MODERNFOLD®

ACOUSTI-CLEAR®

Acoustical Glass Wall Systems

INTRODUCING ACOUSTI-CLEAR® ACOUSTICAL GLASS PARTITION SYSTEMS

Acousti-Clear®, a new innovation in space management and room design by Modernfold, Inc. delivers the ultra-sleek contemporary aesthetics of aluminum and glass with highly desired sound separation all courtesy of a new and innovative glass wall system.

Modern design is characterized by its clear, elegant transparency. But a basic requirement still exists – to use space effectively and efficiently in terms of acoustics and aesthetics.

Acousti-Clear® successfully unifies these two previously contradictory demands by offering the modern design elements of glass while providing the ability to customize your space demands all while providing privacy and controlling sound.

THE CHOICE IS CLEAR WITH ACOUSTI-CLEAR®

Designed and engineered for the user in mind, the Acousti-Clear® acoustical glass partition system provides an all-inclusive family of acoustical glass wall products which provides both the advantages of movable partitions as well as fixed office fronts within any space. By providing matching ultra-sleek and contemporary panel frames between products, each space can mix and match between operable and fixed panels seamlessly to accomplish ultimate flexibility and space desirability.

The Acousti-Clear® family of products offers highly desired contemporary acoustically rated glass wall systems in three variations: Acousti-Clear® Motorized, Acousti-Clear® Automatic, and Acousti-Clear® Demountable.

Acousti-Clear® Motorized

Acousti-Clear® Motorized partitions eliminates any and all set-up concerns with its' innovative ComforTronic® motorized seal system. Once the single panel is pushed into place, motorized top and bottom seals activate to provide a constant and perfect seal every time to maximize acoustics.

Offered in single panels, Acousti-Clear® Motorized features multiple privacy options including optional MorphGlas™ which utilizes polymer disperesed liquid crystal glass to transition from clear to opaque or motorized venetian blinds that can be raised, lowered, or simply tilted, all by a simple turn of a switch to provide privacy when needed and full daylight when not.

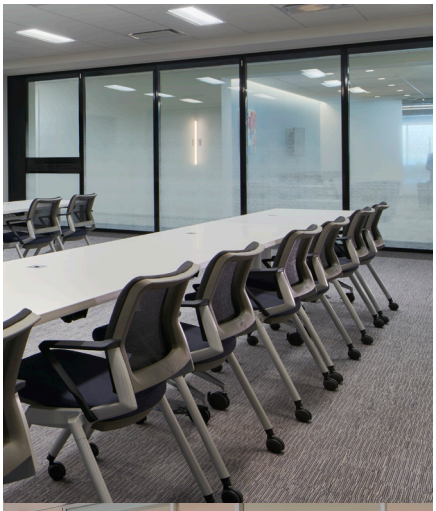
- 51 STC & 45 STC Glass Partitions
- 50 STC Classic Solid Partitions
- Single Panels
- ComforTronic® Motorized Seal System
- MorphGlas™ or Venetian Blind Privacy Options
- Glass Pass Door For Unobstructed Line- of-Sight
- Protector Series Automatic Line-of-Sight Deployment System
- Contemporary Design
- Custom Colors & Finishes
- Horizontal Mullions

Acousti-Clear® Automatic

For the cost conscious, Acousti-Clear® Automatic partitions feature Modernfold's innovative seal system which automatically sets both top and bottom seals by simply advancing each panel forward into the adjoining panel with no cranks to turn or buttons to push.

Acousti-Clear® Automatic partitions are available in both single and paired panel systems and offer maximum flexibility for challenging or complex layout issues. There are no sight obstructions with Acousti- Clear® Automatic partitions as a newly designed glass expandable panel is now available to seal your opening, thus allowing for a completely full glass wall experience while controlling the sound between spaces.

- 51 STC & 45 STC Glass Partitions
- 50 STC Classic Solid Partitions
- Single & Paired Panels
- Automatic Seal System
- Glass Pass Door For Unobstructed Line of Sight
- Contemporary Design
- Custom Colors & Finishes
- Horizontal Mullions



ACOUSTI-CLEAR®
DEMOUNTABLE

In the ever changing workspace environment, it becomes necessary to adjust your workspace design for a variety of reasons. Whether staffing changes, office functionality, or simply a re-design, the need for maximum flexibility will always be a necessity in any workspace.

Acousti-Clear® Demountable partitions provide that highly desired flexibility by offering a fully demountable office front system which can be moved or configured in virtually any set-up or configuration imaginable.

Not only do Acousti-Clear® Demountable partitions provide unlimited flexibility, they also offer something not found with glass partitions...Acoustical control. Acousti-Clear® Demountable partitions are able to provide an industry leading 51 STC acoustical rating when constructed with glass panels and a 50 STC rating when constructed with classic solid panels.

By providing the same contemporary look and feel as Acousti-Clear® Motorized and Automatic, Acousti-Clear® Demountable will fit seamlessly into any space and features the same finish options which include: Clear Anodized or Satin Stainless Aluminum, over 200 Classic RAL Powder Coat Options, Custom Glass, Veneer, Wilsonart® Laminates.

- 51 STC & 45 STC Glass Demountable Partitions
- 50 STC Classic Solid Demountable Partitions
- Single Panels
- Maximum Flexibility
- Floor Supported System
- Corner Posts
- Quick & Easy Installation
- Contemporary Design
- Custom Colors & Finishes
- Horizontal Mullions

Need to move your office to a completely new location? No problem... Your investment in Acousti- Clear® Demountable partitions gives you the ability to take your customizable office front partitions with you to your new location.

Flexibility is at its finest with Modernfold's new Acousti-Clear® Demountable partitions.

ACOUSTI-CLEAR®
FINISH OPTIONS

The Acousti-Clear® family of acoustically rated glass partitions have been designed with aesthetics in mind. Clean, minimalistic lines provide the contemporary look and feel that is highly desired in modern day spaces and within the design community.

The finish option possibilities are limitless with Acousti- Clear®. The ultra-sleek and contemporary look of glass and metal comes standard with the anodized aluminum panel frames. If you are looking for a more high end metal finish, Modernfold also offers an optional satin stainless finish.

When a true custom look is desired, Acousti-Clear® partitions can be powder coated in any classic RAL powder coat color selected. With over 200 colors to choose from, you can customize your Acousti-Clear® partitions to coordinate or match your company colors, school colors, or simply just accentuate the surrounding design within the space.

Classic solid Acousti-Clear® partitions are another great option featured on Acousti-Clear® Motorized partitions. The Classic solid partitions provide the ability to utilize veneers, plastic laminates, and work surfaces on individual panels throughout your space.

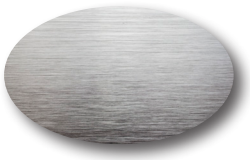
NUMEROUS COVERING AND HARDWARE OPTIONS AVAILABLE ALLOWING FOR FULL CUSTOMIZATION INTO ANY SPACE.

- High STC acoustical glass achieving 51 STC
- Recessed lever and rail handle door hardware
- Various wood veneer options on classic/solid panels
- Custom glass options including clear tempered, low iron, frosted, appliques
- Wilsonart® laminate on classic/solid panels
- Optional MorphGlas™ or motorized venetian blinds on Acousti-Clear® Motorized
- Over 170 custom Gloss and Satin RAL Classic powder coat options
- ADA compliant pass door and pivot door
- Markerboard work surface

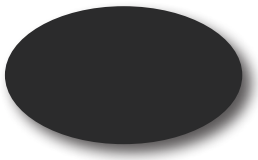
STANDARD RAIL FINISH OPTIONS

Std. Clear Anodized

Std. White RAL Powder Coat



Std. Satin Stainless



Std. Black RAL Powder Coat

ACOUSTI-CLEAR®
PROTECTOR SERIES

Safety is a growing concern in many facilities today. The Modernfold Acousti-Clear® Protector Series provides a facility the ability to utilize movable walls that provide daylighting, acoustics, and the desired flexible space without having to compromise safety features.

Acousti-Clear® Protector Series features the same great benefits of the Acousti-Clear® family of products while providing an automatic line-of-sight deployment system. This line-of-sight deployment system allows a facility to push a single button and automatically activate MorphGlas™ or deploy blinds within Acousti-Clear® movable walls to quickly and efficiently eliminate sight lines in an emergency situation.

Whether a facility has a single wall or numerous Acousti-Clear® movable walls, the Protector Series can be programmed to be push button activated by individual wall or by a master control.

Providing facility personnel, the peace of mind knowing that complete sight line separation is just a simple push of a button away in an emergency situation is just another reason why Acousti-Clear® movable walls are the clear choice for your next space division challenge.

PROTECTOR SERIES

ACOUSTI-CLEAR® PROTECTOR SERIES
AUTOMATIC LINE-OF-SIGHT DEPLOYMENT SYSTEM:

- Emergency line-of-sight deployment system
- Control visibility by a push of a single button
- Control Acousti-Clear® panel systems in individual rooms
- For maximum safety, wire a series of panel systems to main control for complete facility control

ACOUSTI-CLEAR® ACOUSTICALLY RATED GLASS PARTITION SYSTEMS HAVE BEEN LABORATORY TESTED TO AN INDUSTRY LEADING 51 STC...

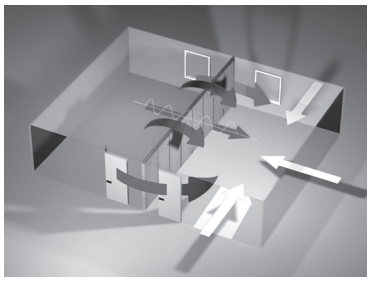
How does that translate into an actual space?
STC or Sound Transmission Class is a two-digit number describing the acoustical control of a partition in a sound laboratory setting. This method of ranking is the most widely accepted standard throughout the industry. Virtually every operable partition manufacturer conducts laboratory tests and must be able to validate their products results.

To be certified as a sound laboratory, a lab must be constructed to meet strict ASTM specifications and be certified by a third party. A quality sound laboratory has the ability to take everything out of the surrounding environment except for the partition that is being tested. Therefore, an STC rating calculates only the partition itself without any of the surrounding construction. This is very important to understand because when a partition is placed into an actual building, that building will not be built to the same standards as the sound laboratory and therefore will affect the acoustical performance within the space.

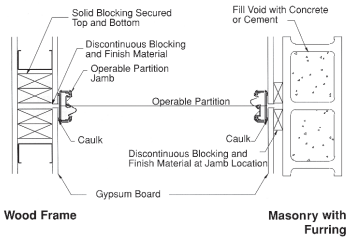
When you consider that an operable wall may represent only 10% of the surface area in a space, you quickly realize it takes more than just a great operable wall to achieve optimal acoustical control within the space. Acoustical success takes a great acoustical plan for the surrounding construction by the Acoustician, Architect, and General Contractor. One must understand that it is not realistic to duplicate the sound lab environment in an actual space, but duplicating the environment as closely as possible will determine the overall quality of the acoustical control within each space. The guidelines for duplicating the sound lab environment within an actual space are detailed in the ASTM E557 specification.

ASTM E557 is the blueprint for the successful construction surrounding acoustically rated operable partitions. The ASTM E557 specification can be purchased online at www.ASTM.org and is an absolutely essential guide for your spaces overall acoustical success. The STC of your operable partition is basically irrelevant if the surrounding construction is not up to the ASTM E557 specification. You will lose the intended acoustical control of the operable partitions through the surrounding construction and unrecognized construction errors.

The following are the most common construction errors in regards to successful acoustical control and operable partitions:



Flanking Paths
Airborne sound can be transmitted to adjoining rooms by way of adjacent doors, door grilles, air handling ducts, ceiling plenums, or floors and walls passing beneath the partition or from room-to-room at the ends of the partitions. These flanking paths can often be eliminated or diminished by installing baffling, sound barriers, or sound-absorbing insulation in key areas.



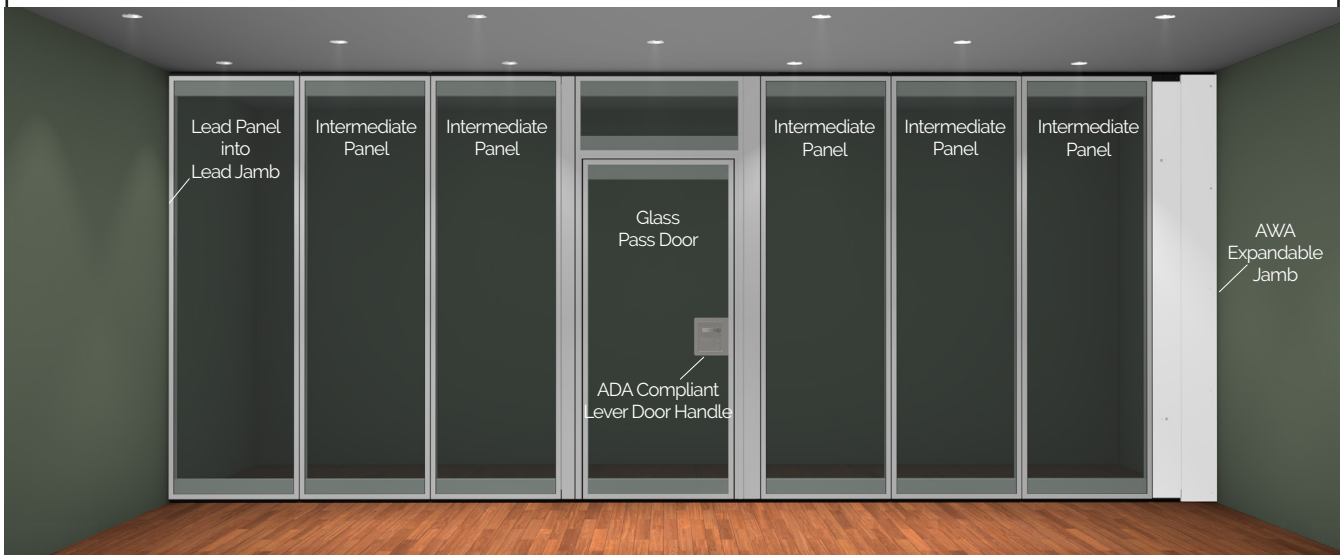
Above the Partition
A plenum above a partition can allow sound to pass up through the ceiling on one side and down to the other side. To eliminate this problem, a barrier (with a sound transmission loss equal to or greater than the partition) should be created above the partition.

Partition-to-Wall Connections
Operable partitions use various methods to connect with permanent walls and partitions. These include fixed jambs mounted to the partition or permanent wall, recessed jambs on the permanent surface, and multi-point bulb seals. Whatever the case, provisions should be made to allow for air tight closure against the permanent wall without interference from chair rails, crown moldings, or other surface materials.

For more detailed acoustic information please reference Modernfold's Acoustical Guide Form 2503.

Acousti-Clear® Motorized Seal

AWA Closure with Glass Pass Door



Pivot Panel Closure / Egress

Expandable Panel Closure with Variable Egress

Layouts shown on pages 12 and 13 are for final closure illustrative purposes only.

Acousti-Clear® Automatic Seal

Expandable Panel Closure with Glass Pass Door

Pivot Panel Closure / Egress

Glass Expandable Closure

There are a variety of layout options available to fit your individual space requirements. Please contact you local Modernfold Distributor for assistance.

CGR

ACOUSTI-CLEAR®
PRODUCT CHART

	Acousti-Clear® Motorized	Acousti-Clear® Automatic	Acousti-Clear® Demountable
Operation	Individual Panel Motorized	Individual Panel Automatic Paired Panel Automatic	Fixed Panel
Seals	ComforTronic® motorized controlled extension and retraction of top and bottom seals	Automatic Seals 7/8" Top & Bottom Clearance +/- 3/8" Operating Range	Manual Crank Activated Top & Bottom Seal System
Panel thickness	4"	4"	4"
Panel Height Min/Max	12'	Individual Panel - 12' Paired Panel - 12'	12'
Panel Width Min/Max	23-5/8" / 48"	28" / 48"	12" / 48"
Panel Weight	10 lbs.	10 lbs.	10 lbs.
Minimal Frame Profile Widths	4-11/16"	4-11/16"	4-11/16"
Construction	Double-Skin Glazing Tempered Glass	Double-Skin Glazing Tempered Glass	Double-Skin Glazing Tempered Glass
Closure Method	Glass Pivot Door Solid Expandable Panel AWA	Glass Pivot Door Glass Expandable Panel	Adjustable Jamb
Panel Interconnection	Convex/concave aluminum profiles with sealing lips for combined friction and positive interlock	Convex/concave aluminum profiles with sealing lips for combined friction and positive interlock	Convex/concave aluminum profiles with sealing lips for combined friction and positive interlock
Surface Finishes	Clear Anodized Satin Stainless Anodized Powder Coat White, Black Powder Coat STD RAL	Clear Anodized Satin Stainless Anodized Powder Coat White, Black Powder Coat STD RAL	Clear Anodized Satin Stainless Anodized Powder Coat White, Black Powder Coat STD RAL
Options	Glass Pass Door MorphGlas™ Motorized Blinds Horizontal Mullions Door Hardware Protector Series Line-of-Site Deployment System	Glass Pass Door Horizontal Mullions Door Hardware	Horizontal Mullions Door Hardware
Panel Types	Glass Pass Door Intermediate Panel Intermediate Panels with L, T, and X Post, Solid Pass Door	Glass Pass Door Intermediate Panel Intermediate Panels with L, T, and X Post	Intermediate panel L, T, and X Posts Pivot Door
Acoustics per ASTM E90	51 STC & 45 STC Glass 50 STC Classic	51 STC & 45 STC Glass 50 STC Solid	51 STC & 45 STC Glass 50 STC Solid
Suspension/Track	G150 & #17G	G150 & #17G	N/A

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