

**advanced  
equipment**<sup>®</sup>

<sup>®</sup> CORPORATION

Established 1957

WORLD CLASS OPERABLE WALLS

Engaging in the design, manufacture, installation and service of operable walls for over 60 years, Advanced Equipment Corporation (AEC) is the most senior company currently producing this product in the USA.

AEC has designed and built special purpose equipment that allows it to produce welded steel panels of large size and with exceptional precision and quality.

AEC utilizes quality materials and advanced production methods, produces products with measurable performance - physical load testing and field sound testing. Our operable walls complies with the strength to resist forces generated by earthquakes thus insuring the Public's Safety.

The fabrication of panels entirely in welded steel enables AEC to offer 20 and 10 year limited warranty for the ALPHA® panel and 5 year limited warranty for the SIGMA® panel. This panel provides superior, field tested, sound stopping, performance, incombustible construction and durability in a wall that is easy to operate.

Our panels are designed to last the life of your building.

## Our Advantage

Manufacturing is the US

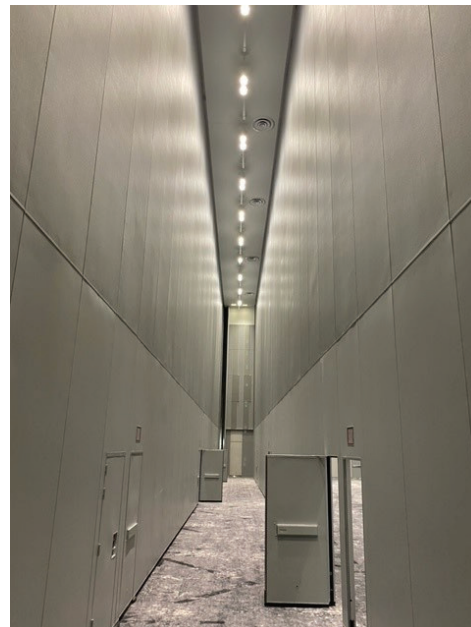
Competitive Pricing

Exceptional Customer Service

The Best in Guaranteed Sound Stopping

Sustainability

Deliver Quality



Jacob Javitz Convention Center  
New York, NY

Tijuana Convention Center  
Tijuana, Mexico





Merida Convention Center  
Merida, Mexico



Consolidadora Chilena  
Santiago, Chile

EDUCATION



Margarett Mead Elementary  
Sammamish, WA



Maltby Elementary  
Maltby, WA



Kimball Elementary  
Seattle, WA



BBVA Corporate University  
Lima, Peru

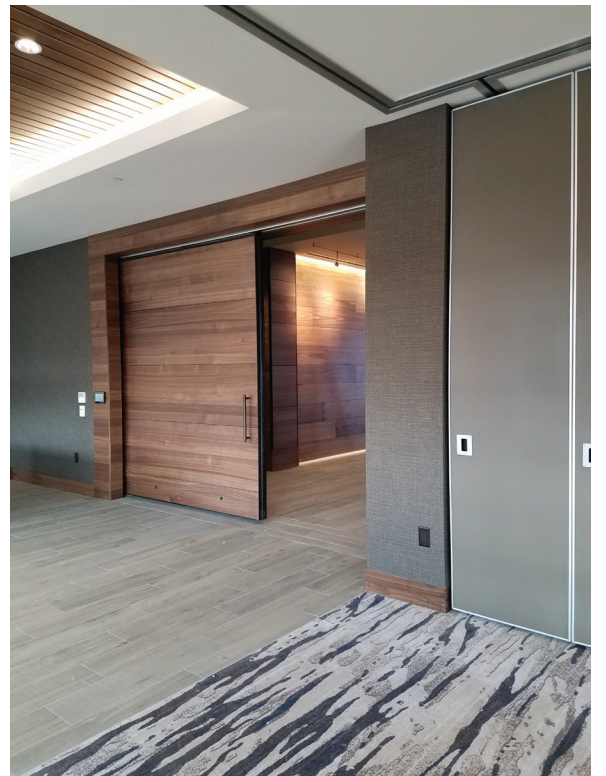


Sartori Elementary  
Renton, WA



Bailey Gatzert Elementary  
Seattle, WA





Hyatt Regency Lake Washington  
Renton, WA



Hotel W Reserva Conchal  
Guanacaste, Costa Rica



Hotel Estelar  
Cartagena, Colombia





Hotel Hilton Corferias  
Bogota, Colombia



Hotel Mandarin Oriental  
Santiago, Chile



Botanika Resort by Hilton  
Puerto Jimenez, Costa Rica





Gibbs Studio  
Malibu, CA



Oak Harbor CWF  
Oak Harbor, WA



Three Rivers Convention Center  
Kennewick, WA

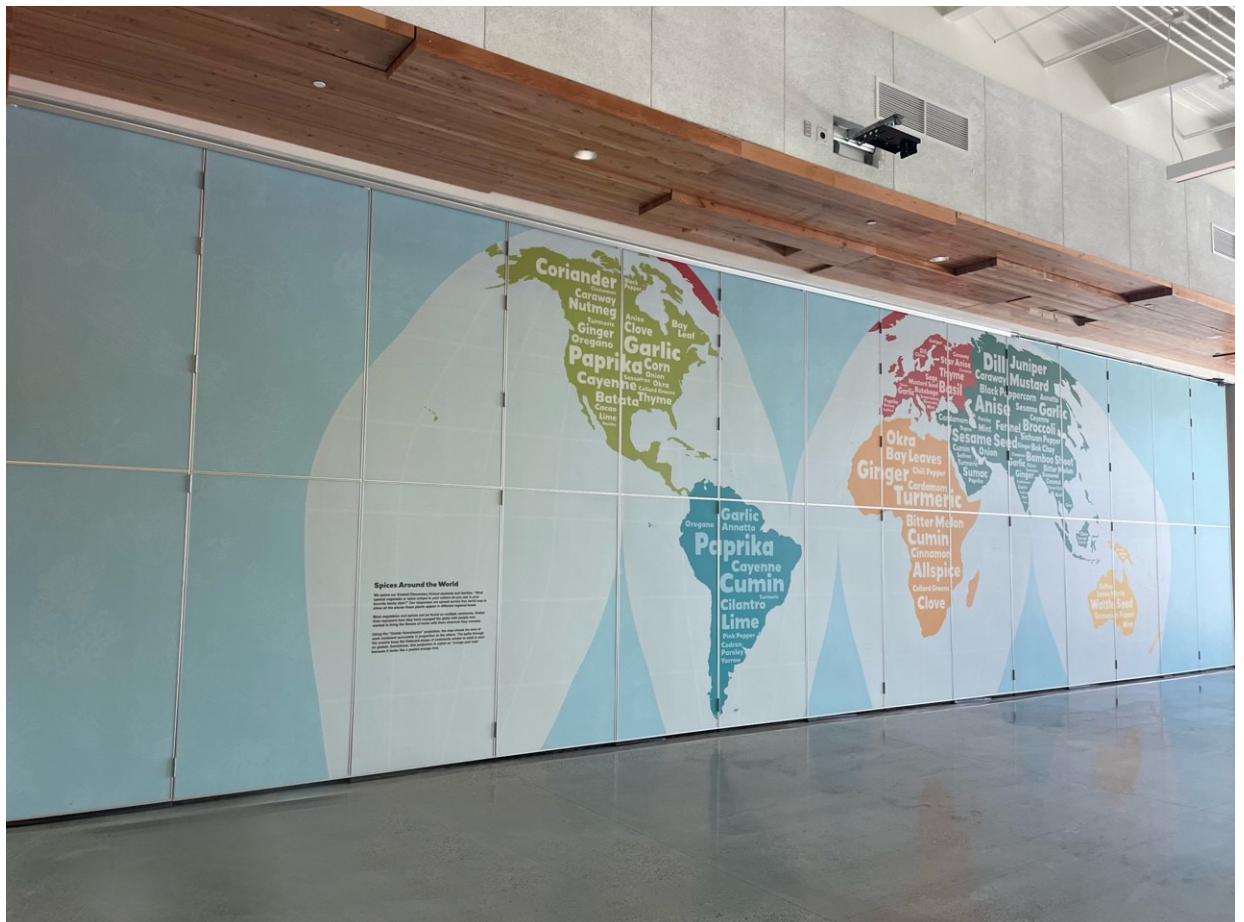


Daniel's Broiler Steak House  
Bellevue, WA



Puget Sound Energy  
Bellevue, WA

Kimball Elementary  
Kirkland, WA



AEC offers operable walls in a wide type of panel has been sound acoustical engineer in an independent established minimum NIC values for each type of panel should the and providing that the surrounding with the specified rating. The STC, (appropriate) can be found on the PANEL

#### NIC - NOISE ISOLATION CLASS

A single number rating delivered acoustical test procedure. The test pressure level differences on each adjusted to compensate for ambient value is made to compensate for room". Thus, the result is comparable. A NIC rating of 40 is considered with STC, the higher the rating the ping sound transmission.

Acoustical Engineers consider NIC and widely used method of determining effectiveness of operable walls. THE NIC testing actual product purchased for predicts Customer Satisfaction. A benefit of NIC is the ability to locate, not related to the operable wall. barrier above ceiling, or common

AEC considers field measurement of testing, to be the way to determine of operable walls. It is recommended to predict Customer Satisfaction. acoustical consultant.



range of panel constructions. Each tested for STC value by a licensed independent acoustical laboratory. AEC has which one can expect to achieve operable wall be field sound tested building construction is compatible NIC, and NRC values (where appropriate) can be found on the PANEL FEATURES CHART below.

from a standardized ASTM field measurement the most utilitarian is based on measurement of sound reducing effectiveness, being determined by field use by the Owner/Operator, usually further advantage of field measurement define and correct sound leakage. Examples would be holes in sound ductwork or conduit.

NIC, either optional or mandatory and control acoustical effectiveness. Learn more at [www.aec.com](#) or contact your

acoustical consultant.



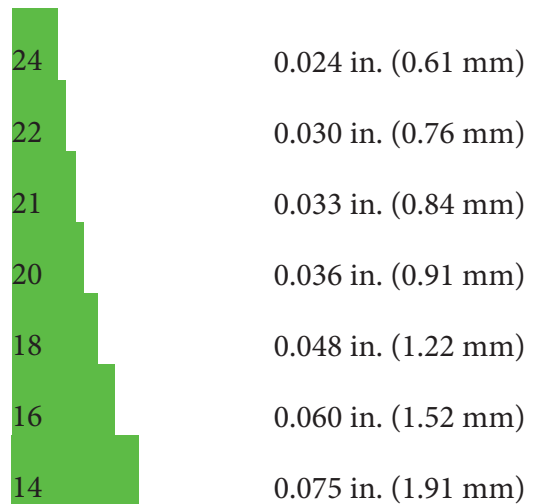
	PANEL TYPE	WEIGHT #/SQ. FT.	WEIGHT KG/M2	STC	NIC	NRC	PANEL THICKNESS	MAXIMUM WIDTH	MAXIMUM HEIGHT	PANEL FACE SHEET
ALPHA	S	8	39.1	53	40	-	3.5" (89 mm)	60" (1.52 M)	40 ft. (12.2 M)	16 ga. Steel Optional 14 ga.
	T	8.6	42	54	40	-	3.5" (89 mm)	60" (1.52 M)	40 ft. (12.2 M)	Minimum 16 ga. Steel
	U	9.2	45	53	40	-	4" (102 mm)	60" (1.52 M)	60 ft. (18.3 M)	14 ga. Steel
	P	11	53.8	49	40	0.65	4" (102 mm)	60" (1.52 M)	60 ft. (18.3 M)	14 ga. Perforated Steel
	X	9.5	46.5	53	40	-	3.5" (89 mm)	60" (1.52 M)	40 ft. (12.2 M)	14 or 16 ga. Steel (1-Hr. Fire Rated)
SIGMA	A	5.9	28	49	38	-	3.5" (89 mm)	54" (1.37 M)	18 ft. (5.49 M)	Minimum 20 ga. Steel
	B	6.4	31	50	39	-	3.5" (89 mm)	54" (1.37 M)	18 ft. (5.49 M)	Minimum 20 ga. Steel
	C	6.9	33	51	39	-	3.5" (89 mm)	54" (1.37 M)	25 ft. (7.62 M)	Minimum 18 ga. Steel
	D	7.4	36	52	40	-	3.5" (89 mm)	54" (1.37 M)	25 ft. (7.62 M)	Minimum 18 ga. Steel
With the exception of 'X' (fire rated), all ALPHA and SIGMA panels are suitable for electric operation.										
With the exception of 'X' (fire rated), all ALPHA and SIGMA panels are available as curved panels.										
ALPHA and SIGMA panels are one-piece steel weldments with face sheets welded to frame.										
Maximum heights are for individual panel operation and may be less for hinged groups or electric operation.										

**DISCOVER ADVANCED EQUIPMENTS  
MEASURABLE PERFORMANCE**

- 40 NIC guaranteed when SPECIFIED (ASTM E-336)
- One hand operation on 12 in. (305 mm) radius turn tracks
- Proof load testing of panel construction (ASTM E-72)
- Proof load testing of trolley plate anchorage
- 10-year limited warranty that does not exclude "normal wear and tear":
- Low maintenance cost, no replacement cost

Panel heights to 60 ft. (18.3 mm)  
Panel widths to 60 in. (1.52 m)

**UNITED STATES STANDARD GUIDE  
STEEL THICKNESS**



**APPROX. THICKNESS. INCHES AND MILLIMETERS  
(NTS)**

Thicker steel used by AEC produces superior panel strength.

## Compare Advanced Equipment ALPHA's features with it's competitors:

1. 14 ga. (0.075 in. 1.9 mm) steel top rail.
2. Minimum 16 ga. (0.060 in. 1.52 mm) steel frame members.
3. 16 ga. (0.060 in. 1.52 mm) or 14 ga. (0.075 in. 1.9 mm) steel FACE SHEETS WELDED TO FRAME MEMBERS with max. weld spacing of 8 in. (203 mm).
4. 16 ga. (0.060 in. 1.52 mm) steel stiffeners welded to interior surface of panel faces (no gypsum board).
5. 1/2 in. (12.7 mm) or 3/4 in. (19 mm) thick trolley plates welded into top rail. Anchorage withstands 10,000 pound (4545 kg) tensile load applied via pendant bolt.
6. 1 in. (25.4 mm) thick absorptive sound baffle inside of frame members.
7. Fiberglass absorptive fill.
8. Mechanical, retractable bottom seals with travel range from 2 in. (51 mm) standard to 6 in. (152 mm).
9. Protective, tongue and groove, extruded aluminum edge trim\*\* with acoustical seals.
10. Optional edge trim-finish wraps around vertical edge and is secured under edge trim\*\* that does not overlap panel face.
11. Multi-fin, fixed top seal.



Ⓒ GYP While gypsum board has many uses, it is not structural material. Buyers may unintentionally be investing in products that have an inherently short life span when accepting wall panels that utilize composite face sheets of thin sheet metal glued to gypsum board and then assembled to welded steel frames. The strength of these panels relies on the strength of the glue-bond between the paper skin and the core of the gypsum board. Contrast the impact resistance and short service life of these panels with ALPHA®, all steel, all welded panels whose life is to be measured in decades.

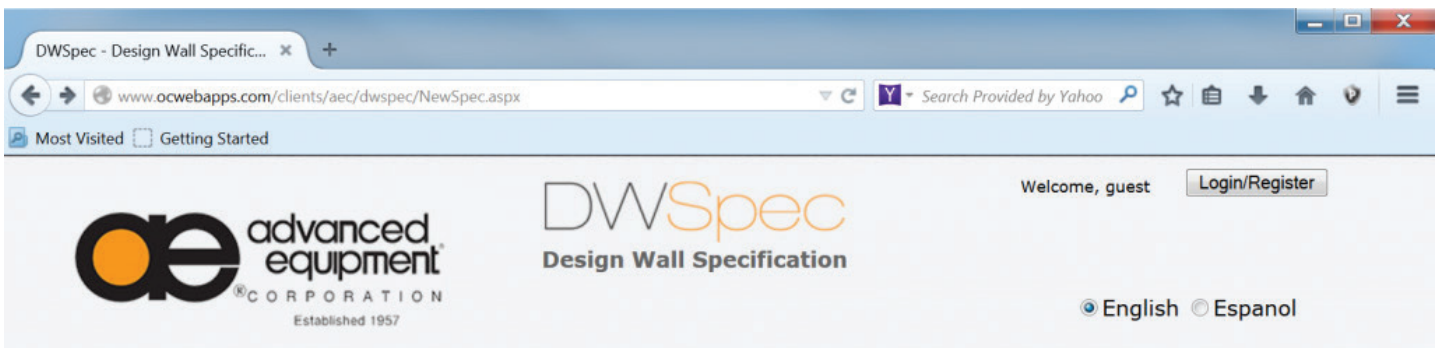


## Simple Point-and Click Specifications

Writing a valid operable wall specification is as easy as 1-2-3, with DWSpec, our new web-enabled Specification writing application. As a web-based program, it requires no special software or downloads, and will produce a single, complete, error-free specification of your project - even for projects that have multiple walls with differing characteristics.

All you have to do is enter the project name, the opening dimensions and the proposed location of the operable wall, and point and click your way to a valid, error-free specification. You can enter characteristics for multiple walls of differing sizes and get one comprehensive specification identifying each wall and its features by location. There is now no need to edit a spec or merge multiple specs in order to create a complete project specification.

The application constantly updates itself based upon your previous entries and presents only valid options for continued selection. Therefore, common errors such as opening height exceeding limits of panel construction, panel weight exceeding trolley capacity, panel finish inappropriate for panel type or panel construction inappropriate for configuration are completely eliminated. When generated, the finished specification is then formatted as a rich-text-format document, (such as Microsoft Word) and emailed to the user. Launch DWSpec™



### Design Wall Specification

This web-based application enables you to design a system of operable walls and create a spec based on your entries. Please enter a project name to get started.

Project Name:

Project Units:

Feet and Inches

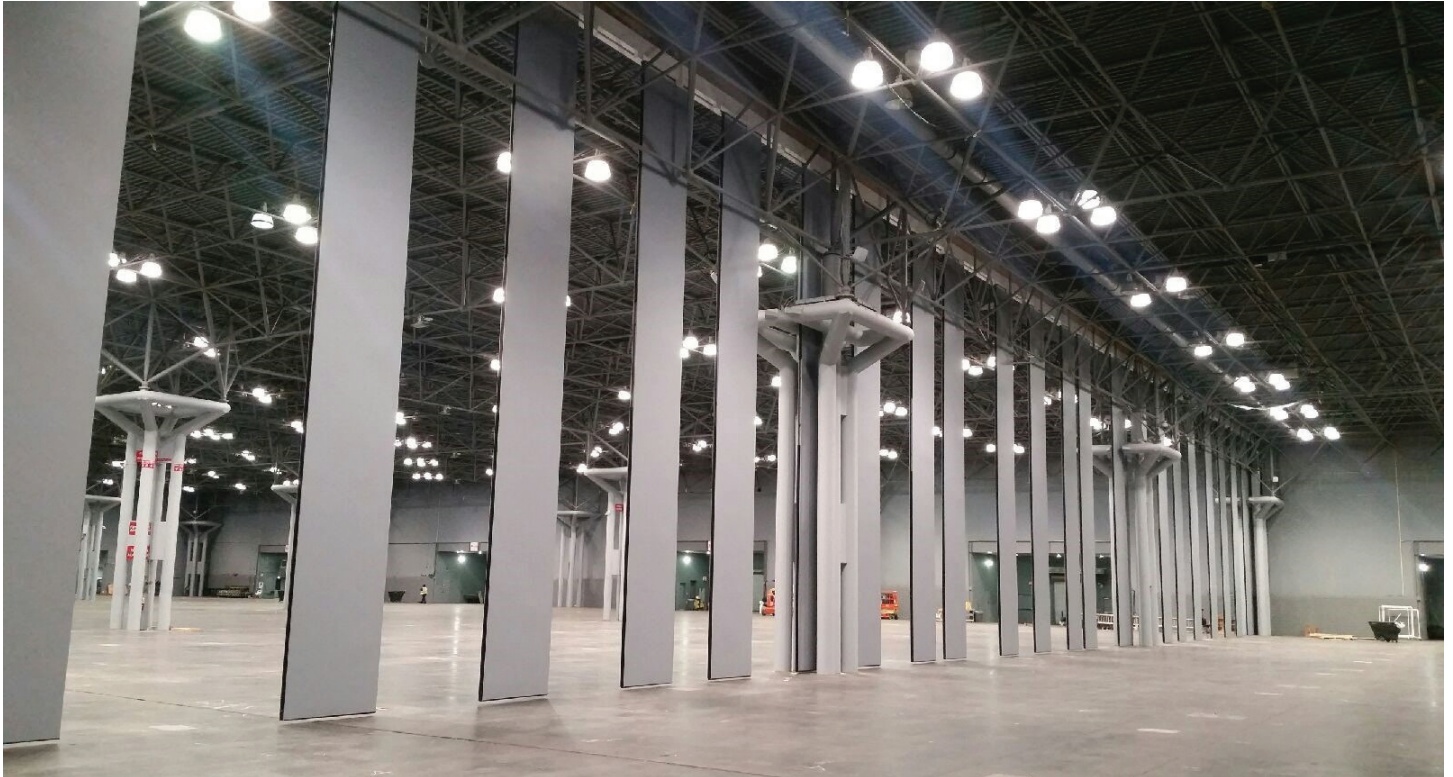
Meters

Copyright 2003-2016 -- Warning: This web application is protected by copyright law. Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and/or criminal penalties. Violators will be prosecuted to the fullest extent allowed by law.

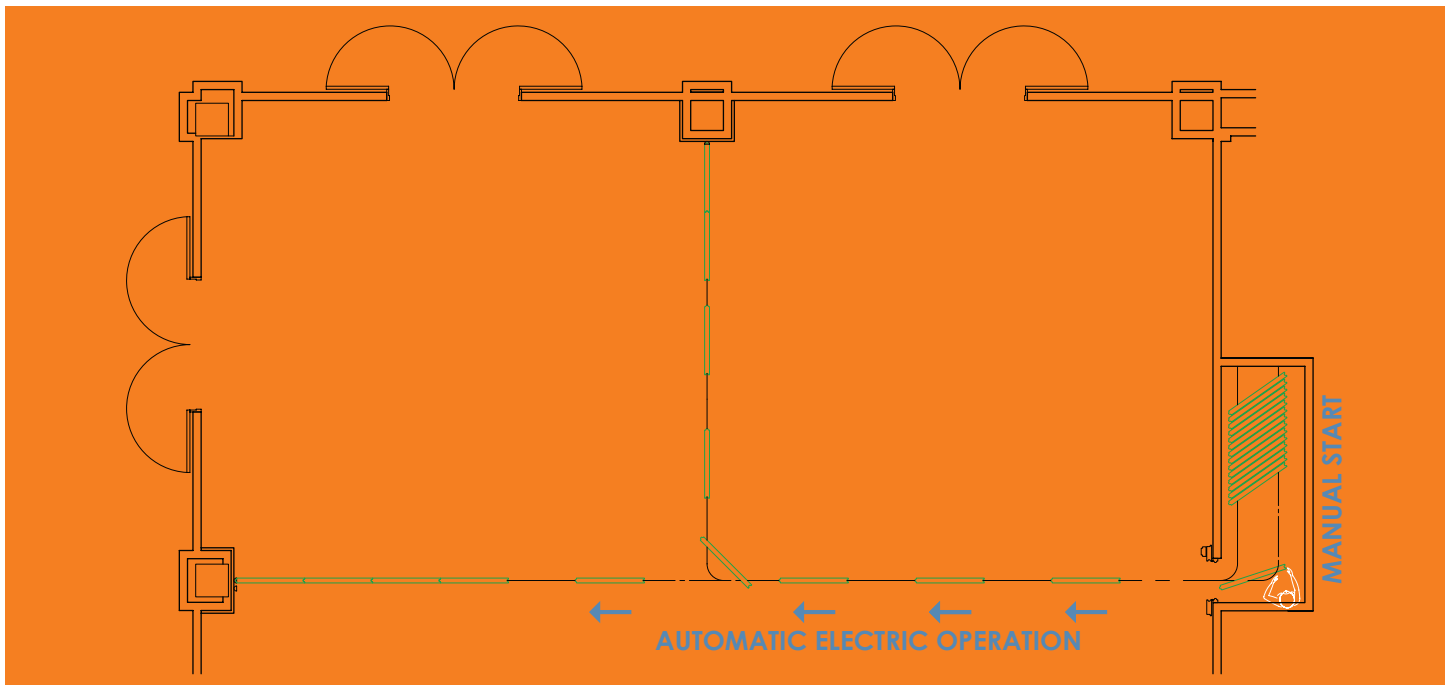
# SPACEMATIC

Introducing a unique method to move individual panels automatically to virtually any configuration required. Low voltage planetary gear motor drive controlled by programmable processor. A great time saver for large ballrooms and exhibit spaces. \* Patent pending.

See video on website [www.advancedequipment.com](http://www.advancedequipment.com)



Jacob Javitz Convention Center  
New York, NY



# Image

INCOMBUSTIBLE STEEL, QUALITY, STRENGTH, PERFORMANCE, and VALUE at COMPETITIVE PRICES. WELDED TUBE STEEL FRAME.

No floor track required for most models. Heights up to 30', widths for single panels 60", 96" and 180".

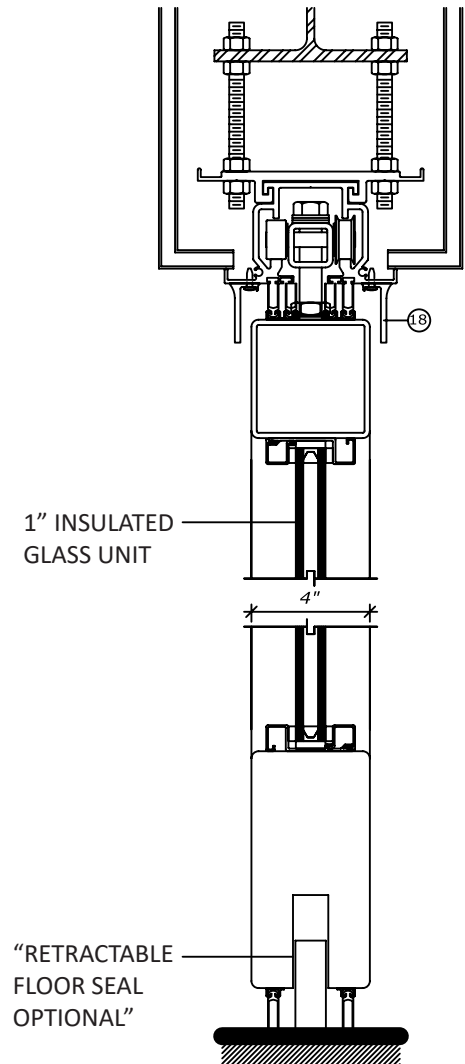
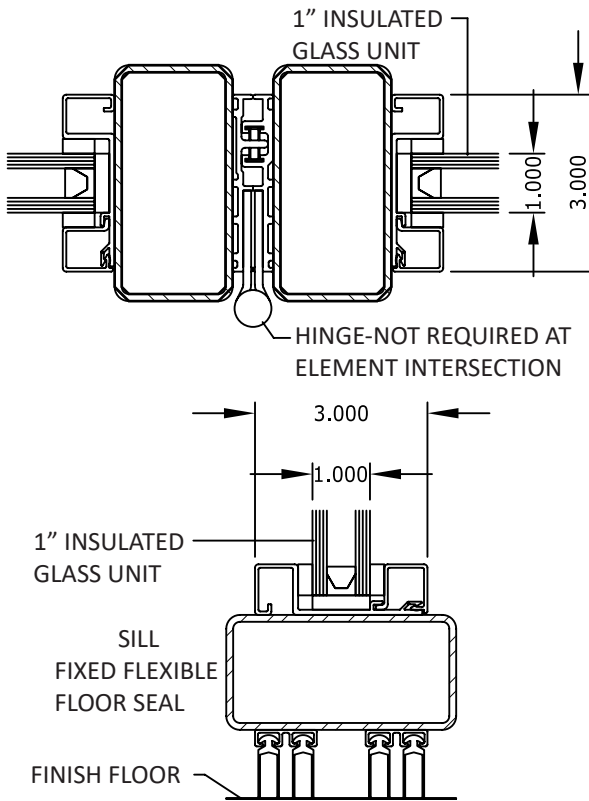
- Manual or Electric Operation
- Welded Tube Steel Frame
- Single or Double Glazed
- Panel Weight may range between 6.5 psf and 12 psf
- Powder-coat and Wood finish options
- Tynemic finish available



Seasons 52 Fresh Grill  
Los Angeles, CA



BAC Solarium  
 Guanacaste, Costa Rica  
 Gensler; Installed 2024



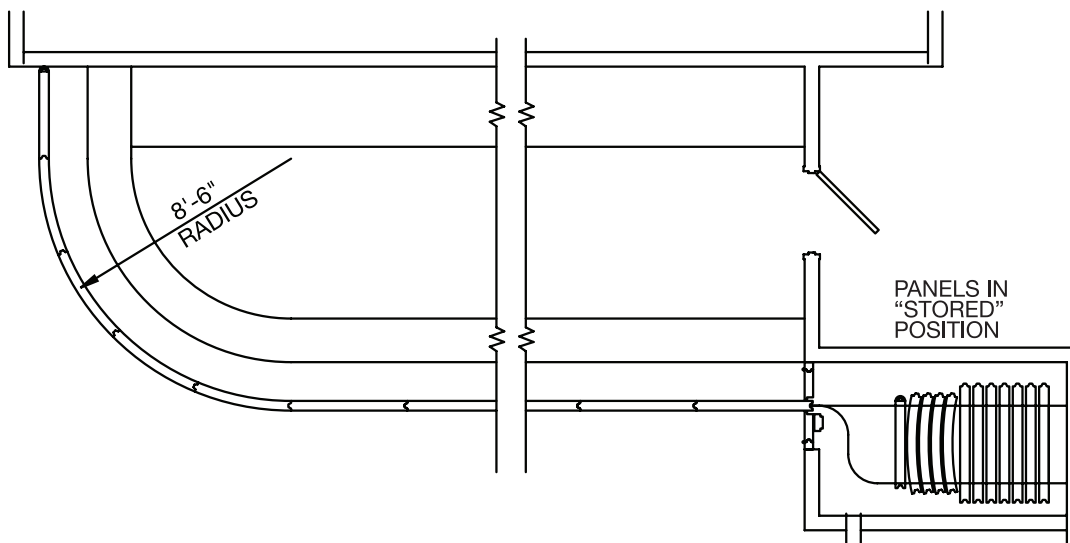
# Curve

## ELECTRIC OR MANUAL OPERATION

The use of CURVE panel construction on curved tracks of the same radius provides the designer with a space division option that may be more compatible with the room design that can be achieved with typical straight-line operable walls.

Electrically operated curved systems typically consist of one or more sliding elements that store in a deep narrow pocket or parallel to an adjacent room wall. If the electric wall consists of several moving elements then it is typical to have each element travel on its own track with elements storing parallel to each-other.

When manually operated, the designer can utilize all curved panels or can incorporate both curved and flat panels within the same operable wall. Panels are moved individually. Panel storage for manual operation is much the same as with a traditional operable wall, but pocket depth may be somewhat deeper in order to accommodate the curved elements.





advanced  
equipment  
CORPORATION



WORLD CLASS® OPERABLE WALLS

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