



## **BUILDING PRODUCTS LISTING PROGRAM**

Customer: Hercutech Incorporated  
Class: Insulated Concrete Forms  
Website: [www.hercutech.com](http://www.hercutech.com)

Locations: Peorie, Arizona USA

Listing No. B1123-1  
Project No. B1123-1 Edition 4

Effective Date: November 25, 2020  
Last Revised Date: February 23, 2023  
Expires: N/A

|                      |   |
|----------------------|---|
| Standards: ASTM C578 | Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.  |
| UL 723               | Standard for Test for Surface Burning Characteristics of Building Materials.  |
| ASTM E119            | Standard Test Methods for Fire Tests of Building Construction and Materials.  |
| NFPA 285             | Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components. |

Product: HercuWall® Series 8 Panels and Accessories of the following types:

- Type S Panels
- Type SW Panels
- Type A Panels
- HercuWall® Seaming Tape

HercuWall® Series 8 are available in an 8” and 12” concrete stud spacing, and Solid Shear wall option with solid concrete core (Type A panels are not available in Solid Shear wall options).

Additional accessories are available for use with HercuWall® Series 8 panels. Refer to QAI report CER<sub>US</sub>-1003 for details.

Markings: Each panel is marked with a permanent label containing the following information:

- a) Manufacturers name or recognized trademark.
- b) Product name
- c) Traceability Code
- d) Reference to QAI file B1123-1 and report CER<sub>US</sub>-1003
- e) ASTM E84 Flame Spread Index and Smoke Developed Index (FSI ≤ 25 / SDI ≤ 450)
- f) QAI logo shown here:



Models / Ratings: **The following outlines HercuWall® Series 8 Panels performance determined in accordance with the noted standards.**

HercuWall® Series 8 Panels thermal insulation specifications per ASTM C578:

| PROPERTY   | Expanded Polystyrene Insulation |         |
|--|---------------------------------|---------|
|  | TYPE II                         | TYPE IX |
| Compressive Strength Minimum @ 10% Deformation (psi)                 | 15.0                            | 25.0    |
| Thermal Resistance Minimum @ 1 inch Thick (F*ft <sup>2</sup> *h/Btu) | 4.0                             | 4.2     |
| Flexural Strength Minimum (psi)                                      | 35.0                            | 50.0    |
| Water Vapor Permeance @ 1 inch Thickness Maximum (Perms)             | 3.5                             | 2.5     |
| Water Absorption By Volume Maximum (%)                               | 3.0                             | 2.0     |
| Dimensional Stability Linear Change Maximum (%)                      | 2.0                             | 2.0     |
| Oxygen Index Minimum (%)   | 24.0                            | 24.0    |
| Density Minimum (lbs/ft <sup>3</sup> )                               | 1.35                            | 1.80    |

HercuWall® Series 8 Panels thermal insulation surface burning characteristics determined in accordance with UL 723:

| EXPANDED POLYSTYRENE (EPS) INSULATION | DENSITY                          | MAXIMUM THICKNESS  | FLAME SPREAD INDEX (FSI) | SMOKE DEVELOPED INDEX (SDI) |
|---------------------------------------|----------------------------------|--------------------|--------------------------|-----------------------------|
| Type II - Type IX EPS                 | Maximum 2.65 lbs/ft <sup>3</sup> | 8.5 Inches Maximum | ≤ 25                     | ≤ 450                       |

HercuWall® Series 8 Panels fire-resistance ratings per ASTM E119 – Loadbearing† Walls and Partitions:

| QAI Design # | Fire Resistance Rating  | Sheathing                                     |
|--------------|---|---|
| B1123-1a     | ASTM E119 – HercuWall® Series 8 Panels 1 Hour– Load Bearing <sup>1</sup> Fire Resistance-Rated Wall Assembly              | 1 Layer 5/8 (16 mm) Type X gypsum each face.  |
| B1123-1b     | ASTM E119 – HercuWall® Series 8 CFC Box Beam Panels 1 Hour– Load Bearing <sup>1</sup> Fire Resistance-Rated Wall Assembly | 1 Layer 5/8 (16 mm) Type X gypsum each face.  |
| B1123-1c     | ASTM E119 – HercuWall® Series 8 Panels 2 Hour– Load Bearing <sup>1</sup> Fire Resistance-Rated Wall Assembly              | 2 Layers 5/8 (16 mm) Type X gypsum each face. |
| B1123-1d     | ASTM E119 – HercuWall® Series 8 CFC Box Beam Panels 2 Hour– Load Bearing <sup>1</sup> Fire Resistance-Rated Wall Assembly | 2 Layers 5/8 (16 mm) Type X gypsum each face. |

<sup>1</sup> Refer to report CER<sub>US</sub>-1003 for allowable loading for HercuWall® Series 8 Panels used in Fire-Resistance Rated Assemblies

HercuWall® Series 8 Panels have been evaluated for potential to propagate fire per NFPA 285 and found compliant for the following exterior walls assemblies:

| QAI Design # | Assembly  | Results                             |
|--------------|---|-------------------------------------|
| B1123-1e     | HercuWall® Type S, SW and A Panels, used in Exterior Walls Cladding per Design Listing B1123-1e | Complies with NFPA 285 Requirements |

Notes:

*Products must be installed with the manufacturer’s published installation instructions and in accordance with the building codes recognized by the authority having jurisdiction.*

*Product is to be installed in accordance with the QAI Design Listing and manufacturer’s published installation instructions by qualified installing personnel.*

*Final acceptance of the installed product is to be determined by the authority having jurisdiction.*

*Listed manufacturers are subject to on-going inspections by QAI to ensure that the products outlined above remains as it is listed.*

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