Assembly)

Load: Non-loadbearing

TMP = Thermal and Moisture Protection



Listings are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the listing or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this listing, or as to any product covered by the listing.





COMPONENTS OF CONSTRUCTION:

ITEM NO.	COMPONENTS	MATERIALS
1	Wall Panel—	CF12 Wall Panels – 4.73 inch thick (120 mm) prefabricated wall panels, consisting of 0.024-inch-thick (0.6 mm) galvanized sheet steel facers adhered to a layer of high-density mineral wool insulation (nominal density of 10.3 lbs./ft ³ (165 kg/m ³)) with a proprietary polyurethane adhesive. The outward facing side of the sheet steel facers has either a 2 mil thick [0.002 inch (0.051 mm)] PET finish or a 1 mil thick [0.001 inch (0.025 mm)] polyester lacquer finish. The wall panels must be installed with long dimensions vertically. The wall panels contain an interlocking
		edge for connection of adjacent panels along the vertical edge of the panel's steel facers, and a channel housing cavity within the insulation layer. Where a constructed wall consists of multiple panels, the perimeter of the wall must be secured to supporting framing members with panel attachment angles, as described in Item 3, and the vertical edge joints protected, as described in Item 4.
2	Steel Tube Raceway—	A 3.94 inch wide by 1.58 inch deep by 0.12-inch thick (100 mm wide by 40 mm deep by 3 mm thick) Hollow Structural Section (HSS) Steel Tube must be installed in the channel housing cavity between connecting vertical panel edges. The interface between the HSS Steel Tube and the vertical edge joints must be protected, as described in Item 4.
3	Perimeter Framing Members	Minimum 0.06-inch (1.5 mm) thick galvanized steel angles with minimum 2 inch by 2 inch (50 mm by 50 mm) legs are used as perimeter framing for the wall assembly and added to each side of the wall panel. The perimeter framing members are oriented to allow for connection of wall panel to the support framing. Perimeter framing members must be secured to the wall panels with minimum ³ / ₄ -inch (19.1 mm) long No. 8 self-drilling pancake head screws spaced at a maximum of 10 inches (254 mm) on center. Perimeter framing members must be secured to the support framing with minimum M6 dowel anchors spaced at a maximum of 10 inches (254 mm) on center. Each angle leg interface must be protected, as described in Item 4.
4	Joint Treatment/Seam Protection— Note: The joint treatment/seam protection must incorporate	A – Fire-Rated Mastic – Prior to connecting adjacent wall panels together, Rubson CF55 Silicone Alcoxy must be applied at the panel-to-panel interlocking interfaces and panel-to-HSS Steel Tube interfaces as indicated in Detail B. Prior to installation of the perimeter framing members, Rubson CF55 Silicone Alcoxy must be applied at the panel-to-perimeter framing member interfaces and support framing-to-perimeter framing member interfaces as indicated in Detail A. Rubson CF55 Silicone Alcoxy must be applied in accordance with the wall panel manufacturer's installation instructions.
	construction features A and B.	B – Intumescent Mastic – Prior to connecting adjacent wall panels together, Nullifire FS709 HP Intumescent Sealant must be applied at the panel-to-panel interlocking interfaces as indicated in Detail B. Nullifire FS709 HP Intumescent Sealant must be applied in accordance with the wall panel manufacturer's installation instructions.

For **SI:** 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lbs./ft³ = 16.01 kg/m³.



ICC Design No. TMP-1618-02

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2	Channel Housing Fill—	An internal layer of high-density mineral wool insulation (nominal density of 10.3 lbs./ft ³ (165 kg/m ³)) must be installed in the channel housing cavity between connecting vertical panel edges. The internal layer must consist of a 2.56 inch wide by 1.58 inch deep (65 mm wide by 40 mm deep) fill layer and a 1.38 inch wide by 1.58 inch deep (35 mm wide by 40 mm deep) fill layer running the height of the wall panel, as shown in Detail B. The interface between the vertical edge joints of the panel and the insulation and the insulation interface must be protected, as described in Item 4.
3	Perimeter Framing Members	Minimum 0.06-inch (1.5 mm) thick galvanized steel angles with minimum 2 inch by 2 inch (50 mm by 50 mm) legs are used as perimeter framing for the wall assembly and added to each side of the wall panel. The perimeter framing members are oriented to allow for connection of wall panel to the support framing. Perimeter framing members must be secured to the wall panels with minimum ³ / ₄ -inch (19.1 mm) long No. 8 self-drilling pancake head screws spaced at a maximum of 10 inches (254 mm) on center. Perimeter framing members must be secured to the support framing with minimum M6 dowel anchors spaced at a maximum of 10 inches (254 mm) on center. Each angle leg interface must be protected, as described in Item 4.
4	Joint Treatment/Seam Protection— Note: The joint treatment/seam protection must incorporate construction features A and B.	 A - Fire-Rated Mastic - Prior to connecting adjacent wall panels together, Rubson CF55 Silicone Alcoxy must be applied at the panel-to-panel interlocking interfaces and panel-to-insulation interfaces as indicated in Detail B. Prior to installation of the perimeter framing members, Rubson CF55 Silicone Alcoxy must be applied at the panel-to-perimeter framing member interfaces and support framing-to-perimeter framing member interfaces as indicated in Detail A. Rubson CF55 Silicone Alcoxy must be applied in accordance with the wall panel manufacturer's installation instructions. B - Intumescent Mastic - Prior to connecting adjacent wall panels together, Nullifire FS709 HP Intumescent Sealant must be applied at the panel-to-panel interlocking interfaces as indicated in Detail B. Nullifire FS709 HP Intumescent Sealant must be applied at the panel-to-panel interlocking interfaces as indicated in Detail B. Nullifire FS709 HP Intumescent Sealant must be applied at the panel-to-panel interlocking interfaces as indicated in Detail B. Nullifire FS709 HP Intumescent Sealant must be applied at the panel-to-panel interlocking interfaces as indicated in Detail B. Nullifire FS709 HP Intumescent Sealant must be applied in accordance with the wall panel manufacturer's installation instructions.