ICC PEI LLC

PER-19251

ICC PEI LLC is an accredited **ISO Standard 17065** Product Certifier. This **Product Evaluation Report** represents a product that **ICC PEI** has Evaluated. This product has a Product Evaluation Service Agreement & Follow-up Inspection Service Agreement. This **Product Evaluation Report** in no way implies warranty for this product or relieves **Independence Materials Group** of their liabilities for this product. This **PER** is an official document if it is within one year of the Initial or Re-Approved date.

Initial Approval November, 2021

Re-Approved

See all reports at: www.p-e-i.com

Report Owner

Independence Materials Group (IMG)
1741 Corporate Landing Parkway
Virginia Beach, VA 23454

Product

IntelliBrace Foundation Wall Support

Approved Manufacturing Location

Independence Materials Group (IMG)
640 Rosewood Drive
Columbia, SC 29201

Evaluation Report Information

www.independencematerialsgroup.com
IMG contact: Allen Gantt - (803) 807-8629

General Details

The following described foundation wall support system is designed to provide interior masonry or concrete wall support for foundation walls that have bowing or inward movement. The IntelliBrace is intended to stabilize the existing wall system and is not designed to push the walls back to their original position or to straighten the walls unless the soil is removed beforehand and is approved by the on site Engineer.

Product Description

The **IntelliBrace** system consists of a base mounting point, a vertical I-Beam and a load positioning and locking upper assembly. The IntelliBrace is mounted to an existing basement foundation or floor slab. The top of the IntelliBrace is attached by a bracket mounted to the existing wood floor joists and adjusted, tightened and locked by a bolt.

Component Description

Bottom Beam Retainer Plate - 4-3/8" x 6" x .31" tk. formed L-shape Steel, made from ASTM A36 Steel. Two pieces of 1"x1"x1/4"tk.x 2" lg. angle iron welded to the formed plate.

Vertical I-Beam - S4 x 7.7 steel I-Beam or larger. ASTM A992 Steel and is zinc electroplated.

Locking Bolt - 1" diameter ASTM F1554-55 bolt with a heavy hex nut tac welded to the bolt. Bolt is zinc electroplated.

Load Positioning Bracket - 1/4" thick ASTM A36 steel formed bracket shaped to fit around the I-Beam flange. 1" diameter schedule 40 pipe welded to the bracket to receive the threaded locking bolt. Bracket is zinc electroplated.

Joist Mounting Bracket - 1/4" thick x 6" x 8-1/2" ASTM A36 mounting plate with a 3/8" formed engagement bracket and a 1/4" ASTM A36 cross brace. All pieces are zinc electroplated.

Flow Tube Base Plate - 2"x4"x1/4", ASTM A500-Grade B Steel tube. The 8" long piece of tube is zinc electroplated.

Component Coatings

All components are to be coated to meet one of the following; ASTM A153, 43µm, ASTM B695 class 25 or ASTM B633 Fe/Zn 12

Code Compliance

IntelliBrace Wall Support	
2012 International Residential Code	**2012 International Building Code**
Section R104.11	Section 104.11 and 2205.1
2015 International Residential Code	**2015 International Building Code**
Section R104.11	Section 104.11, 2205.1
2018 International Residential Code	**2018 International Building Code**
Section R104.11	Section 104.11, 2205.1

Compliance with the following Standard

AISC-360-10 - Specification for Structural Steel Buildings-Allowable Stress Design
AISC-360-16 - Specification for Structural Steel Buildings-Allowable Stress Design

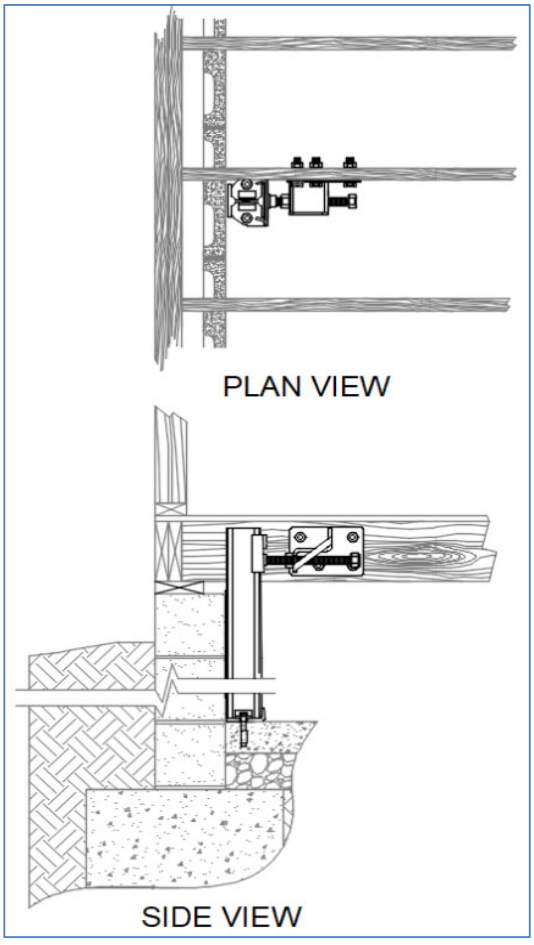
Design Considerations

1. A Licensed Engineer **shall** provide a structural evaluation on a site specific basis with at least the following considerations;
   a. The condition of the existing foundation wall.
   b. The soil conditions, loading potential and any site location requirements.
   c. Load carrying capacity of the applicable existing building components.
   d. Load carrying capacity of the IntelliBrace attachment points to the existing building and required fasteners.
   e. The load carrying capacity of the overall IntelliBrace system, quantity needed and required spacing.
   f. Designed to resist static soil pressure only.
   g. The IntelliBrace system load resistance capacity after consideration of a. thru f. above.
2. The maximum wall height to be supported by the IntellBrace is 8.8 ft. measured from footing to top of wall.
3. Unbalanced fill shall not exceed 8 feet.

General Product Use and Limitations

1. The IntelliBrace Foundation Wall Support system shall be installed by trained installers approved by Independence Materials Group.
2. The IntelliBrace Foundation Wall Support system shall be installed following the published installation instructions, in accordance with this PER and shall be made easily available on the job site at the time of installation.
3. A special inspection may be required by the Building Official as stated in the IBC Section 1705.
4. Concrete anchors shall be installed following the manufacturer's installation instructions.

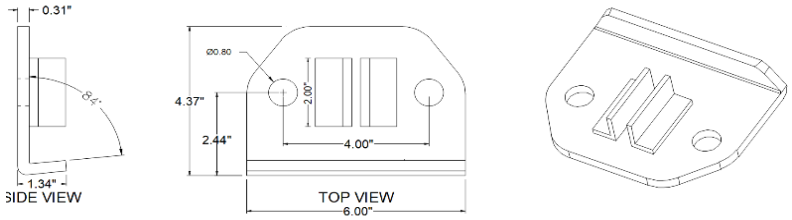
Attachments



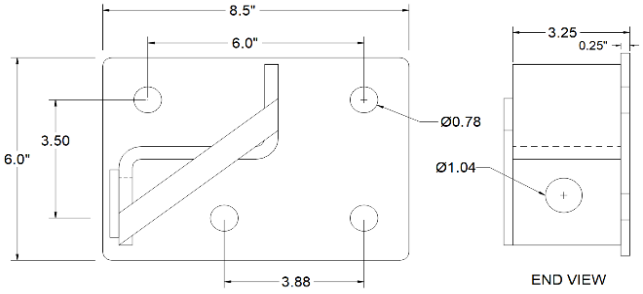
Perpendicular Joists

Table 1

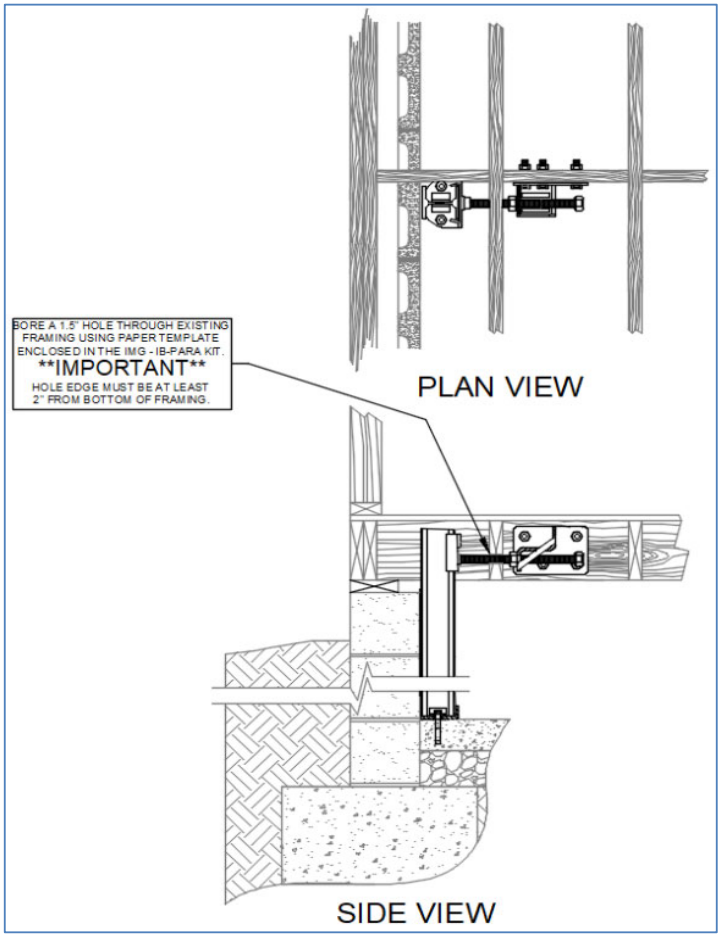
	Maximum Horizontal Load
Base Mount	5,800 Lbs.
I-Beam center	4,900 Lbs.
Joist Mount	2,770 Lbs.



Bottom Beam Retainer Plate

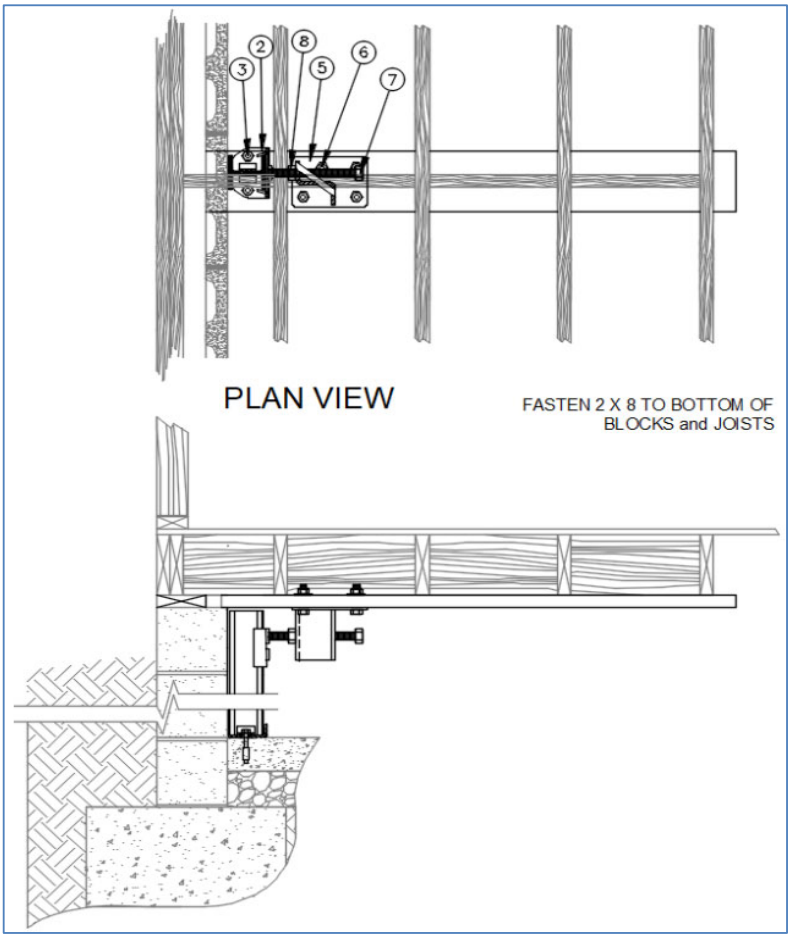


Joist Mounting Bracket



Parallel Joists Option 1

All blocking & securement shall be designed by the site Engineer



Parallel Joists Option 2

All blocking & securement shall be designed by the site Engineer

Product Labeling

All Foundation Wall Supports manufactured by I**ndependence Materials Group** that are covered by this PER must have a label attached with at least the following information:

1. Manufacturer Name
2. This PER Number & ICC PEI Logo

Acceptable Evaluation Mark

PER-19251

Product Documentation

A Product Evaluation Service Agreement between **ICC PEI LLC** and **Independence Materials Group, LLC**
An Follow-up Inspection Service Agreement between **ICC PEI LLC** and **Independence Materials Group, LLC**
A **Independence Materials group, LLC** - IntelliBrace Wall Brace Quality Control Manual - Dated: 10/26/2021
A **Independence Materials Group, LLC** - IntelliBrace Foundation Wall Support Components Drawings - Dated: October, 2021
A **Independence Materials group, LLC** - IntelliBrace Installation Instructions - Dated: 10/25/2021

A Structural Analysis for Intellibrace-S4 Brace, dated October 21, 2019. Stamped by a Professional Engineer