advanced equipment®
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

Concolidadora Chilena
Santiago, Chile

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 range of panel constructions. Each type of panel has been sound tested for STC value by a licensed acoustical engineer in an independent acoustical laboratory. AEC has established minimum NIC values which one can expect to achieve for each type of panel should the operable wall be field sound tested and providing that the surrounding building construction is compatible with the specified rating. The STC, NIC, and NRC values (where appropriate) can be found on the PANEL FEATURES CHART below.

NIC - NOISE ISOLATION CLASS
A single number rating delivered from a standardized ASTM field acoustical test procedure. The test is based on measurement of sound pressure lever differences on each side of the field installed product, adjusted to compensate for ambient noise levels. No adjustment of the value is made to compensate for sound absorption in the “receiving room”. Thus, the result is comparable to that perceived by the human ear. A NIC rating of 40 is considered very good for an operable wall. As with STC, the higher the rating the better the operable wall is at stopping sound transmission.

Acoustical Engineers consider NIC measurement the most utilitarian and widely used method of determining the sound reducing effectiveness pf operable walls. THE NIC value, being determined by field testing actual product purchased for use by the Owner/Operator, usually predicts Customer Satisfaction. A further advantage of field measurement of NIC is the ability to locate, define and correct sound leakage not related to the operable wall. Examples would be holes in sound barrier above ceiling, or common ductwork or conduit.

AEC considers field measurement of NIC, either optional or mandatory testing, to be the way to determine and control acoustical effectiveness of operable walls. It is recommended that one should not rely on STC to predict Customer Satisfaction. Learn more at z or contact your acoustical consultant.

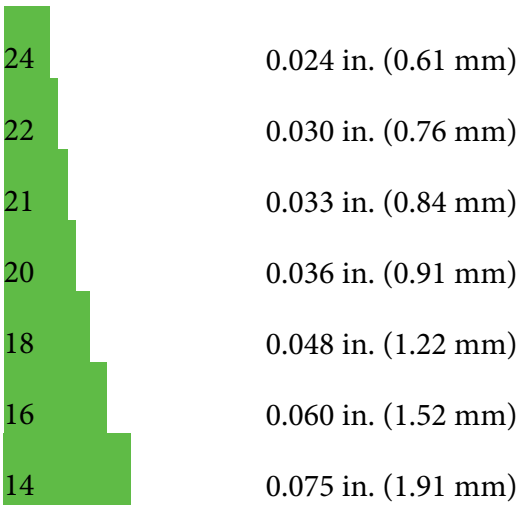
	PANEL TYPE	WEIGHT #/SQ. FT.	WEIGHT KG/M2	STC	NIC	NRC	PANEL THICKNESS	MAXIMUM WIDTH	MAXIMUM HEIGHT	PANEL FACE SHEET
ALPHA	S	8	39.1	53	42	-	3.5” (89 mm)	60” (1.52 M)	40 ft. (12.2 M)	16 ga. Steel Optional 14 ga.
ALPHA	T	8.6	42	54	42	-	3.5” (89 mm)	60” (1.52 M)	40 ft. (12.2 M)	Minimum 16 ga. Steel
ALPHA	U	9.2	45	53	42	-	4” (102 mm)	60” (1.52 M)	60 ft. (18.3 M)	14 ga. Steel
ALPHA	P	11	53.8	53	42	0.65	4” (102 mm)	60” (1.52 M)	60 ft. (18.3 M)	14 ga. Perforated Steel
ALPHA	X	9.5	46.5	53	42	-	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
SIGMA	B	6.4	31	50	39	-	3.5” (89 mm)	54” (1.37 M)	18 ft. (5.49 M)	Minimum 20 ga. Steel
SIGMA	C	6.9	33	51	40	-	3.5” (89 mm)	54” (1.37 M)	25 ft. (7.62 M)	Minimum 18 ga. Steel
SIGMA	D	7.4	36	52	41	-	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.

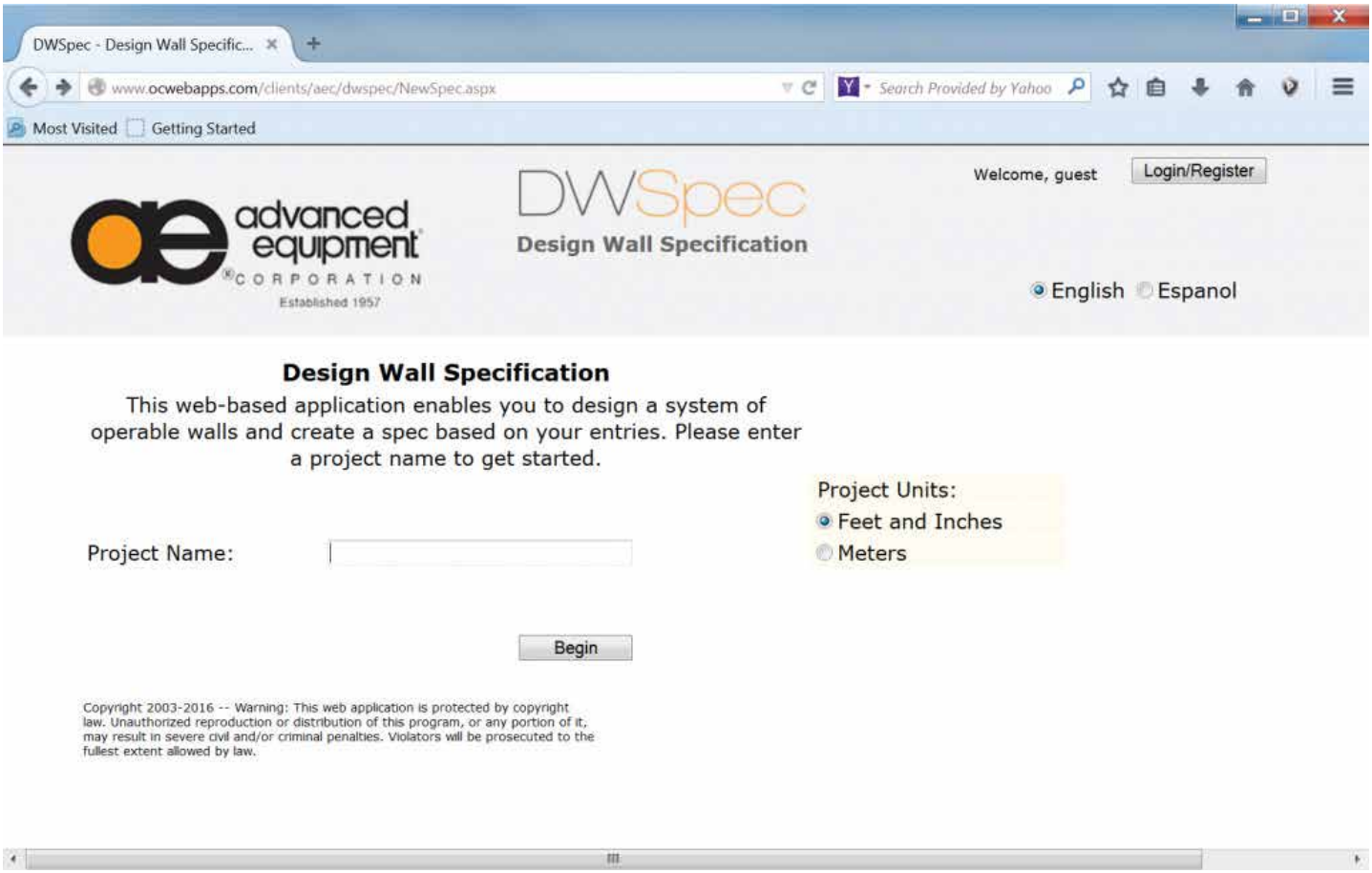
DWSpec™

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.

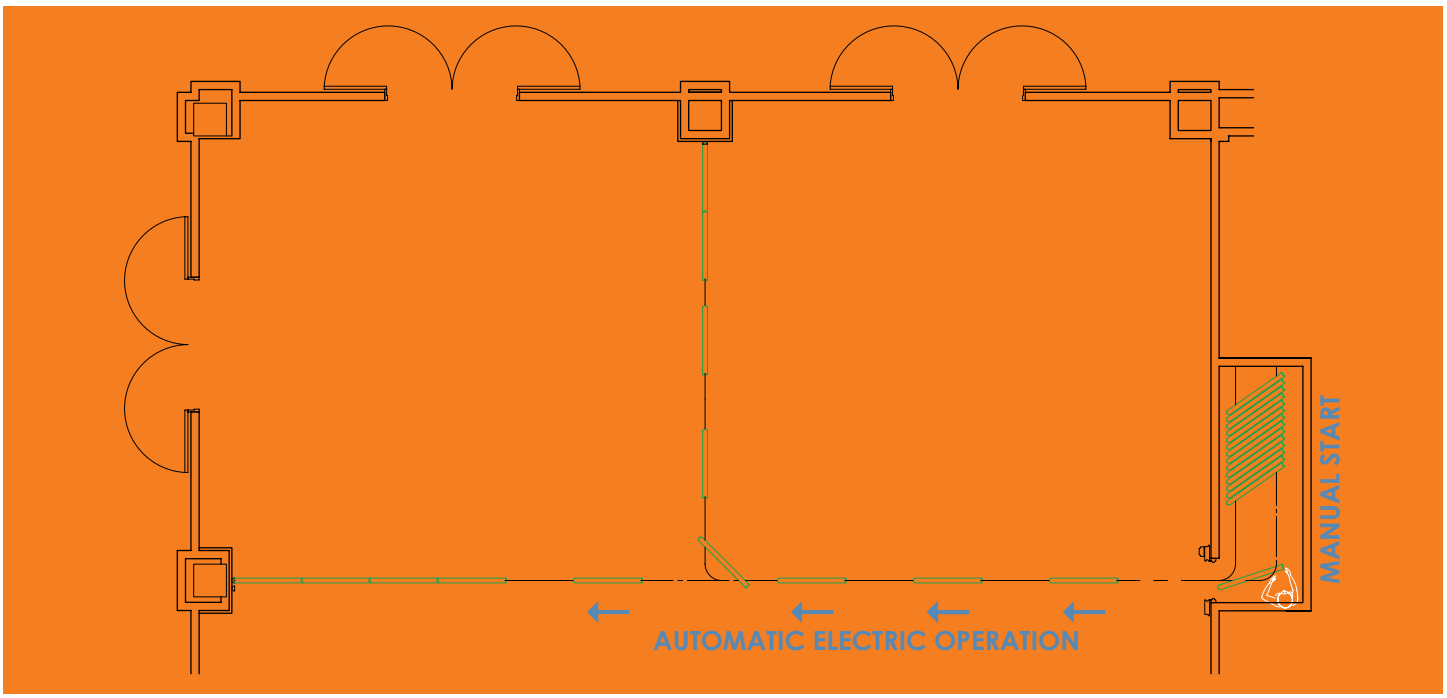
The application constantly updates itself based upon your previous entries and presents only valid options for continued selection. Therefore, common errors such as opening height exceeding limits of panel construction, panel weight exceeding trolley capacity, panel finish inappropriate for panel type 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™



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

Jacob Javitz Convention Center
New York, NY



Image

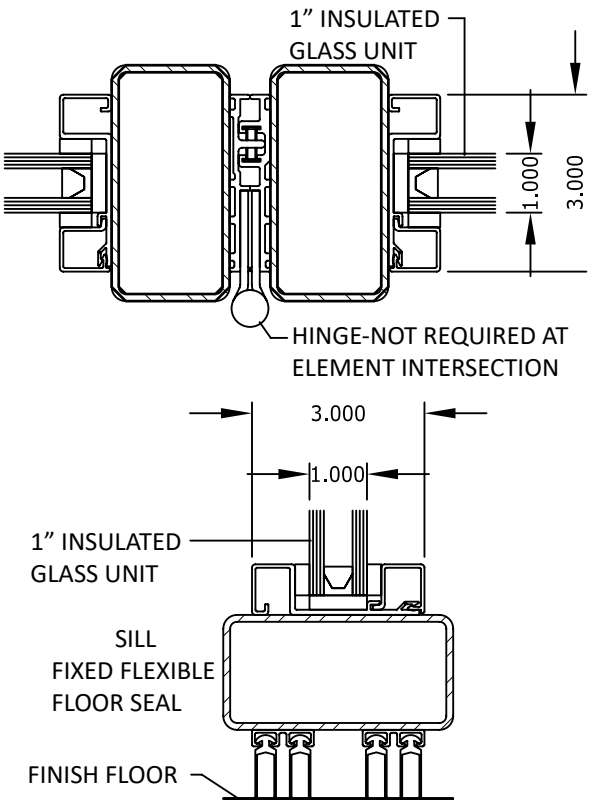
INCOMBUSTIBLE STEEL, QUALITY, STRENGTH, PERFORMANCE, and VALUE at COMPETITIVE PRICES. WELDED TUBE STEEL FRAME.

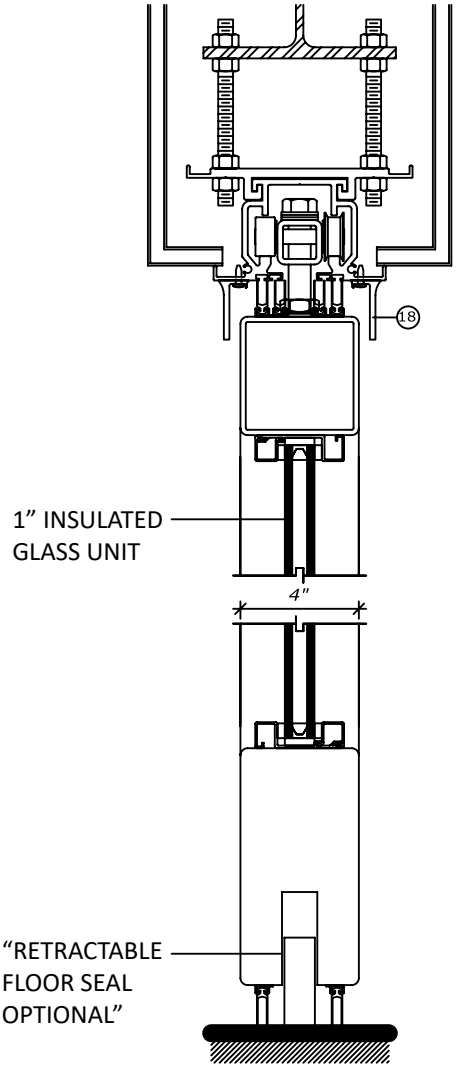
No floor track required for most models. Heights up to 30', widths for single panels 60", 96" and 180".

- 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





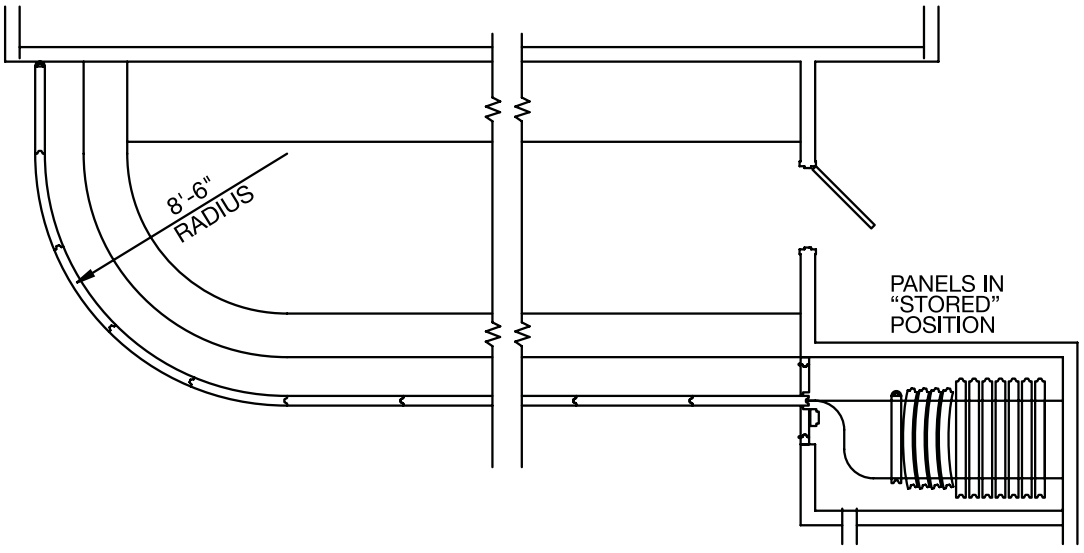
Curve

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

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WORLD CLASS® OPERABLE WALLS

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