



## EVALUATION SUBJECT: ALUR WALL

### REPORT HOLDER:

Modular Architectural Interiors  
330 Waterloo Valley Road  
Mount Olive, NJ 07828  
Phone: (973) 446-2300 Fax: (973) 446-2399  
<http://alurwalls.com/>

CSI Division: 10— SPECIALTIES  
CSI Section: 10615—Demountable Partitions

## 1.0 SCOPE OF EVALUATION

### 1.1 Compliance to the following codes & regulations:

- 2009 International Building Code (IBC)
- 2006 International Building Code (IBC)

### 1.2 Evaluated in accordance with:

- IBC Chapter 16
- IBC Chapter 20
- IBC Chapter 24

### 1.3 The safety glazing complies with:

- Consumer Product Safety Commission (CPSC) 16 CFR 1201 Safety Standard for Architectural Glazing Material, Category II
- ANSI Z97.1, Class A

### 1.4 Properties assessed:

- Structural

## 2.0 PRODUCT USE

The ALUR Wall System is a relocatable, floor-to-ceiling, nonload-bearing, nonfire-resistance-rated interior wall partition system consisting of glazed wall panels and aluminum tracks and posts designed to interface and connect with one another or with existing building walls.

The system may be used in any Occupancy, including Essential Facilities, and in buildings assigned to Seismic Design Categories A to F.

## 3.0 PRODUCT DESCRIPTION

**3.1 Product information:** The wall system consists of glazed wall panels and doors and extruded aluminum tracks, as shown in Figures 1 and 2 of this report.

### 3.2 Material information:

**3.2.1 Glazing:** Tempered glass, 1/2 inch (12.7 mm) thick with maximum height of 10 feet (3048 mm) complies with ANSI Z97.1, Class A and CPSC 16 CFR 1201,

Category II as set forth in IBC Section 2406.2.

**3.2.2 Aluminum Tracks and Posts:** The members are extruded from 6063-T52 aluminum alloy with a minimum yield strength of 16,000 psi (110 MPa). Dimensional information is available from manufacturer upon request.

**3.2.3 Doors:** The ALUR Glass Pivot Door is made of full-height, frameless glass door leaf that is 1/2 inch (12.7 mm) thick and 35-3/4 inches (908 mm) wide, and operates with center pivot hinges, as shown in Figure 3 of this report.

The ALUR Wood Pivot Door is made of full-height, frameless solid core door leaf that is 1-3/4 inches (44.5 mm) thick and 35-3/4 inches (908 mm) wide, and operates with 3/4 inch (19 mm) offset pivot hinges.

The ALUR Single Glass Sliding Door is made of full-height, frameless glass door leaf that is 1/2 inch (12.7 mm) thick and 41-15/16 inches (1065 mm) wide, and operates with a sliding mechanism concealed in the 81-7/8 inches (1249 mm) wide door track, as shown in Figure 4 of this report.

The ALUR Double Glass Sliding Door is made of two full-height, frameless glass door leaves that are 1 1/2 inch (12.7 mm) thick and 36 inches (914 mm) wide each, and operate with a sliding mechanism concealed in the 138 1/8 inch (3508 mm) wide door track.

Dimensional information of door hardware is available from manufacturer upon request.

**3.2.4 Fasteners:** Bolts and screws connecting aluminum members shall be stainless, hot-dipped galvanized or electro-galvanized steel.

**3.2.5 Gaskets:** Polyvinyl chloride acrylic, CAS No. 9002-86-2.

**3.2.6 Shims:** Acrylic shims for leveling bottom frame.

**3.2.7 Floor anchors:** 3/8 inch (9.5 mm) diameter Hilti Carbon Steel Kwik Bolt TZ (KB-TZ) with washer & hex nut installed in accordance with the manufacturer's instructions, with drilled hole depth and embedment depth in accordance with an evaluation report issued by an accredited evaluation service; Periodic or Continuous

Special Inspection is required in accordance with the evaluation report and spacing is four feet (1219 mm) maximum. Floor anchors may be installed into normal-weight or lightweight concrete in accordance with the evaluation report and as shown in Figure 6 of this report.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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### 3.2.8 Top track bracing from ALUR Wall Y-bracket to structural level above:

**Option 1:** 350S162-33 (1-5/8 inch x 3-1/2 inch, No. 20 gage) steel stud braces, at 1:1 angle, spaced eight feet (2438 mm) each side of panel and alternating such that panel is braced at four feet (1219 mm) maximum, as shown in Figure 5 of this report.

**Option 2:** No. 12 gage steel wires each side of panel, spaced four feet (1219 mm) feet maximum, at 1:1 angle, with a 350S162-33 (1-5/8 inch x 3-1/2 inch, No. 20 gage) steel stud vertical compression strut, spaced 12 feet (3658 mm) maximum.

## 4.0 DESIGN AND INSTALLATION

**4.1 Design:** When the wall system is installed in accordance with this report and the manufacturer's published instructions, the wall system resists the greater of the 5 psf transverse design load specified in IBC Section 1607.13, or the seismic design forces for nonstructural components in Seismic Design Categories A and B, where  $I_p > 1.0$ , and in Seismic Design Categories C to F required in accordance with IBC Section 1613.1.

**4.2 Installation:** Installation shall be in accordance with the IBC, this report and the manufacturer's published installation guide.

## 5.0 LIMITATIONS

The ALUR Wall System described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

**5.1** The system shall be manufactured, identified, and installed in accordance with the IBC, this report and the manufacturer's published installation instructions. Where conflicts exist the more restrictive shall govern.

**5.2** The maximum partition height is 10 feet (3048 mm).

**5.3** Panel installation is limited to interior non-load-bearing applications.

**5.4** Glass panels shall be installed vertically.

**5.5** Wired, patterned, sandblasted, or non-vertical glass are outside of the scope of this report.

**5.6** Use of the panels to support furniture loads is outside the scope of this report.

**5.7** Lateral bracing of the ALUR Wall System ceiling track shall be independent of the lateral bracing support of the building's ceiling grid, and shall conform to the requirements of this report, unless otherwise justified by a

design professional and approved by the code official.

**5.8** Anchorage of the ALUR Wall System floor track shall conform to the requirements of this report, unless otherwise justified by a design professional and approved by the code official.

**5.9** In Essential Facilities ( $I_p = 1.5$ ), the maximum  $S_s$  mapped short period spectral acceleration is 2.13 for partition heights of 10 feet (3048 mm) and 2.59 for partition heights of 9.5 feet (2896 mm).

**5.10** In Seismic Design Categories A and B where  $I_p = 1.0$ , the minimum panel width shall be 6 inches (152 mm) wide with one floor anchor. In Seismic Design Categories A and B where  $I_p > 1.0$  and Seismic Design Categories C to F, the minimum panel width shall be 14 inches (356 mm) wide with a minimum of two floor anchors, except in cases where the supporting floor slab consists of 4 inch (102 mm) minimum thickness normal-weight concrete, in which case the minimum panel width may be 6 inches (152 mm) wide with one anchor.

## 6.0 SUBSTANTIATING DATA

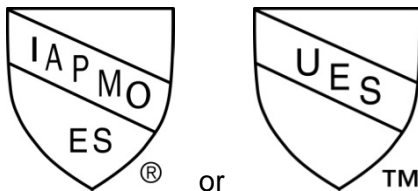
Structural calculations in accordance with IBC.



## 7.0 IDENTIFICATION

7.1 Identification of the system components is made on the packaging of the individual components, labeled "ALUR".

7.2 **Glazing Identification:** Each pane shall bear the glass manufacturer's permanent identification mark designating the manufacturer, type and thickness of the glass, and indication of the safety glazing standard(s) including "16 CFR 1201-I, II". The identification mark shall be acid etched, sand blasted, ceramic fired, laser etched, embossed or a type of that, once applied, cannot be removed without being destroyed.



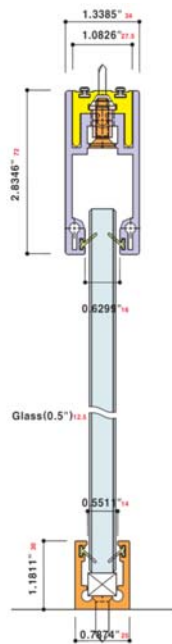
or  
**IAPMO ER #193**

**Brian Gerber, P.E., S.E.**  
Vice President, Technical Operations  
Uniform Evaluation Service

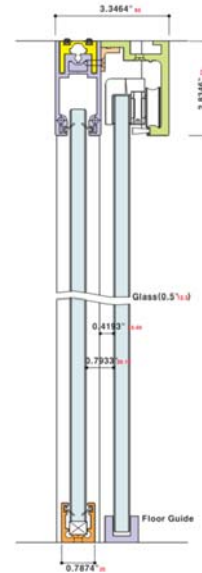
**Richard Beck, PE, CBO, MCP**  
Vice President, Uniform Evaluation Service

**GP Russ Chaney**  
CEO, The IAPMO Group

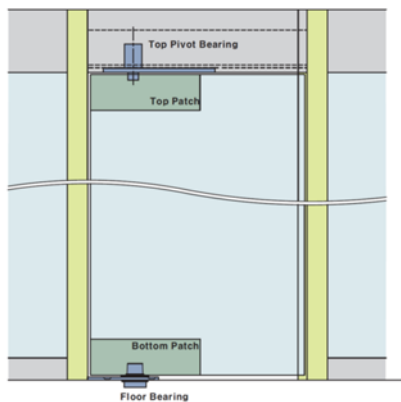
For additional information about this evaluation report please visit  
[www.uniform-es.org](http://www.uniform-es.org) or email at [info@uniform-es.org](mailto:info@uniform-es.org)



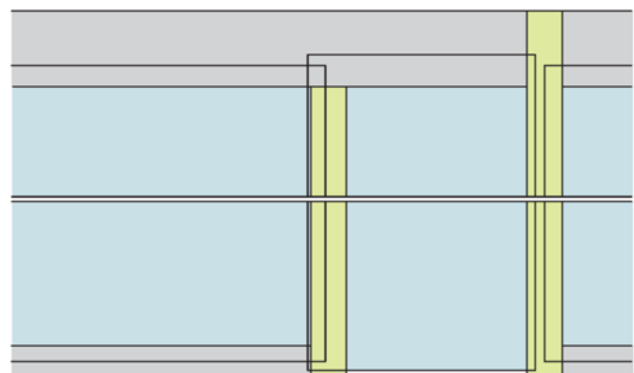
**FIGURE 1 – TYPICAL CROSS-SECTION OF GLAZED WALL PANEL**



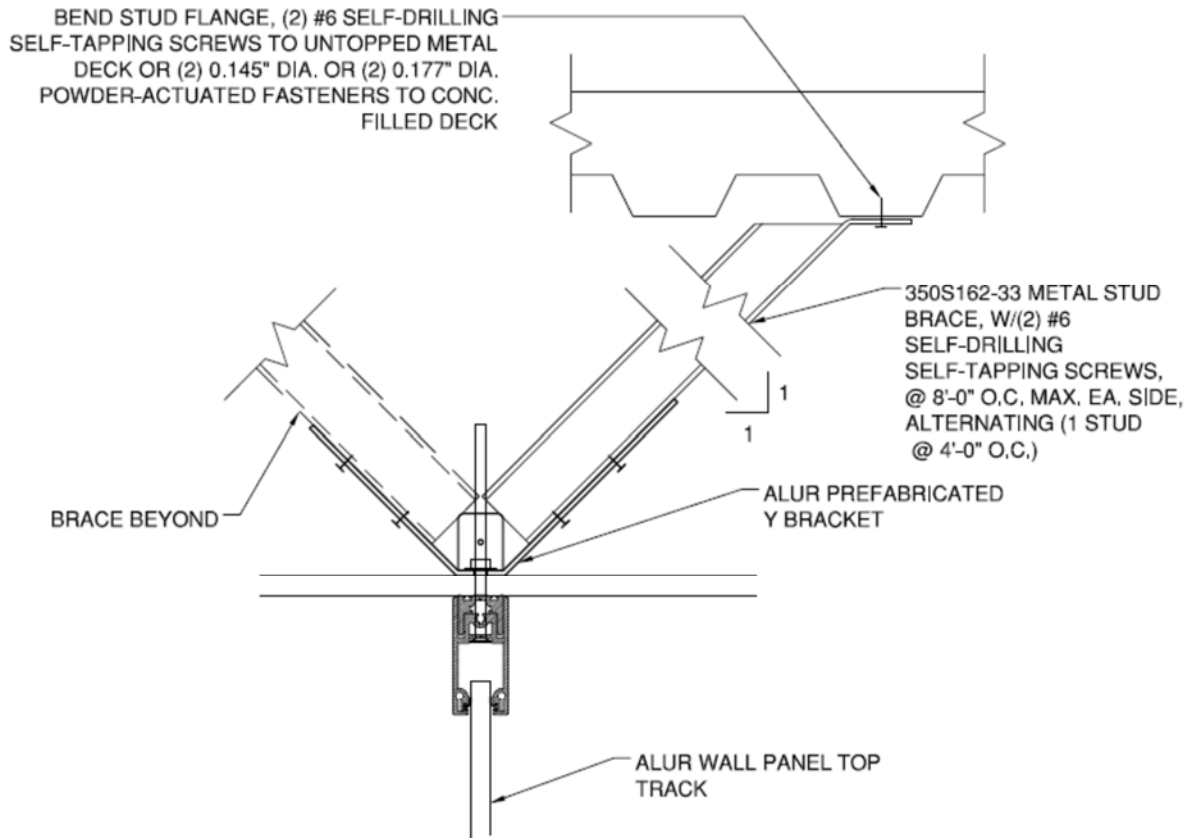
**FIGURE 2 – TYPICAL CROSS-SECTION OF SLIDING DOOR**



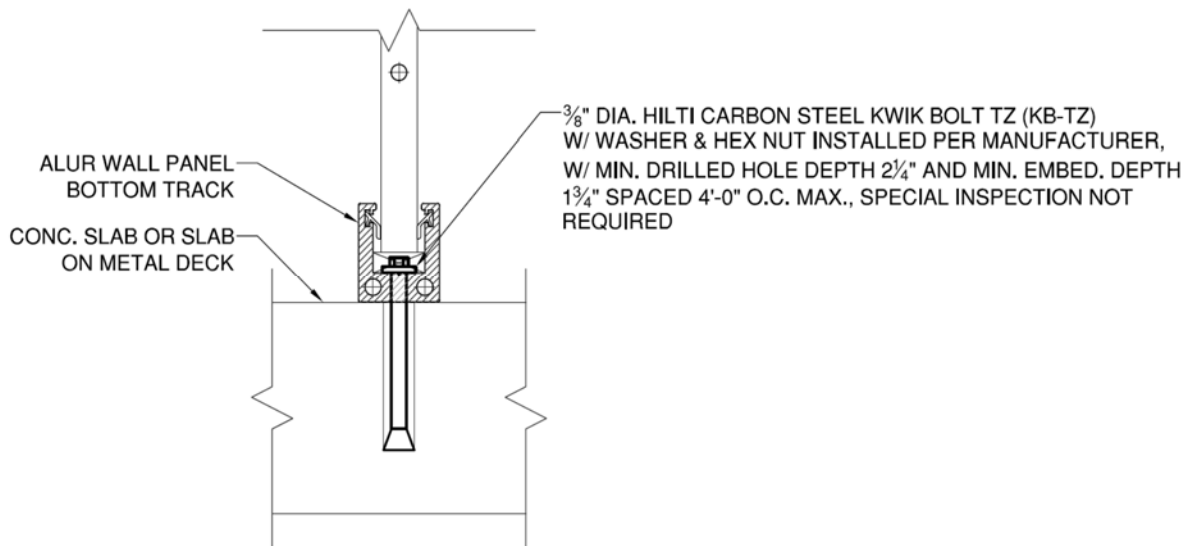
**FIGURE 3 – TYPICAL ELEVATION OF GLASS PIVOT DOOR**



**FIGURE 4 – TYPICAL ELEVATION OF SINGLE GLASS SLIDING DOOR**



**FIGURE 5 – TOP TRACK BRACING**



**FIGURE 6 – BOTTOM TRACK ANCHORAGE**



## CALIFORNIA SUPPLEMENT

### EVALUATION SUBJECT:

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CSI Section: 10615—Demountable Partitions

## 1.0 SCOPE OF EVALUATION

### 1.1 Compliance with the following codes:

- 2013 California Building Code (CBC)

### 1.2 Evaluated in accordance with:

- CBC Chapter 16
- CBC Chapter 20
- CBC Chapter 24

### 1.3 The safety glazing complies with:

- Consumer Product Safety Commission (CPSC) 16 CFR 1201 Safety Standard for Architectural Glazing Material, Category II
- ANSI Z97.1, Class A

### 1.4 Properties assessed:

- Structural

## 2.0 FINDINGS

The ALUR Wall System described in IAPMO UES Evaluation Report ER-193 complies with the 2013 CBC.

Design and Installation shall be in accordance with ER-193 and Chapters 14 and 25 of the CBC.

## ADDITIONAL REQUIREMENTS

1. For DSA and OSHPD projects, compliance with CBC Section 2403.2.1 is required. Detailed construction documents and detailed shop drawings and analysis assuring safe performance for the specific installation shall be prepared by a Structural Engineer registered in the State of California and submitted to the enforcement agency for approval.

## SUBSTANTIATING DATA

Structural calculations in accordance with CBC.