

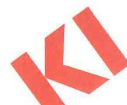
Genius® Full-Height Movable Walls ■

10615/KIA  
BuyLine 4792



Genius® Full-Height Movable Walls.

- Superior design.
- Clever acoustics.
- Environmentally friendly.



WORKING  
FOR  
YOU



**Genius® Movable Walls. The intelligent solution to room reconfiguration.**

**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 on solid panels, Genius walls control sound transmission and provide more effective acoustical privacy than standard drywall and comparable wall products.

Wall Construction Comparison	STC
1/4" Tempered Glass Panels	31
1/4" Laminate Glass Panels	34
4" Drywall Wall with 5/8" Gypsum Sheets on each side – no insulation	36
11 mm Laminate Glass Panels – Genius Option	36
Double-glazed Panel – 1/4" Tempered Glass – Genius Option	36
Other Wall Products (Solid Panels)	38-39
4" Drywall Wall with 5/8" Gypsum Sheets on each side – with insulation	42
<b>KI Genius Wall Solid Panels</b>	<b>44</b>
4" Face brick, mortared together	45
6" Lightweight concrete block, two coats of paint each side	46

**Environmentally Friendly.**

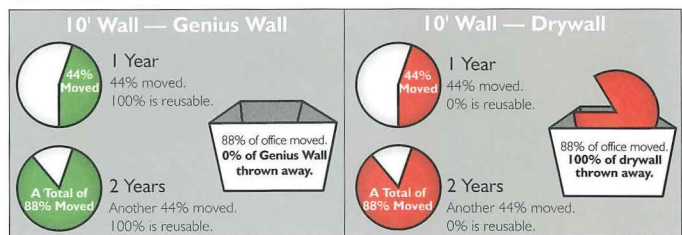
Genius walls comply with the U.S. Building Council’s Green Building Design and LEED™ (Leadership in Energy and the Environment Design). Genius walls support your green design:

- 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.

**Genius Wall is reusable.**



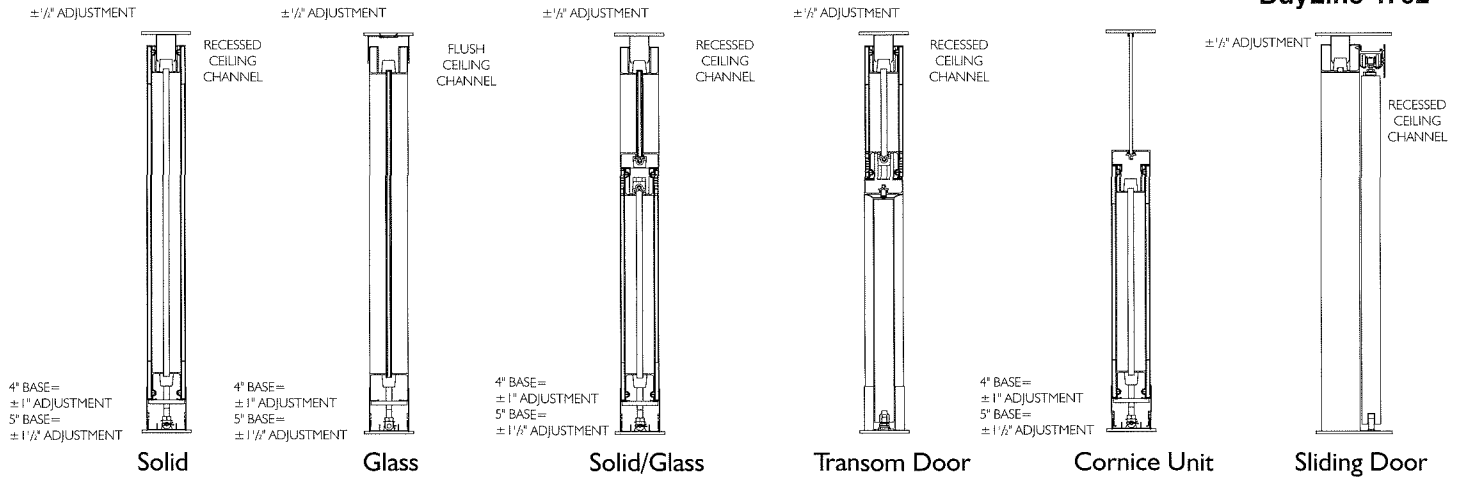
**Genius Wall is recyclable.**

	Genius Wall Glass Panel	Genius Wall Glass Panel	Genius Wall Solid Panel (Powder Paint)	Genius Wall Solid Panel (Powder Paint)	Genius Wall Solid Panel (Fabric/Vinyl)	Genius Wall Solid Panel (Fabric/Vinyl)
	Percent of overall product weight	Recycling ability of product after use	Percent of overall product weight	Recycling ability of product after use	Percent of overall product weight	Recycling ability of product after use
Overall		99%		97%		93%
Aluminum	37%		70%	100%	70%	100%
Steel	1%	99%	23%	99%	20%	99%
Tackable Surface	0%		0%		0%	
Panel Fabric	0%		0%		5%	0%
Corrugated Packaging	1%	100%	1%	100%	1%	100%
Plastic	0%		2%	0%	1%	0%
Paint	Less than 1%	0%	2%	0%	Less than 1%	0%
Fiberglass (Insulation)	0%		2%	100%	2%	100%
Glass Addition	60%	100%	0%		0%	

Movable walls also enjoy a 7.5-year depreciation versus 39 years for drywall, leading to a lower life cycle cost. And, the new May 2003 tax law bonus provides depreciation increases to a total of 64.29% in the first year versus 2.56% for drywall.

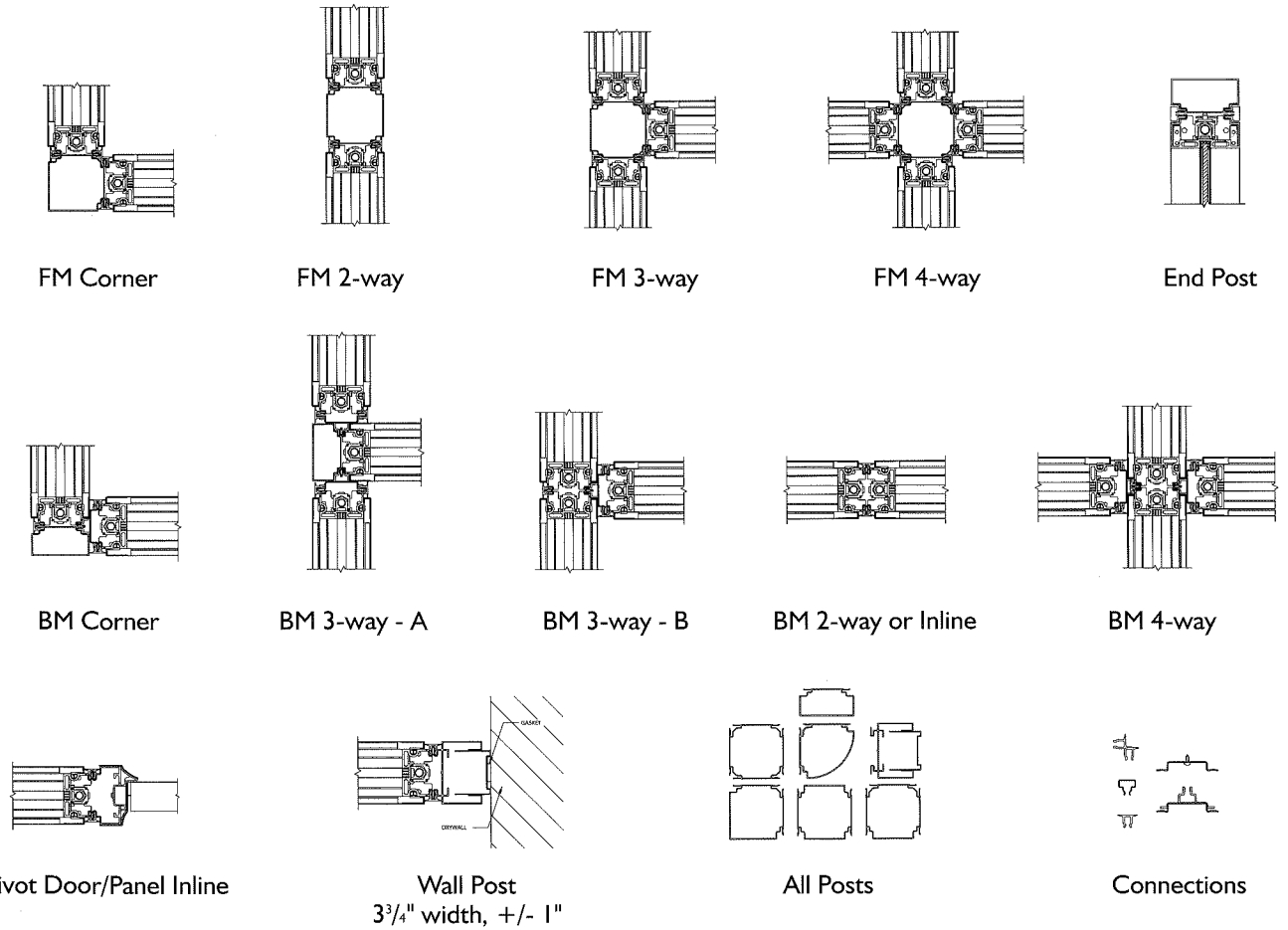
**Panel/Door Details\***

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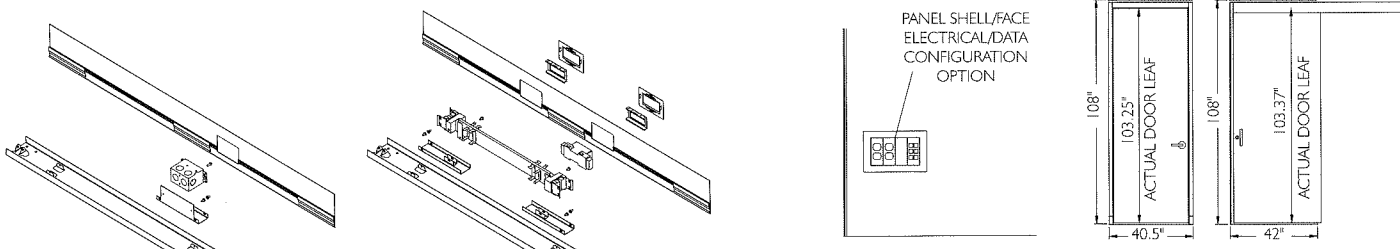


\*All panels are 3 1/2" thick. Single-glazed glass can be 1/4" to 3/8" thick. Ceiling height up to 120", plus stackable above or below. Solid panels 7 1/2" to 60" (vinyl up to 48"). Glass panels 7 1/2" to 60".

**Post Details**



**Miscellaneous**





# Genius® Full-Height Movable Walls — Specification Guide

## DEFINITION

The movable wall system shall offer maximum flexibility and reusability to accommodate frequent and quick relocation work without loss of materials, damage or modification to panels or to adjoining structures such as ceilings, fixed walls and floors. The system must be unitized, non-progressive and modular, allowing the removal of individual panels from any location without disturbing adjoining units and providing interchangeability of panels and door units on the same module.

The system can offer a single center reveal design with optional concealed slotting for wall-hung furniture components or a flush connector finished to match the panel to provide a monolithic

## PRODUCT PERFORMANCE CHARACTERISTICS

**Adjustability:** An adjustable, U-channel head assembly shall provide a  $\pm 1/2$ " adjustment at the ceiling. At the floor, a self-contained leveling glide system and a flush 4"-, or 5"-high base cover shall allow for an adjustment of  $\pm 1$ " for a 4" base and  $\pm 1 1/2$ " for a 5" base. Combined, this shall provide an overall vertical adjustment of  $\pm 1 1/2$ " for 4" and  $\pm 2$ " for 5" to compensate for ceiling and floor irregularities.

Where the wall system meets the building core walls, columns or window mullions, a telescopic, spring-loaded wall post or channel shall allow for a  $\pm 1$ " horizontal adjustment.

**Sound Control:** Solid panels shall provide an overall sound transmission class of not less than 44 STC rating in accordance with ASTM E-90-87 (ASTM E412-73).

**Fire Retardancy:** No flammable materials shall be used in the manufacture of the wall system.

Provide independent laboratory tests for surface-burning characteristics of panel finishes in accordance with ASTM E-84. Flame Spread: Class A for powdercoat finish and steel.

**Structural Performance:** Provide certification that the wall system panels meet the load-bearing capacity standards for hanging components of 7 pounds per linear inch when tested in accordance with BIFMA/ANSI x 5.6-1986, Section 5. Passed.

## PRODUCT DETAILS

**Ceiling Channels:** 18-gauge steel with closed cell light and sound seal gasket, factory-applied to the channels. T-bar clips or other suitable fastening devices shall be used to connect the channel to the ceiling grid, subject to owner's approval.

Ceiling channels are either recessed or flush. All voids shall be insulated with fiberglass. (Using flush ceiling channels prevents shell removal.)

**Solid Panels:** 3 1/2" thick and consisting of an aluminum extruded frame construction, two panel shell assemblies each composed of one sheet of 22-gauge steel glued to vertical/horizontal stiffeners and intermediate horizontal stiffeners, non-toxic fiberglass insulation, and the base assembly. Top of panel engages the ceiling channel. (Option: recyclable cotton insulation is available for an upcharge.)

Aluminum frames (including glass panels) as a standard will have cavities on each side to accommodate cabling. Field notching the horizontal frame members will also allow easy cable access from the ceiling or the floor. As an option, solid panel vertical frame posts can be slotted for hang-on furniture and the slots concealed by a dual durometer PVC gasket which is 1" wide and recessed from panel face or by a flush-to-panel face connector. Component bracketry is optional. Panels to contain integral, adjustable bottom connectors and the panel shells to be equipped with a mushroom-shaped extrusion that forms a compression fit with the vertical frame for easy removal from the frame structure.

Base assembly to consist of a hinged modular 16-gauge steel floor channel attached to the panel's steel leveling glides and equipped with integral, adjustable carpet grippers, and of 4"- or 5"-high continuous, snap-on base covers made of extruded aluminum (multiple colors). All voids to be insulated with fiberglass.

## FINISHES

**Solid Panels:** Steel parts, whether exposed or hidden, shall be subject to a five-stage power wash with phosphate and de-ionization treatment before high solid paints are applied. Upholstered panels shall have a pre-painted finish prior to vinyl or fabric application. Connection posts shall be finished to match adjacent panels. (Where indicated on drawings (or in the finish schedule), panels shall have the following finish(es):

**Powdercoat:** Manufacturer's standard colors or a special color match.

**Vinyl/Fabric:** Manufacturer's standard finishes or customer-specified materials and C.O.M. upon approval.

**Ceiling Channel:** Manufacturer's standard powdercoat paint colors or an optional special color match.

**Base Covers, Door & Glazing Frames:** Clear anodizing, wood veneer wrapped, or powdercoat paint finish in manufacturer's standard colors or matching an optional custom paint color per specifications.

**Panel-To-Panel Connectors:** Standard KI colors (recessed) or vinyl (flush), fabric (flush), powdercoat painted (flush), veneer wrapped (flush), clear anodized (flush), veneer wrapped (shallow), vinyl (shallow) and fabric (shallow).

**Doors & Wood Panels:** Natural veneers with factory finish, plastic laminate or painted as specified.

aesthetic. The head detail is either recessed or flush. The base assembly with an integrated leveling system shall be permanently attached to the panel. Detached and loosely shipped floor tracks and leveling components shall not be permitted.

The solid panels shall be available in a choice of finishes to include powdercoated steel, vinyl-covered steel or fabric-covered steel. Panels are stackable to accommodate ceiling height changes and panel type changes (i.e., solid/glass). Panel shells shall be removable and interchangeable in the field without dismantling as complete units.

Provide independent laboratory data to certify that the wall system panels pass the uniform transverse load (lateral deflection) test of not exceeding deflection of 1/240 of the overall span under a load of 5 pounds per square foot, in accordance with ASTM E-72-80.

**Electrical & Communications:** Typically, power/communications cables and components shall be provided and field-installed (hardwired) by the electrical contractor. Wiring access shall be through the ceiling channel, and distribution shall run vertically or horizontally anywhere within the panel, from panel to panel or through the base and ceiling wire ways. Electrical outlets shall be located flush in the base or in the panel shell.

**Factory-installed Option # 1:** Based on local codes and ordinances, a modular pre-wired system may be specified, in which case, the base cover is 5" high to provide sufficient floor adjustment. Option: Based on local codes and ordinances, a pre-wired 10-wire system (6-2-2) may be specified, in which case, the base cover is 5" high to provide sufficient floor adjustment. Final hardwiring by others.

**Factory-installed Option #2:** Electrical box(es), cutout(s) and 1/2" flexible conduit pre-installed in the factory in the panel shell. Final hardwiring and other components by others.

**Glass Panels:** Aluminum extruded frame construction, head and base assemblies identical to solid panels. Single-glazed panels shall be 1/4"- to 3/8"-thick glass (specify type) and 1/4" thick for double-glazed panels. No protruding glazing beads or removable stops are evident. Glass moldings are made of extruded aluminum. Glass is shipped factory-installed.

**Solid/Glass Panels:** Aluminum extrusion frame construction, top and base assemblies identical to solid panels with solid portion height as specified on the drawings. Glazed portion shall be (1/4"- to 3/8"-thick single-glazed, 1/4"-thick double-glazed, specify type) unitized and framed in the same manner as full-height glass panels. Glass is shipped factory-installed.

**Wall Connection Posts:** Aluminum extrusions insulated with fiberglass. Closed cell gasket to be applied to wall posts. Outer U-channels are powdercoat painted, anodized, wood veneer wrapped, or upholstered to match panel finishes. Inner U-channels are powdercoat painted.

**Corner, Inline, 3-way and 4-way Connections:** Aluminum extrusions are powdercoat painted, anodized, wood veneer wrapped or upholstered to match panel finishes.

**Door Units:** Manufacturer's standard door frames and reversible pivot-hung bullnose doors. Door frames shall be (specify ceiling-height or transom-height) consisting of an aluminum extruded frame. The top pivot plate is incorporated into the horizontal frame; an adjustable bottom pivot is attached to the hinge jamb. A die-cast strike plate is recessed into the strike jamb.

Transom panels (if applicable) to have the same construction as the solid or glass panels.

Doors shall be 1 3/4" thick, 5-ply, solid core, mortised to receive passage or locksets or butt hinges. Door hardware except reversible pivot hinges, unless otherwise specified to be supplied by others.

## INSTALLATION

Install the wall system and accessories after floor construction and carpeting are completed, the suspended ceiling grid has been installed and other finishing operations, including painting, have been completed.

Install panel surfaces flat and with tight vertical and horizontal joints; with components assembled into a rigid structure, fitted to building conditions; straight and plumb with horizontal lines level.

Install wall system using concealed fastening devices and pressure-fit components that will not mar floor, wall and ceiling surfaces. Any alterations made to ceiling grid to install the partitions or to provide access for electrical, mechanical, or communications systems shall be made so as not to affect the structural integrity of the ceiling grid or be noticeable upon completion of the work.

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