Genius® Architectural Walls

- Superior design
- Clever acoustics
- Environmentally friendly
Superior Design.
From powerful to subdued, Genius walls can achieve any “look” without sacrificing flexibility. Unlimited aesthetic options let you design storefronts, private offices, conference rooms’ dividing walls and more with sleek lines and beautiful finishes. Specify frames in anodized aluminum, veneer or powdercoat paint. Select single-glazed or double-glazed glass panels; add blinds for privacy. Finish the look with panels in fabric, vinyl, powdercoat paint, veneer or a writable/erasable surface. Genius walls can be rearranged at a moment’s notice and removable shells offer easy access to electrical/data. It’s flexibility without costly disruptions or the need for new materials.

Clever Acoustics.
With an unprecedented Sound Transmission Class (STC) of 44-48 on solid panels, Genius walls control sound transmission and provide more effective acoustical privacy than standard drywall and comparable wall products.

Wall Construction Comparison

<table>
<thead>
<tr>
<th>Wall Type</th>
<th>STC</th>
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</thead>
<tbody>
<tr>
<td>1/4&quot; Tempered Glass Panels</td>
<td>31</td>
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<tr>
<td>1/4&quot; Laminate Glass Panels</td>
<td>34</td>
</tr>
<tr>
<td>4&quot; Drywall with 1/4&quot; Gypsum Sheets</td>
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<td>1 1/2 mm Laminate Glass Panels – Genius</td>
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<td>Double-glazed Panel – 1/4&quot; Tempered Glass</td>
<td>Genius Option</td>
</tr>
<tr>
<td>Other Wall Products (Solid Panels)</td>
<td>38-39</td>
</tr>
<tr>
<td>4&quot; Drywall with 1/4&quot; Gypsum Sheets</td>
<td>42</td>
</tr>
<tr>
<td>KI Genius Wall Solid Panels</td>
<td>44-48</td>
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<tr>
<td>4&quot; Face brick, mortared together</td>
<td>45</td>
</tr>
<tr>
<td>6&quot; Lightweight concrete block, two coats of paint each side</td>
<td>46</td>
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</tbody>
</table>

Environmentally Friendly.
Genius walls comply with the U.S. Building Council’s Green Building Design and LEED™ (Leadership in Energy and the Environment Design). Genius walls support your green design:
- Up to 99% recyclable, post-consumer (see chart)
- Up to 71% recyclable, pre-manufacturing
- Up to 99% reusable (see chart) – and, only 4.5 basic parts, the lowest of all wall products
- Inexpensive glass panels to maximize daylighting
- GreenGuard tested and approved for low VOC emissions (solid panel with vinyl or fabric, glass panel and transom door unit)
- Powdercoat paint and anodized finishes, which also emit low VOC levels
- Certified wood options
- Aluminum base covers replace non-friendly PVC
- Recyclable, inorganic gypsum-free steel shells that resist mold growth
- Built-in slotted standards for hang-on components reduce additional materials

- Removable shells extend the life cycle of the product and also allow easy finish changes in the field
- Movable walls produce less debris during initial construction and with each configuration, which saves the environment and money – no $1+ /sq. ft. charge as with drywall disposal
- No dust issues as with drywall
- Compressed construction schedule means fewer commutes to the job site, lower power usage, etc.

10’ Wall — Genius Wall
1 Year 44% moved. 100% is reusable.
2 Years Another 44% moved. 100% is reusable.

10’ Wall — Drywall
1 Year 44% moved. 0% is reusable.
2 Years Another 44% moved. 0% is reusable.

Architectural walls also enjoy a 7.5-year depreciation versus 39 years for drywall, leading to a lower life cycle cost.

**Panel/Door Details**

*All panels are 3 1/2" thick. Single-glazed glass can be 1/4" to 3/8" thick. Ceiling height up to 120", plus stackable above or below. Solid panels 7 1/2" to 60" (vinyl up to 48”). Glass panels 7 1/2" to 60”.

### Post Details

- **FM Corner**
- **FM 2-way**
- **FM 3-way**
- **FM 4-way**
- **End Post**
- **BM Corner**
- **BM 3-way - A**
- **BM 3-way - B**
- **BM 2-way or Inline**
- **BM 4-way**
- **Pivot Door/Panel Inline**
- **Wall Post**
- **All Posts**
- **Connections**

### Miscellaneous

- **Hardwire Electrical**
- **Pent Hardwire**
- **Spider Electrical**
- **Leaf Dimensions**
PART 1 - GENERAL

1. RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 - Specification Sections, apply to this Section.

B. Specifications throughout all Divisions of the Project Manual are directly applicable to this Section, and this Section is directly applicable to them.

2. DESCRIPTION OF WORK

A. This Section includes the following:

1. The extent of the demountable/united panel partitions as shown on the drawings, and as specified herein.

2. To provide all materials, labor, and equipment to install demountable or movable partitions. The movable wall system shall offer maximum flexibility and reusability to accommodate frequent changes in the partition system without damage to partitions or modifications to or addition of structures as ceilings, walls, and floors. The factory assembled system must be utilized (not stick built), non-progressive and modular to provide full individual panels from a location without disturbing adjoining units and providing interchangeability of panels and door units on the same module.

3. The system can offer a single center reveal design with optional concealed vertical panel connectors and U-channels are used.

4. Panel Thickness: Manufacturer's standard, 3 ½” thickness.

5. The factory assembled movable walls should be very flexible to accommodate the effects of gravity loads and the following loads and stresses within limits and conditions indicated:

   - Load Bearing Capacity of Panel: Not less than 70 psi, 1.175 kPa, horizontal. See drawings for specific details. (See Section 03, Table 06).

6. Transverse Load Capacity of Panel System: Lateral deflection of not more than 1/240 of the overall span when tested under a uniformly distributed load of 3 lbs, 12.44 kg/m, according to ASTM E 72-98.

7. Structural Performance: Provide demountable partitions capable of withstanding the effects of gravity loads and the following loads and stresses within limits and conditions indicated:

   - Load Bearing Capacity of Panel: Not less than 70 psi, 1.175 kPa, horizontal. See drawings for specific details. (See Section 03, Table 06).

   - Transverse Load Capacity of Panel System: Lateral deflection of not more than 1/240 of the overall span when tested under a uniformly distributed load of 3 lbs, 12.44 kg/m, according to ASTM E 72-98.

8. Fire Protection: Provide demountable partitions capable of withstanding the effects of fire, smoke, and the following loads and stresses within limits and conditions indicated:

   - Load Bearing Capacity of Panel: Not less than 70 psi, 1.175 kPa, horizontal. See drawings for specific details. (See Section 03, Table 06).

9. Load Bearing Capacity of Panel System: Lateral deflection of not more than 1/240 of the overall span when tested under a uniformly distributed load of 3 lbs, 12.44 kg/m, according to ASTM E 72-98.

10. Structural Performance: Provide demountable partitions capable of withstanding the effects of gravity loads and the following loads and stresses within limits and conditions indicated:

   - Load Bearing Capacity of Panel: Not less than 70 psi, 1.175 kPa, horizontal. See drawings for specific details. (See Section 03, Table 06).

   - Transverse Load Capacity of Panel System: Lateral deflection of not more than 1/240 of the overall span when tested under a uniformly distributed load of 3 lbs, 12.44 kg/m, according to ASTM E 72-98.

11. Water Resistance: Provide demountable partitions capable of withstanding the effects of water, moisture, soiling, extreme temperatures, and the following loads and stresses within limits and conditions indicated:

   - Load Bearing Capacity of Panel: Not less than 70 psi, 1.175 kPa, horizontal. See drawings for specific details. (See Section 03, Table 06).

   - Transverse Load Capacity of Panel System: Lateral deflection of not more than 1/240 of the overall span when tested under a uniformly distributed load of 3 lbs, 12.44 kg/m, according to ASTM E 72-98.

12. Sound Transmission: Provide demountable partitions capable of withstanding the effects of sound transmission and the following loads and stresses within limits and conditions indicated:

   - Load Bearing Capacity of Panel: Not less than 70 psi, 1.175 kPa, horizontal. See drawings for specific details. (See Section 03, Table 06).

   - Transverse Load Capacity of Panel System: Lateral deflection of not more than 1/240 of the overall span when tested under a uniformly distributed load of 3 lbs, 12.44 kg/m, according to ASTM E 72-98.

13. Qualifier Assurance: Installations by a designer who has successfully completed demountable partitions installations similar in material, design, and extent to that specified for this Project and is mutually accepted by the manufacturer and the customer.

B. Performance Bond: The successful demountable manufacturer should have the following:

   - At least 5 years of demountable wall experience.

C. Structural Performance: Provide demountable partitions capable of withstanding the effects of gravity loads and the following loads and stresses within limits and conditions indicated:

   - Load Bearing Capacity of Panel: Not less than 70 psi, 1.175 kPa, horizontal. See drawings for specific details. (See Section 03, Table 06).

   - Transverse Load Capacity of Panel System: Lateral deflection of not more than 1/240 of the overall span when tested under a uniformly distributed load of 3 lbs, 12.44 kg/m, according to ASTM E 72-98.

D. Sound Control: Solid panels shall provide an overall sound transmission class (class not less than 70) of less than 35 dB, horizontal. Factory assembled movable walls shall be less than 35 dB, horizontal, when tested according to ASTM E 336 and E 518 and the following loads and stresses within limits and conditions indicated:

   - Load Bearing Capacity of Panel: Not less than 70 psi, 1.175 kPa, horizontal. See drawings for specific details. (See Section 03, Table 06).

   - Transverse Load Capacity of Panel System: Lateral deflection of not more than 1/240 of the overall span when tested under a uniformly distributed load of 3 lbs, 12.44 kg/m, according to ASTM E 72-98.

E. Fire Resistance: Provide demountable partitions capable of withstanding the effects of fire, smoke, and the following loads and stresses within limits and conditions indicated:

   - Load Bearing Capacity of Panel: Not less than 70 psi, 1.175 kPa, horizontal. See drawings for specific details. (See Section 03, Table 06).

   - Transverse Load Capacity of Panel System: Lateral deflection of not more than 1/240 of the overall span when tested under a uniformly distributed load of 3 lbs, 12.44 kg/m, according to ASTM E 72-98.

F. Environmental Information:

   - C. Samples:

     - 1. Connector Type: [Pliable PVC recessed]
     - 2. Connector Type: [Shallow]
     - 3. Connector Type: [Flush]
     - 4. Connector Type: [Seamless]

   - A. Panel Thickness: 3 ½” thickness.

   - B. LEED credit MR 4.1 or 4.2, Recycled Content: Product data indication of percentages by weight of post-consumer and post-industrial recycled content for products that exceed the 20% recycled content requirement established by the given recycled content ingredient.

   - C. Solid Panels With Steel Substrate: 8.89cm (3 ½”) thick and consisting of an aluminum extruded frame construction, two removable panel shell assemblies each composed of one sheet of 22-gauge steel glued to vertical/horizontal liftriders and splices. The panels shall be provided with integral kick plates and a flexible kick plate. Noticeable variations in the same piece are not acceptable. Variations in appearance that do not accept."