

ICC-ES Evaluation Report


ESR-2680

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<p>DIVISION: 09 00 00— FINISHES</p> <p>Section: 09 77 00— Special Wall Surfacing</p>	<p>REPORT HOLDER:</p> <p>TOTAL BASEMENT FINISHING INC.</p>	<p>EVALUATION SUBJECT:</p> <p>EVERLAST WALL PANEL SYSTEM™ AND EVERLAST PARTITION WALL PANEL SYSTEM™</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2018, 2015, 2012, and 2009 [International Building Code® \(IBC\)](#)
- 2018, 2015, 2012, and 2009 [International Residential Code® \(IRC\)](#)
- Other Codes (see Section 8)

Properties evaluated:

- Surface-burning characteristics
- Interior finish stability
- Interior partition horizontal load resistance

2.0 USES

The Everlast Basement Wall Panel System™ and Everlast Partition Wall Panel System™ are used to cover basement walls, and for partitions in basement areas. The basement wall systems are alternatives to interior finishes as described in Chapters 8 and 25 of the IBC and Sections R302.9 and R702 of the IRC. The wall panel systems have only been evaluated for use in Types III and V-B construction

3.0 DESCRIPTION

3.1 Everlast Basement Wall Panel System™:

The Everlast Basement Wall Panel System™ consists of nominally 1/2-inch-thick (13 mm) fibrous cement board adhered to one face of a 2 1/2-inch-thick (64 mm) extruded polystyrene (EPS) closed cell foam plastic insulation manufactured by DuPont de Nemours, Inc. ([ESR-2142](#)) or manufactured with BASF Neopor EPS resin (ESR-2784). A 6-mil-thick (0.15 mm) vinyl covering is laminated to the face of the panel. The assembled panels are 48 inches wide by 96 inches high by 3 inches thick (1219 by 2438 by 76 mm) or 3 11/16-inch-thick (1219 by 2438 by 94 mm).

3.2 The Everlast Partition Wall Panel System™:

The Everlast Partition Wall Panel System™ consists of nominally 1/2-inch-thick (13 mm) fibrous cement board adhered to each face of a 2 1/2- or 3 3/16-inch-thick (64 or 81 mm) EPS closed cell foam plastic insulation manufactured by DuPont de Nemours, Inc. ([ESR-2142](#)) or manufactured with BASF Neopor EPS resin (ESR-2784). A 6-mil-thick (0.15 mm) vinyl covering is laminated to the face of the panel. The assembled panels are 48 inches wide by 96 inches high by 3 1/2 or 4 3/16 inches thick (1219 by 2438 by 89 or 106 mm).

3.3 Other Components:

Other components provided by Total Basement Finishing Inc. include PVC inside and outside corner trims, metal batten seam cover and vinyl cap, No. 22 gauge steel "L" channel, No. 25 gauge steel "U" channel, No. 20 gauge steel panel biscuit with arm, and listed electrical boxes.

3.4 Surface-burning Characteristics:

The Everlast Basement Wall Panel System™ and the Everlast Partition Wall Panel System™ meet the requirements for classification as a Class A interior wall finish under the IBC and conform to Section R302.9 of the IRC, when tested in accordance with ASTM E84 / UL 723.

4.0 DESIGN AND INSTALLATION

4.1 General:

The Everlast Basement Wall Panel System™ must be installed in accordance with the manufacturer's published installation instructions, the applicable code and this report. All electrical, mechanical and plumbing work must be completed prior to installation of the wall system. Listed nonmetallic electrical boxes and wiring must be installed in accordance with the applicable code requirements and are subject to approval of the code official.

4.2 Fastening Base Channel to Existing Concrete Slab:

The No. 25 gauge steel "U" channel provides support for the wall panel and must be attached to concrete floors with No. 10, 1¹/₄-inch-long (32 mm) masonry screws spaced 16 inches (406 mm) on center.

4.3 Fastening "L" Channel to the Ceiling:

The No. 22 gauge steel "L" channel must be attached to the ceiling of the room with the wide portion of the channel facing down. The "L" channel is attached to joists with No. 6, 1¹/₄-inch-long (32 mm), coarse thread, bugle head drywall screws spaced 16 inches (406 mm) on center.

4.4 Panel Installation:

The wall panels must be installed into the lower metal "U" channel at the base and stand up against the metal "L" channel that is mounted to the ceiling of the room. The wall panels are attached to the metal "L" channel with two No. 8, 4-inch-long (102 mm), coarse thread, bugle head drywall screws for the 3 inch (76 mm) panel and two No. 10, 4¹/₂-inch-long (102 mm), coarse thread, bugle head drywall screws for the 3¹¹/₁₆ inch (94 mm) panel. The No. 8 or No. 10 screws, respectively, are installed through the front face of the panel, ³/₄ inch (19 mm) down from the top of the panel and a minimum of 3 inches (76 mm) from the vertical edge.

The wall panels must be attached to the metal based "U" channel with two No. 6, 1¹/₄-inch-long (32 mm), coarse thread, bugle head dry wall screws. The screws are installed through the front face of the panel, ³/₄ inch (19 mm) up from the bottom of the panel and a minimum of 3 inches (76 mm) from the vertical edge.

For the adjacent panel leading into a 90-degree inside corner, a ¹/₈-inch-wide-by-1¹/₂-inch-deep (3.2 by 38 mm) groove must be cut into the edge of the panel where the fibrous cement board meets the insulation board, to allow for installation of the corner trim piece.

4.5 Panel Biscuit with Arm:

The No. 20 gauge steel Panel Biscuit with Arm must be attached 48 inches (1219 mm) from the bottom of the panel by inserting the biscuit between the foam and the cement board. The biscuit arm must be attached to the existing concrete basement wall with No. 10, 1¹/₄-inch-long (32 mm) masonry screws.

4.6 Batten Trim Installation and Vinyl Cap:

Metal batten strips are installed at each wall seam with No. 6, 1¹/₄-inch-long (32 mm), coarse thread, bugle head drywall screws in predrilled holes. The snap-on decorative vinyl caps are installed over the metal batten strips.

5.0 CONDITIONS OF USE:

The Everlast Basement Wall Panel System™ and Everlast Partition Wall Panel System™ described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 Installation of the panels must be in accordance with this report, the applicable code and the manufacturer's published installation instructions. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.

- 5.2 Installation of the panels must be done by contractors trained and authorized by Total Basement Finishing Inc.
- 5.3 Concealed electrical, mechanical or plumbing components must be installed and inspected prior to the installation of the panels, so compliance with the applicable code can be verified.
- 5.4 Concealed spaces must be draft-stopped and fire-blocked in accordance with IBC Section 717 or IRC Section R302.11, R302.12 or R602.8, as applicable.
- 5.5 The panels are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's published installation instructions.
- 6.2 Reports of fire tests in accordance with ASTM E84 and UL 1715.
- 6.3 Reports of panel stability testing at 200°F (93°C) for 30 minutes.
- 6.4 Reports of transverse load tests in accordance with ASTM E72.
- 6.5 Quality documentation in accordance with the [ICC-ES Acceptance Criteria for Quality Documentation \(AC10\)](#).

7.0 IDENTIFICATION

- 7.1 The Everlast Wall System™ components carry a label bearing the name of Total Basement Finishing Inc., the product name, and the evaluation report number (ESR-2680).
- 7.2 The report holder's contact information is the following:

TOTAL BASEMENT FINISHING INC.
60 SILVERMINE ROAD
SEYMOUR, CONNECTICUT 06483
(800) 541-0487
www.totalbasementfinishing.com
www.basementsystems.com

8.0 OTHER CODES

In addition to the codes referenced in Section 1.0, the products recognized in this report have also been evaluated for compliance with the requirements of the 2006 International Building Code® (2006 IBC) and the 2006 International Residential Code® (2006 IRC). The products comply with the 2006 IBC and the 2006 IRC just as described in Sections 1.0 through 7.0 of this report.

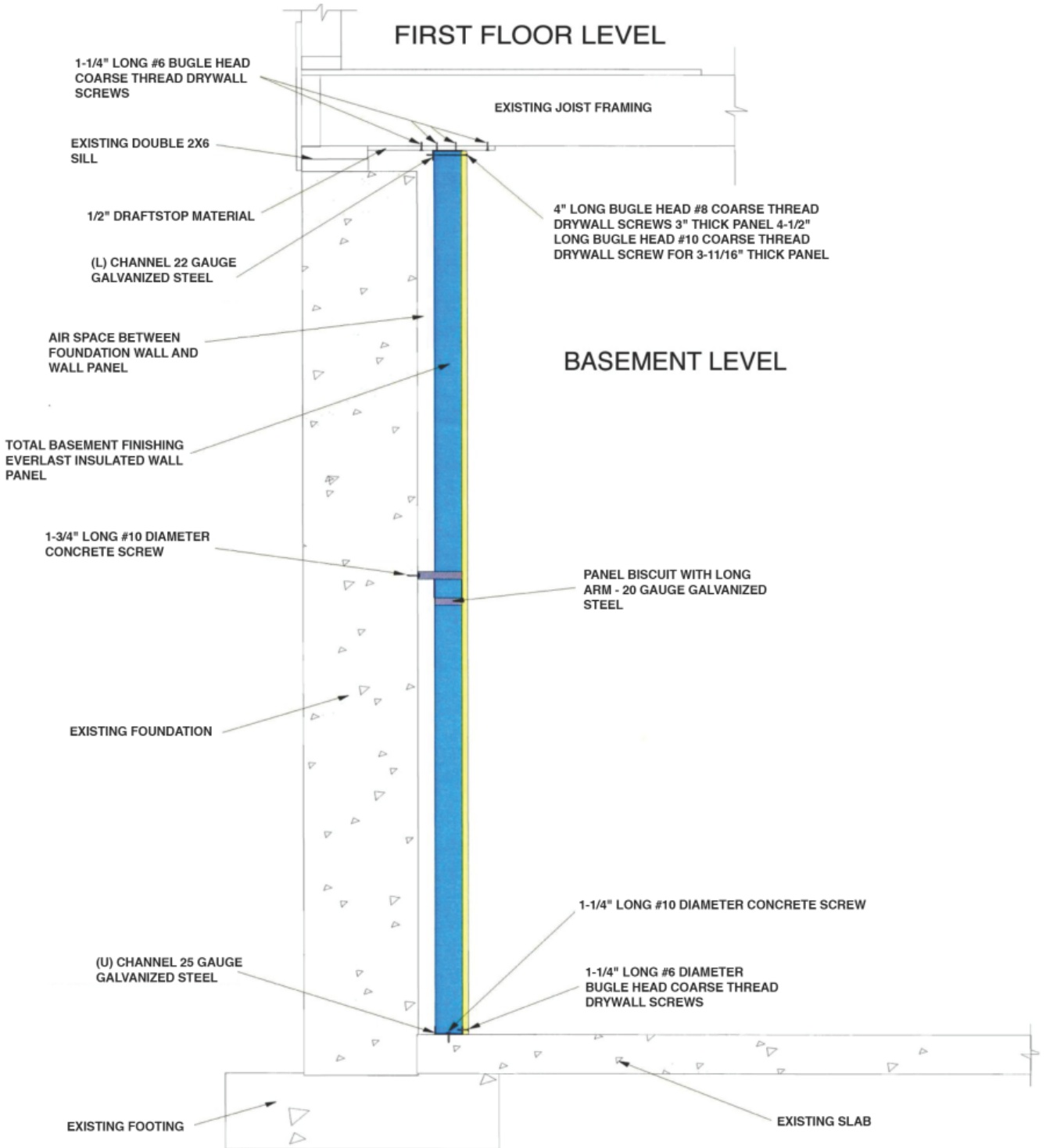


FIGURE 1
DETAILS FOR EVERLAST BASEMENT WALL PANEL SYSTEM™