



## ICC-ES PMG Product Certificate

PMG-1788



Effective Date: January 2025

This listing is subject to re-examination in one year.

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A Subsidiary of the International Code Council®

CSI: DIVISION: 23 00 00—HEATING, VENTILATION AND AIR CONDITIONING (HVAC)  
Section: 23 21 13—Hydronic Piping

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: ThermaPANEL Modular Hydronic Radiant Heating and Cooling Panel System

Listee: Therma-HEXX Corporation  
199 Constitution Ave, Suite 7  
Portsmouth, NH 03801  
[www.therma-hexx.com](http://www.therma-hexx.com)

Compliance with the following codes:

2024, 2021, 2018, 2015, and 2012 *International Residential Code*® (IRC)  
2024, 2021, 2018, 2015, and 2012 *International Mechanical Code*® (IMC)  
2024, 2021, 2018, 2015, and 2012 *Uniform Mechanical Code*® (UMC)\*  
2022, 2019, 2016, 2013 and 2010 *California Mechanical Code*® (CMC)\*  
2023, 2020 and 2017 *City of Los Angeles Mechanical Code*  
2023, 2021 and 2017 *Massachusetts State Building Code 780 CMR Ninth Edition: Chapter 28*  
2020, 2015, 2010 and 2005 *National Plumbing Code of Canada*\*\*

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\*\* National Plumbing Code of Canada is a copyrighted publication of National Research Council Canada

Compliance with the following standards:

ASTM D1599-2018(R24), Standard Test Method for Resistance to Short-Time Hydraulic Pressure of Plastic Pipe, Tubing, and Fittings  
CSA B214-2016, Installation code for Hydronic Heating Systems, Section 4.5.1

Identification:

Each ThermaPANEL unit shall be marked the manufacture's name, date of production, direction of flow, and the ICC-ES PMG listing mark.

Installation:

The ThermaPANEL must be installed in accordance with the manufacturer's published installation instructions. Installation may be subject to approval by the code official having jurisdiction.

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.



The ThermaPANEL system shall be pressure tested in accordance with the manufacturer's recommendations to not exceed 50 psi.

Clearances from heat-producing equipment must be in accordance with Section 503.7.8 of the 2012 *International Fuel Gas Code*<sup>®</sup>, Section M1306 of the IRC or Section 802.10.5 of the UMC, as applicable.

Models:

The ThermaPANEL is a Modular Hydronic Radiant Heating and Cooling Panel System manufactured from HDPE material panel walls and PE-RT SDR-9 connection tubing. Maximum working pressure shall be 37 psi and maximum working temperature shall be 140°F.

The ThermaPANEL was hydrostatically tested to meet Section 1208 of the IMC and Section 1221 of the IMC of not less than 100 psi (689 kPa) for 15 minutes and Section 4.5.1 of CSA B214 of 60 psi for 1 hour. The maximum burst test was found to be 170 psi

Note: Additional information for tubing is available under ICC-ES PMG-1413

Conditions of Listing:

1. When code approval is required, details on the design and installation of the heating system must be submitted to the code official for approval.
2. When code approval is required, the installation of the ThermaPANEL must be pressure-tested for leaks in the presence of the code official or the official's designated representative prior to covering. Testing for leaks after installation shall be in accordance with the manufacturer's recommendations to not exceed 50 psi.
3. The potable water connections must be protected against backflow from the hydronic heating system.
4. The tubing must not be used as a source of electrical ground.
5. The tubing serving as a component of radiant systems is limited to applications using potable water or potable water/anti-freeze solution based on anti-freeze products approved for hydronic heating system use as the transfer fluid.
6. When the system is embedded in concrete, the panel must be installed in accordance with the manufacturer's instructions.
7. The ThermaPANEL system is manufactured under a quality control program with surveillance inspections by ICC-ES.