SECTION 10 23 26

GLASS PARTITION SYSTEMS

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\*\* NOTE TO SPECIFIER \*\* Hufcor, Inc.; operable partitions, accordion partitions, glass partitions and panels.
This section is based on the products of Hufcor, Inc., which is located at:
2101 Kennedy Rd. P. O. Box 5591
Janesville, WI 53547
Toll Free Tel: 800-542-2371
Tel: 608-756-1241
Fax: 608-758-8253
Email: [request info (hmarketing@hufcor.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Hufcor,+Inc.&coid=33145&rep=&fax=608-758-8253&message=RE:%20Spec%20Question%20(10660huf):%20%20&mf=)
Web: <https://www.hufcoramericas.com>
 [ [Click Here](https://www.arcat.com/arcatcos/cos33/arc33145.html) ] for additional information.
Hufcor is U.S. owned and operated and is the world's leading manufacturer of operable partitions, accordion folding doors, and glass wall partitions. Also referred to as "airwalls," Hufcor Moveable wall systems and room dividers deliver unlimited space division and acoustical separation.
The Hufcor history of quality, reliability, innovation, and service to the industry is the reason architects, contractors and engineers routinely specify Hufcor operable partitions.
Hufcor has licensees and distributors located throughout the world. Due to differences in the availability of various components, not every product is made exactly the same in every country nor is every product available in each country. However, each product is manufactured to Hufcor's exacting quality standards. Projects requiring partitions that exceed a licensee's capabilities are manufactured and shipped from the U.S.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Frameless glass panel systems. (GL1/GL2)
		2. Top supported, low profile, acoustic glass panel partitions. (GF1, GF2, GFS)
		3. Acoustical glass panel system. (GU1/GU2)
		4. Timber-framed glass panel system. (GT1/GT2)
		5. Structural truss support system. (U900/U901)
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 05 12 13 - Architecturally-Exposed Structural Steel Framing.
		2. Section 06 10 00 - Rough Carpentry.
	1. RELATED WORK BY OTHERS
		1. Preparation of opening. Any deviation of site conditions contrary to approved shop drawings shall be called to the attention of the Architect.
		2. Header, blocking, support structures, jambs, track enclosures, surrounding insulation, and sound baffles.
		3. Pre-punching of support structure in accordance with approved shop drawings.
		4. Paint or otherwise finishing all trim and other materials adjoining head and jamb of operable partitions.
	2. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
			1. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
			2. ASTM C1048 - Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.
			3. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
			4. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
			5. ASTM E336 - Standard Test Method for Measurement of Airborne Sound Attenuation between Rooms in Buildings.
			6. ASTM E557 - Standard Practice for Architectural Application and Installation of Operable Partitions
		2. Underwriter's laboratory (UL) 10B - Standard for Fire Tests of Door Assemblies.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.
		3. Shop Drawings: Complete shop drawings are to be provided prior to fabrication indicating construction and installation details.
	2. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Minimum 5 year experience manufacturing similar products.
			1. The manufacturer shall have a quality system registered to the ISO 9001 standards.
		2. Installer Qualifications: Minimum 2 year experience installing similar products.
		3. Product Qualifications:
			1. Preparation of the opening shall conform to the criteria set forth per ASTM E557 Standard Practice for Architectural Application and Installation of Operable Partitions.
			2. The partition STC (Sound Transmission Classification) shall be achieved per the standard test methods ASTM E90.
			3. Noise isolation classifications shall be achieved per the standard test methods ASTM E336 and ASTM E413.
			4. Noise Reduction Coefficient (NRC) ratings shall be per ASTM C423.
			5. Rack testing for 10 years. (tensional strength stress test)
			6. The manufacturer to have a quality system registered to the ISO 9001 standards.
	3. PRE-INSTALLATION MEETINGS
		1. Convene minimum two weeks prior to starting work of this section.
	4. DELIVERY, STORAGE, AND HANDLING
		1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
		2. Handling: Handle materials to avoid damage.
	5. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	6. SEQUENCING
		1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
	7. WARRANTY

\*\* NOTE TO SPECIFIER \*\* Consult your Hufcor Distributor for more information. Delete if not required.

* + 1. Manufacturer shall warrant partition system for a period of two years against defects in material and workmanship, excluding abuse.

\*\* NOTE TO SPECIFIER \*\* Consult your Hufcor Distributor for more information. Delete if not required.

* + 1. Manufacturer shall warrant partition system for a period of one year against defects in material and workmanship, excluding abuse.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Hufcor, Inc., which is located at: 2101 Kennedy Rd. P. O. Box 5591; Janesville, WI 53547; Toll Free Tel: 800-542-2371; Tel: 608-756-1241; Fax: 608-758-8253; Email: [request info (hmarketing@hufcor.com)](https://admin.arcat.com/users.pl?action=UserEmail&company=Hufcor,+Inc.&coid=33145&rep=&fax=608-758-8253&message=RE:%20Spec%20Question%20(10660huf):%20%20&mf=); Web: <https://www.hufcoramericas.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete product not required.

* 1. FRAMELESS GLASS PANEL SYSTEMS
		1. Product: Top supported individual glass panel system.
			1. Provide GL1 Glass Panel System as manufactured by Hufcor.
		2. Product: Top supported, center stacked paired glass panel system.
			1. Provide GL2 Glass Panel System as manufactured by Hufcor.
		3. Panel Construction:
			1. Panels: Nominally 1-5/8 inches (40 mm) thick and to 48 inches (1219 mm) in width.
			2. Glass shall be mechanically attached to top and bottom rails and not rely on friction and/or adhesives. Glass shall be clear tempered per ASTM C1048-97b.
			3. All glass edges shall be polished.

\*\* NOTE TO SPECIFIER \*\* Delete glass panel faces not required.

* + - 1. Glass panel faces shall be 1/2 inch (12 mm) fully tempered glass.
			2. Glass panel faces shall be 1/2 inch (12 mm) laminated glass.
			3. Glass panel faces shall be 1/2 inch (12 mm) satiny translucent acid etched, full height, one side only.

\*\* NOTE TO SPECIFIER \*\* Optional glass panel faces that require factory approval.

* + - 1. Glass panel faces shall be custom glass as scheduled or indicated on the Drawings.
			2. Top and bottom horizontal rail to be anodized aluminum and incorporate brush light seals.

\*\* NOTE TO SPECIFIER \*\* Important note: there is a 1/4 to 1/2 inch (6 mm to 12 mm) gap between panel joints to prevent glass from touching during panel setup. Size of gap varies due to glass tolerances.

* + - 1. Glass faces shall have no vertical trim.
			2. Each panel contains a foot bolt which is extended into a floor mounted receiver to stabilize and secure each panel in the opening.
			3. Weight of panels shall be approximately 6.5 lbs. per sq. ft. for 1/2 inch (12 mm) glass.
		1. Suspension system:
			1. Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6. Track design shall provide integral support for adjoining ceiling, soffit, or plenum sound barrier. Track shall be connected to the structural support by minimum of 3/8 inch (10 mm) diameter threaded steel hanger rods. Guide rails and/or track sweep seals shall not be required.

\*\* NOTE TO SPECIFIER \*\* GL1 panel system only. Delete if not required.

* + - * 1. Each panel shall be supported by two 2-wheeled counter-rotating horizontal carriers. Wheels to be of precision ground steel ball bearings with heat treated and hardened races encased with molded polymer tires.

\*\* NOTE TO SPECIFIER \*\* GL2 panel system only. Delete if not required.

* + - * 1. Each panel shall be supported by one 4-wheeled carrier. Wheels to be of hardened steel ball bearings encased with molded polymer tires.
		1. Finishes:

\*\* NOTE TO SPECIFIER \*\* Available on all the GL1 and GL2 models. Delete horizontal rail finish not required.

* + - 1. Horizontal Rail Finish: Clear anodized aluminum (standard).

\*\* NOTE TO SPECIFIER \*\* Delete standard rail color above or upgrades below.

* + - 1. Horizontal Rail Finish: Baked powder coating, Black textured color.
			2. Horizontal Rail Finish: Baked powder coating, Dark Bronze textured color.
			3. Horizontal Rail Finish: Baked powder coating, Sky White textured color.
			4. Horizontal Rail Finish: Stainless steel clad, No. 4 brushed finish.
			5. Horizontal Rail Finish: Stainless steel clad, No. 8 mirror finish.
			6. Horizontal Rail Finish: Baked powder coating, textured, custom color. Architect to select RAL color, subject to factory approval.
		1. Accessories:

\*\* NOTE TO SPECIFIER \*\* Delete pivot panel closure not required.

* + - 1. Pivot panel closure shall be by low profile handle.

\*\* NOTE TO SPECIFIER \*\* Delete standard pivot panel closure above or optional upgrades below.

* + - 1. Pivot panel closure shall be by push/pull D-handle both sides.
			2. Pivot panel closure shall be by push/pull ladder handle, both sides.
			3. Pivot panel closure shall be by push bar, one side.

\*\* NOTE TO SPECIFIER \*\* Delete locks not required.

* + - 1. Pivot panel closure shall be secured by face pin floor bolt.
			2. Pivot panel closure shall be secured by keyed floor lock one side, thumb turn opposite side.

\*\* NOTE TO SPECIFIER \*\* GL1 panel system only. Delete if not required.

* + - 1. Pass Door: Full height, ADA compliant pass, of same finish and construction as basic panels. Includes low profile handle, plunger latch to hold door closed, and a magnetic hold open to secure door while the panel is being moved.
		1. Operation:
			1. Panels shall be manually moved from the storage area, positioned in the opening, and floor bolts set.

\*\* NOTE TO SPECIFIER \*\* Delete final partition closure not required.

* + - 1. Final partition closure to be by pivot panel.
			2. Final partition closure to be by overlapping the opening.
			3. Final partition closure to be by end at wall.
			4. Stack/Store Panels: Retract floor bolts and move to storage area. Panels shall be stored in stacks in storage areas.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete products not required.

* 1. TOP SUPPORTED, LOW PROFILE, ACOUSTIC GLASS PANEL PARTITIONS
		1. Product: GF1 Series top supported, individual, omni directional, 1/2 inch (12 mm) glass wall partitions as manufactured by Hufcor Inc.
			1. Panel Construction:
				1. Nominal Panel Thickness: 1.75 inch (44 mm).
				2. Panel Width: Up to 48 inch (1219 mm).
				3. Panel Height: Up to 125 inch (3175 mm).
				4. Vertical Rail Width: 1-3/4 inch (44 mm).
				5. Glazing Seals and Gaskets: Provide frame and glass separation with acoustic seal.
				6. Panel Clearance: 1 inch (25 mm) from top rail and floor.

\*\* NOTE TO SPECIFIER \*\* Delete panel stack depth options not required.

* + - * 1. Panel Stack Depth: 2 inch (51 mm) per panel excluding optional door handle, floor pin and lock hardware when using type 26 carriers.
				2. Panel Stack Depth: 2-1/2 inch (64 mm) per panel excluding optional door handle, floor pin and lock hardware when using alternate type 36 carriers.
				3. Panel Stack Depth: 3 inch (76 mm) per panel excluding optional door handle, floor pin and lock hardware when using alternate type 38 carriers.
				4. Glass Faces: Factory installed single pane. Panel construction with glass shall be 6.6 lbs per sq ft (32.22 kg per sq m).

\*\* NOTE TO SPECIFIER \*\* Delete the following glazing options not required. Factory approval is required if selecting Acrylic Decorative Resin (Lumiclear).

Monolithic tempered safety glass. 1/2 inch (12 mm).

Laminated annealed safety glass with acoustical interlayer. 1/2 inch (12 mm).

Laminated annealed safety glass with 85 percent translucent white interlayer. 1/2 inch (12 mm).

Laminated annealed safety glass with 60 percent translucent white interlayer. 1/2 inch (12 mm).

Laminated annealed safety glass with 7 percent translucent white interlayer. 1/2 inch (12 mm).

Monolithic low iron tempered safety glass. 1/2 inch (12 mm).

Acrylic Decorative Resin (Lumiclear) with a minimum of 50 percent post-industrial recycled content. 1/2 inch (12 mm).

* + - 1. Seals:
				1. The leading vertical edge of each panel incorporates a tongue with two vinyl gaskets to nest into the vertical recess in the edge of the adjoining panel, creating a positive, interlocking joint for panel stability, ease of panel alignment and acoustic seal.
				2. Top and Bottom Horizontal Seals: Continuous contact, multi-layer, vinyl sweep seals.

Top Seals: Maintain contact with track.

Bottom Seals: Maintain contact with floor or other surface along path of movable partitions.

Bottom Rail Height: 3-15/16 inch (100 mm).

* + - 1. Partition Closure:

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following paragraphs.

* + - * 1. Full height Pivot Panel of the same thickness and construction as the basic panels.
				2. Lever Closure panel which incorporates a standard panel with a telescoping, lever actuated assembly to compress a bulb seal against wall with 56 lbs. (25 kg.) of force.
			1. The opposite end of the partition shall be:

\*\* NOTE TO SPECIFIER \*\* Delete two of the three following paragraphs.

* + - * 1. Full height Pivot Panel of the same thickness and construction as the basic panels.
				2. Bulb Seal: Compresses against wall.
				3. Bullnose Seal: Compresses into a two-piece extruded aluminum wall jamb compensating for out-of-plumb conditions of plus or minus 1/2 inch (12 mm).
			1. Panel Floor Pins: Extends into a floor mounted receiver stabilizing and securing panel in the opening. Pin Travel Distance: 1-1/2 inch (38 mm).

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - * 1. Pivot Panels: Optional face activated floor pin.
				2. Jamb Panels Adjacent to Pivot Panels: Waist-high activated floor pin mounted into the panel edge.
				3. Panels Terminating at Wall or Wall Jambs: Waist-high activated floor pin mounted into the panel edge.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - * 1. Other face or edge pins for additional security.
			1. Suspension Systems:
				1. Ceiling Tracks: Clear anodized architectural grade extruded aluminum alloy 6063-T6.

Steel tracks are not acceptable.

Floor tracks are not acceptable nor permitted.

Provides integral support for adjoining ceiling, soffit, or plenum sound barrier.

Structural Support Connections: Pairs of 3/8 inch (10 mm) diameter threaded steel hanger rods. L, T, or X intersections shall be factory assembled and welded.

Built-In Ceiling Trim: Anodized finished aluminum providing enclosure of plenum sound barrier on both sides of track for maximum sound control.

Panel Removal: A section of track will be removable for panel removal from track for panel maintenance or replacement.

Panel Support Carriers: Two per panel.

Wheels: Precision ground steel ball bearings with heat treated and hardened races encased with molded polymer tires.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required. Hufcor Unispan support system is available for installations with insufficient overhead support and for select layouts.

Hufcor Unispan pre-engineered truss and columns system for panel support.

Construction: Steel and aluminum. Attaches to building structure providing lateral stability. Truss and partition load is supported by the columns. The columns connect to floor plates that distribute the system load to the floor. No additional footings required.

* + - 1. Finishes: Visible aluminum frame parts.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required. Clear anodized is standard.

* + - * 1. Anodized clear.
				2. Baked powder coating, Black textured color.
				3. Baked powder coating, Dark Bronze textured color.
				4. Baked powder coating, Sky White textured color.
				5. Baked powder coating, textured, custom color. Architect to select RAL color, subject to factory approval.
			1. Available Optional Accessories:
				1. Pass Door: Single panel, full height pass door. Top supported, dual carrier suspension for easy panel movement, same finish and construction as basic panels. Includes waist height activation for single action set up of panel. and a top-latch mechanism to hold door closed.

\*\* NOTE TO SPECIFIER \*\* Delete door handle, door pull options not required.

Door handle: Low profile aluminum extrusion, clear anodized finish.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 5 inch (127 mm).

Length: 10 inch (254 mm).

Length: Full height of panel.

Wire or "D" Door Pull:

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Aluminum, clear anodized.

Material and Finish: Stainless steel, polished.

Material and Finish: Stainless steel, satin.

Material and Finish: Aluminum, dark bronze anodized.

Material and Finish: Aluminum, black anodized.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 12 inch (305 mm).

Length: 18 inch (457 mm).

Length: 24 inch (610 mm).

Ladder or "H" door pull:

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 18 inch (457 mm).

Length: 24 inch (610 mm).

Length: 36 inch (914 mm).

Length: 48 inch (1219 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Stainless steel, polished.

Material and Finish: Stainless steel, satin.

Material and Finish: Aluminum, dark bronze powder coat.

Material and Finish: Aluminum black powder coat.

* + - * 1. Pivot panel closure, door handles:

\*\* NOTE TO SPECIFIER \*\* Delete door handle, door pull options not required.

Door handle: Low profile aluminum extrusion, clear anodized finish.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 5 inch (127 mm).

Length: 10 inch (254 mm).

Length: Full height of panel.

Wire or "D" Door Pull:

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Aluminum, clear anodized.

Material and Finish: Stainless steel, polished.

Material and Finish: Stainless steel, satin.

Material and Finish: Aluminum, dark bronze anodized.

Material and Finish: Aluminum, black anodized.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 12 inch (305 mm).

Length: 18 inch (457 mm).

Length: 24 inch (610 mm).

Ladder or "H" door pull:

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 18 inch (457 mm).

Length: 24 inch (610 mm).

Length: 36 inch (914 mm).

Length: 48 inch (1219 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Stainless steel, polished.

Material and Finish: Stainless steel, satin.

Material and Finish: Aluminum, dark bronze powder coat.

Material and Finish: Aluminum black powder coat.

* + - * 1. Pivot Panel Closure - Lock Hardware (pick one):

\*\* NOTE TO SPECIFIER \*\* Delete core floor lock options not required.

Core Floor Lock: 5-pin random-keyed non-replaceable. Supplied with matching trim rings.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following paragraphs

Key face.

Thumb turn on either side of panel or both.

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Aluminum, clear anodized.

Material and Finish: Aluminum, dark bronze anodized.

Material and Finish: Aluminum, black anodized.

Core Floor Lock: 7-pin same-keyed replaceable SFIC (small format interchangeable core). Supplied with matching trim rings.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following paragraphs.

Key face.

Thumb turn on either side of panel or both.

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required

Material and Finish: Bright brass.

Material and Finish: Satin brass.

Material and Finish: Bright bronze.

Material and Finish: Satin bronze.

Material and Finish: Oil rubbed bronze.

Material and Finish: Satin nickel.

Material and Finish: Bright Chrome.

Material and Finish: Satin chrome.

Material and Finish: Dark statuary bronze.

\*\* NOTE TO SPECIFIER \*\* Consult with manufacturer representative for more detailed information.

Core Floor Lock: Field prep for cylinder to be provided by customer in field such as for custom or master keying. Standard size and format.

* + - 1. Operation: Panels manually moved from storage area and positioned in. Panel floor pins should be set where applicable.
				1. Panel; Stack and Storage: Retract floor pins, open pivot panel, or retract lever closure, fold and move to storage area. Panels may be stored at either or both ends of the track or in a pocket.
			2. Acoustical Performance:
				1. Supply copy of acoustical test report certifying that partition system was tested by a NVLAP accredited acoustical laboratory.

Tested Partitions: Fully functional, meeting ASTM E90 or be replaced by manufacturer at their cost or bid as alternate.

Test results must be similar or exceed performance specified.

Sound tests performed on a single panel or non-functional partition will not be accepted.

Sound tests not showing panel construction details with weight, or not disclosing all the information will not be valid.

Equivalence requests must include complete technical information, a list of 3 similar projects already carried out as well as a copy of the appropriate acoustical performance sound test, at least 10 days before closing of the bids.

Manufacturers must guarantee products proposed have same characteristics as products specified and are in accordance with the Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete panel construction options not required.

Panel Construction: 1/2 inch (12 mm) monolithic tempered safety glass or monolithic low iron glass shall have obtained a system tested STC rating of 33.

Panel Construction: 1/2 inch (12 mm) laminated annealed safety glass with or without opaque interlayer shall have obtained a system tested STC rating of 37.

Panel Construction: 1/2 inch (12 mm) laminated annealed safety glass with acoustical interlayer shall have obtained a system tested STC rating of 38.

* + 1. Product: GF2 Series top supported, centered stacked, paired, 1/2 inch (12 mm) glass wall partitions as manufactured by Hufcor Inc.

\*\* NOTE TO SPECIFIER \*\* For those openings where an even number of panels (including the end pivot door) will fill the opening better than an odd number of panels, a 3-panel group may be available. Contact manufacturer for more information.

* + - 1. Panel Construction: Full perimeter extruded aluminum frame and mechanically-fastened corner construction.
				1. Nominal Panel Thickness: 1.75 inch (44 mm).
				2. Panel Width: Up to 48 inch (1219 mm).
				3. Panel Height: Up to 125 inch (3175 mm).
				4. Vertical Rail Width: 1-3/4 inch (44 mm).
				5. Glazing Seals and Gaskets: Provide frame and glass separation with acoustic seal.
				6. Panel Clearance: 1 inch (25 mm) from top rail and floor.

\*\* NOTE TO SPECIFIER \*\* Delete panel stack depth options not required.

* + - * 1. Panel Stack Depth: 3 inch (76 mm) per panel excluding optional door handle, floor pin and lock hardware when using type 38, 4-wheel carriers.
				2. Panel Stack Depth: 3-3/4 inch (95 mm) per panel excluding optional door handle, floor pin and lock hardware when using alternate type 40, 4-wheel carriers.
				3. Panel Stack Depth: 2 inch (51 mm) per panel excluding optional door handle, floor pin and lock hardware when using alternate "tight stack" type 40, 2-wheel carriers.
				4. Glass Faces: Factory installed single pane. Panel construction with glass shall be 6.6 lbs per sq ft (32.22 kg per sq m).

\*\* NOTE TO SPECIFIER \*\* Delete the following glazing options not required. Factory approval is required if selecting Acrylic Decorative Resin (Lumiclear).

Monolithic tempered safety glass. 1/2 inch (12 mm).

Laminated annealed safety glass with acoustical interlayer. 1/2 inch (12 mm).

Laminated annealed safety glass with 85 percent translucent white interlayer. 1/2 inch (12 mm).

Laminated annealed safety glass with 60 percent translucent white interlayer. 1/2 inch (12 mm).

Laminated annealed safety glass with 7 percent translucent white interlayer. 1/2 inch (12 mm).

Monolithic low iron tempered safety glass. 1/2 inch (12 mm).

Acrylic Decorative Resin (Lumiclear) with a minimum of 50 percent post-industrial recycled content. 1/2 inch (12 mm).

* + - 1. Seals:
				1. The leading vertical edge of each panel incorporates a tongue with two vinyl gaskets to nest into the vertical recess in the edge of the adjoining panel, creating a positive, interlocking joint for panel stability, ease of panel alignment and acoustic seal.
				2. Top and Bottom Horizontal Seals: Continuous contact, multi-layer, vinyl sweep seals.

Top Seals: Maintain contact with track.

Bottom Seals: Maintain contact with floor or other surface along path of movable partitions.

Bottom Rail Height: 3-15/16 inch (100 mm).

* + - 1. Partition Closure:

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following paragraphs.

* + - * 1. Full height Pivot Panel of the same thickness and construction as the basic panels.
				2. Lever Closure panel which incorporates a standard panel with a telescoping, lever actuated assembly to compress a bulb seal against wall with 56 lbs. (25 kg.) of force.
			1. The opposite end of the partition shall be:

\*\* NOTE TO SPECIFIER \*\* Delete two of the three following paragraphs.

* + - * 1. Full height Pivot Panel of the same thickness and construction as the basic panels.
				2. Bulb Seal: Compresses against wall.
				3. Bullnose Seal: Compresses into a two-piece extruded aluminum wall jamb compensating for out-of-plumb conditions of plus or minus 1/2 inch (12 mm).
			1. Panel Floor Pins: Each panel contains a floor pin which extends into a floor mounted receiver stabilizing and securing panels in the opening. Pin Travel Distance: 1-1/2 inch (38 mm).

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - * 1. Pivot Panels: Optional face activated floor pin.
				2. Paired Panel Groups: One panel with a face activated floor pin, one panel with a waist-high activated floor pin mounted into the panel edge.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - * 1. Three-Panel Groups: Two lead panels with face activated floor pins, and one trail panel with a waist-high activated floor pin mounted into the panel edge.
			1. Suspension Systems:
				1. Ceiling Tracks: Clear anodized architectural grade extruded aluminum alloy 6063-T6.

Steel tracks are not acceptable.

Floor tracks are not acceptable nor permitted.

Provides integral support for adjoining ceiling, soffit, or plenum sound barrier.

Structural Support Connections: Pairs of 3/8 inch (10 mm) diameter threaded steel hanger rods. L, T, or X intersections shall be factory assembled and welded.

Built-In Ceiling Trim: Anodized finished aluminum providing enclosure of plenum sound barrier on both sides of track for maximum sound control.

Panel Removal: A section of track will be removable for panel removal from track for panel maintenance or replacement.

Panel Support Carriers: Two per panel.

Wheels: Precision ground steel ball bearings with heat treated and hardened races encased with molded polymer tires.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required. Hufcor Unispan support system is available for installations with insufficient overhead support and for select layouts.

Hufcor Unispan pre-engineered truss and columns system for panel support.

Construction: Steel and aluminum. Attaches to building structure providing lateral stability. Truss and partition load is supported by the columns. The columns connect to floor plates that distribute the system load to the floor. No additional footings required.

* + - 1. Finishes: Visible aluminum frame parts.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required. Clear anodized is standard.

* + - * 1. Anodized clear.
				2. Baked powder coating, Black textured color.
				3. Baked powder coating, Dark Bronze textured color.
				4. Baked powder coating, Sky White textured color.
				5. Baked powder coating, textured, custom color. Architect to select RAL color, subject to factory approval.
			1. Available Optional Accessories:
				1. Pivot panel closure, door handles (pick one):

\*\* NOTE TO SPECIFIER \*\* Delete door handle, door pull options not required.

Door handle: Low profile aluminum extrusion, clear anodized finish.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 5 inch (127 mm).

Length: 10 inch (254 mm).

Length: Full height of panel.

Wire or "D" Door Pull:

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Aluminum, clear anodized.

Material and Finish: Stainless steel, polished.

Material and Finish: Stainless steel, satin.

Material and Finish: Aluminum, dark bronze anodized.

Material and Finish: Aluminum, black anodized.

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 12 inch (305 mm).

Length: 18 inch (457 mm).

Length: 24 inch (610 mm).

Ladder or "H" door pull:

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 18 inch (457 mm).

Length: 24 inch (610 mm).

Length: 36 inch (914 mm).

Length: 48 inch (1219 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Stainless steel, polished.

Material and Finish: Stainless steel, satin.

Material and Finish: Aluminum, dark bronze powder coat.

Material and Finish: Aluminum black powder coat.

* + - * 1. Pivot Panel Closure - Lock Hardware (pick one):

\*\* NOTE TO SPECIFIER \*\* Delete core floor lock options not required.

Core Floor Lock: 5-pin random-keyed non-replaceable. Supplied with matching trim rings.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following paragraphs

Key face.

Thumb turn on either side of panel or both.

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Aluminum, Clear Anodized.

Material and Finish: Aluminum, Dark Bronze Anodized.

Material and Finish: Aluminum, Black Anodized.

Core Floor Lock: 7-pin same-keyed replaceable SFIC (small format interchangeable core). Supplied with matching trim rings.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following paragraphs.

Key face.

Thumb turn on either side of panel or both.

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required

Material and Finish: Bright Brass.

Material and Finish: Satin Brass.

Material and Finish: Bright Bronze.

Material and Finish: Satin Bronze.

Material and Finish: Oil Rubbed Bronze.

Material and Finish: Satin Nickel

Material and Finish: Bright Chrome.

Material and Finish: Satin Chrome.

Material and Finish: Dark Statuary Bronze.

\*\* NOTE TO SPECIFIER \*\* Consult with manufacturer representative for more detailed information.

Core Floor Lock: Field prep for cylinder to be provided by customer in field such as for custom or master keying. Standard size and format.

* + - 1. Operation: Panels manually moved from storage area and positioned in opening. Panel floor pins should be set where applicable.
				1. Panel - Stack and Storage: Retract floor pins, open pivot panel, or retract lever closure, fold and move to storage area. Panels may be stored at either or both ends of the track or in a pocket.
			2. Acoustical Performance:
				1. Supply copy of acoustical test report certifying that partition system was tested by a NVLAP accredited acoustical laboratory.

Tested Partitions: Fully functional, meeting ASTM E90 or be replaced by manufacturer at their cost or bid as alternate.

Test results must be similar or exceed performance specified.

Sound tests performed on a single panel or non-functional partition will not be accepted.

Sound tests not showing panel construction details with weight, or not disclosing all the information will not be valid.

Equivalence requests must include complete technical information, a list of 3 similar projects already carried out as well as a copy of the appropriate acoustical performance sound test, at least 10 days before closing of the bids.

Manufacturers must guarantee products proposed have same characteristics as products specified and are in accordance with the Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete panel construction options not required.

Panel Construction: 1/2 inch (12 mm) monolithic tempered safety glass or monolithic low iron glass shall have obtained a system tested STC rating of 33.

Panel Construction: 1/2 inch (12 mm) laminated annealed safety glass with or without opaque interlayer shall have obtained a system tested STC rating of 37.

Panel Construction: 1/2 inch (12 mm) laminated annealed safety glass with acoustical interlayer shall have obtained a system tested STC rating of 38.

* + 1. Product: GFS Series top supported, sliding, manually operated, 1/2 inch (12 mm) glass wall partitions as manufactured by Hufcor Inc.
			1. Panel Construction: Full perimeter extruded aluminum frame and mechanically fastened corner construction.
				1. Nominal Panel Thickness: 1.75 inch (44 mm).
				2. Panel Width: Up to 48 inch (1219 mm).
				3. Panel Height: Up to 125 inch (3175 mm).
				4. Vertical Rail Width: 1-3/4 inch (44 mm).
				5. Glazing Seals and Gaskets: Provide frame and glass separation with acoustic seal.
				6. Panel Clearance: 1 inch (25 mm) from top rail and floor.
				7. Glass Faces: Factory installed single pane. Panel construction with glass shall be 6.6 lbs. per sq ft (32.22 kg per sq m).

\*\* NOTE TO SPECIFIER \*\* Delete glazing options not required.

Monolithic tempered safety glass. 1/2 inch (12 mm).

Laminated annealed safety glass with acoustical interlayer. 1/2 inch (12 mm).

Laminated annealed safety glass with 85 percent translucent white interlayer. 1/2 inch (12 mm).

Laminated annealed safety glass with 60 percent translucent white interlayer. 1/2 inch (12 mm).

Laminated annealed safety glass with 7 percent translucent white interlayer. 1/2 inch (12 mm).

Monolithic low iron tempered safety glass. 1/2 inch (12 mm).

Acrylic Decorative Resin (Lumiclear) with a minimum of 50 percent post-industrial recycled content. 1/2 inch (12 mm).

* + - 1. Seals:
				1. The trailing vertical style of each panel incorporates a vinyl gasket to seal against the vertical style of the adjacent overlapping panel, creating an acoustic seal.
				2. Top and Bottom Horizontal Seals: Continuous contact, multi-layer, vinyl sweep seals.

Top Seals: Maintain contact with track.

Bottom Seals: Maintain contact with floor or other surface along path of movable partitions.

Bottom Rail Height: 3-15/16 inch (100 mm).

* + - 1. Partition Stacking:

\*\* NOTE TO SPECIFIER \*\* Select one stack method. Delete stack methods not required.

* + - * 1. Fixed: Trail panel connected to a fixed jamb attached to the wall.
				2. Overlap: Trail panel overlaps wall 3 inch (76 mm).
				3. Bulb Seal: Trail panel compresses against storage pocket door by others.
			1. The opposite (lead) end of the partition shall be:

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following paragraphs.

* + - * 1. Wall Jamb: Lead panel latches to two-piece extruded aluminum wall jamb, compensating for out-of-plumb conditions of plus or minus 1/2 inch (12 mm). Soft-close on lead panel arrests movement before latching.
				2. Bi-parting: The leading vertical edge of each panel meeting in the middle incorporates a tongue with two vinyl gaskets to nest into the vertical recess in the edge of the adjoining panel, creating a positive, interlocking joint for panel stability, ease of panel alignment and acoustic seal.
			1. Panel Floor Pins: One panel of partitions containing three or more panels contains an optional floor pin which extends into a floor mounted receiver, stabilizing the panels when opening the lead panel as a door. Pin Travel Distance: 1-1/2 inch (38 mm).
			2. Suspension Systems:
				1. Ceiling Tracks: Clear anodized architectural grade extruded aluminum alloy 6063-T6.

Steel tracks are not acceptable.

Floor tracks are not acceptable nor permitted.

Provides integral support for adjoining ceiling, soffit, or plenum sound barrier.

Structural Support Connections: Pairs of 3/8 inch (10 mm) diameter threaded steel hanger rods. L, T, or X intersections shall be factory assembled and welded.

Ceiling Trim: Anodized finished aluminum providing enclosure of plenum sound barrier on both sides of track for maximum sound control.

Panel Removal: A section of track will be removable for panel removal from track for panel maintenance or replacement.

Panel Support Carriers: Two per panel.

Wheels: Precision ground steel ball bearings with heat treated and hardened races encased with molded polymer tires.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required. Hufcor Unispan support system is available for installations with insufficient overhead support and for select layouts.

Hufcor Unispan pre-engineered truss and columns system for panel support.

Construction: Steel and aluminum. Attaches to building structure providing lateral stability. Truss and partition load is supported by the columns. The columns connect to floor plates that distribute the system load to the floor. No additional footings required.

* + - 1. Finishes: Visible aluminum frame parts.

\*\* NOTE TO SPECIFIER \*\* Delete finish options not required. Clear anodized is standard.

* + - * 1. Anodized clear.
				2. Baked powder coating, Black textured color.
				3. Baked powder coating, Dark Bronze textured color.
				4. Baked powder coating, Sky White textured color.
				5. Baked powder coating, textured, custom color. Architect to select RAL color, subject to factory approval.
			1. Lead panel handle hardware (pick one):
				1. Wire or "D" Door Pull:

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 12 inch (305 mm).

Length: 18 inch (457 mm).

Length: 24 inch (610 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Aluminum, clear anodized.

Material and Finish: Stainless steel, polished.

Material and Finish: Stainless steel, satin.

Material and Finish: Aluminum, dark bronze anodized.

Material and Finish: Aluminum, black anodized.

* + - * 1. Ladder or "H" Door Pull:

\*\* NOTE TO SPECIFIER \*\* Delete length options not required.

Length: 18 inch (457 mm).

Length: 24 inch (610 mm).

Length: 36 inch (914 mm).

Length: 48 inch (1219 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Stainless steel, polished.

Material and Finish: Stainless steel, satin.

Material and Finish: Aluminum, dark bronze powder coat.

Material and Finish: Aluminum black powder coat.

* + - * 1. Flush Pull Handle

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Stainless Steel, satin.

Material and Finish: Steel, ceramic, graphite black.

Material and Finish: Steel, ceramic, dark bronze.

* + - * 1. Flush Pull Handle with Lockset

Mortise cylinder, 5 pin, with a thumb turn opposite side and retractable edge finger pull.

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Stainless Steel, satin.

Material and Finish: Steel, ceramic, graphite black.

Material and Finish: Steel, ceramic, dark bronze.

* + - * 1. Lever Handle

ADA compliant with single action emergency egress.

Auto-latching

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Stainless Steel, satin.

Material and Finish: Steel, ceramic, graphite black.

Material and Finish: Steel, ceramic, dark bronze.

* + - * 1. Lever Handle with Lockset

ADA compliant with single action emergency egress.

Auto-latching

SFIC 7 pin mortise cylinder and removable core with a thumb turn on the opposite side.

\*\* NOTE TO SPECIFIER \*\* Delete material and finish options not required.

Material and Finish: Stainless Steel, satin.

Material and Finish: Steel, ceramic, graphite black.

Material and Finish: Steel, ceramic, dark bronze.

* + - 1. Operation: Lead panel manually slides from storage area, which pulls remaining panels in a sequential manner. Seal to wall jamb at the opposite end. Soft-close on lead panel arrests movement before latching. Optional panel floor pin should be set where applicable.
				1. Panel - Stack and Storage: Retract optional floor pin, unlatch lead panel where required, and slide lead panel to storage area, collecting remaining panels in a sequential manner. Panels may be stored at either or both ends of the track, and/or in a pocket.
			2. Acoustical Performance:
				1. Supply copy of acoustical test report certifying that partition system was tested by a NVLAP accredited acoustical laboratory.

Tested Partitions: Fully functional, meeting ASTM E90 or be replaced by manufacturer at their cost or bid as alternate.

Test results must be similar or exceed performance specified.

Sound tests performed on a single panel or non-functional partition will not be accepted.

Sound tests not showing panel construction details with weight, or not disclosing all the information will not be valid.

Equivalence requests must include complete technical information, a list of 3 similar projects already carried out as well as a copy of the appropriate acoustical performance sound test, at least 10 days before closing of the bids.

Manufacturers must guarantee products proposed have same characteristics as products specified and are in accordance with the Drawings.

\*\* NOTE TO SPECIFIER \*\* Delete panel construction options not required.

Panel Construction: 1/2 inch (12 mm) monolithic tempered safety glass or monolithic low iron glass shall have obtained a system tested STC rating of 33.

Panel Construction: 1/2 inch (12 mm) Acrylic Decorative Resin (Lumiclear) with a minimum of 50 percent post-industrial recycled content shall have obtained a system tested STC rating of 33.

Panel Construction: 1/2 inch (12 mm) laminated annealed safety glass with or without opaque interlayer shall have obtained a system tested STC rating of 37.

Panel Construction: 1/2 inch (12 mm) laminated annealed safety glass with acoustical interlayer shall have obtained a system tested STC rating of 38.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete product not required.

* 1. ACOUSTICAL GLASS PANEL SYSTEM
		1. Acoustical Performance:

\*\* NOTE TO SPECIFIER \*\* Delete if substitution requests not allowed.

* + - 1. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements. Requests shall include an acoustical test report certifying that the partition was tested by an independent accredited laboratory. The partition tested shall be fully functional, sized at 14 feet 0 inch x 8 feet 5 inches (4267 mm x 2591 mm) and meet ASTM E90 standard. The test results shall be similar to or exceed the performance specified. Sound tests performed on a single panel or on a non-functional partition will not be accepted. Any sound test not showing panel construction details and weight or not disclosing all the information will not be valid. All equivalence requests shall include complete technical information, a list of 3 similar completed projects and a copy of the acoustical performance sound test, at least 10 days before closing of the bids. The manufacturers shall guarantee that the products proposed have the same characteristics as the products specified and are in accordance with the drawings.

\*\* NOTE TO SPECIFIER \*\* Individual panels. Delete series not required.

* + 1. Product: Top supported, individual, Omni-Directional, acoustically insulated glass panels:
			1. Provide GU1 Ultra Model as furnished by Hufcor, Inc.

\*\* NOTE TO SPECIFIER \*\* Delete STC performance not required.

* + - * 1. Panel construction shall have obtained an STC rating of 36.
				2. Panel construction shall have obtained an STC rating of 45.

\*\* NOTE TO SPECIFIER \*\* Paired panels. Delete if not required.

* + 1. Product: Top supported, hinged pair, acoustically insulated glass panels:
			1. Provide GU2 Ultra Model as furnished by Hufcor, Inc.

\*\* NOTE TO SPECIFIER \*\* Delete STC performance not required.

* + - * 1. Panel construction shall have obtained an STC rating of 36.
				2. Panel construction shall have obtained an STC rating of 45.

\*\* NOTE TO SPECIFIER \*\* Panel construction for both individual and paired panels.

* + 1. Panel Construction:

\*\* NOTE TO SPECIFIER \*\* GU1 and GU2 Ultra models only. Delete if not required.

* + - 1. Panels shall be nominally 4 inches (102 mm) thick and to 48 inches (1219 mm) in width. Panels shall be laminated to appropriate substrate to meet the STC performance requirement. Frames shall be of 16 gauge (1.42mm) painted steel with rust inhibitor coating and integral factory applied aluminum vertical edge and face protection. View glass panel seals and gaskets shall be snap-on and shaped to suit the glass configuration and thickness.

\*\* NOTE TO SPECIFIER \*\* GU1 and GU2 Ultra models only. Delete if not required. Example: bottom 4 feet (1219 mm) section of high pressure laminate, vinyl or acoustical fabric and acoustical glass window at the top.

* + - * 1. View Glass Option: Panels shall have partial height view glass and opaque face panels as indicated or scheduled.

\*\* NOTE TO SPECIFIER \*\* GU1 and GU2 Ultra models only. Delete if not required.

* + - * 1. Hinged Closure Panel. (Maximum opening width of 7 panels). Full height hinged panel at one end of the opening hinged to a fixed two piece telescopic aluminum jamb and permanently attached in the opening. The hinged panel has top and bottom sweep seals and shall be fitted with an offset pull handle. The jamb panel requires a floor pin.

\*\* NOTE TO SPECIFIER \*\* GU1 and GU2 Ultra model with STC 36 only. Delete if not required.

* + - 1. Seals:
				1. Top horizontal seals shall be 1 inch (25 mm) fixed, continuous contact multi-layer vinyl sweep that maintains contact with the track.

\*\* NOTE TO SPECIFIER \*\* Standard construction. Delete if not required.

* + - * 1. Bottom horizontal seals shall be 1 inch (25 mm) fixed, continuous contact multi-layer vinyl sweep that maintains contact with the track.

\*\* NOTE TO SPECIFIER \*\* Optional construction. Delete if not required.

* + - * 1. Bottom horizontal seal shall be 2 inches (51 mm) fixed, continuous contact multi-layer vinyl sweep.

\*\* NOTE TO SPECIFIER \*\* Optional construction. Delete if not required.

* + - * 1. Bottom horizontal seal shall be retractable and provide up to 2 inches (51 mm) nominal operating clearance, exerting 40 lbs. of downward force when extended.
				2. Vertical sound seals shall be of tongue and groove configuration, ensure panel-to-panel alignment and prevent sound leaks between panels.

\*\* NOTE TO SPECIFIER \*\* GU1 and GU2 Ultra model with STC 45 only. Delete if not required.

* + - 1. Seals:
				1. Top horizontal seals shall be 1 inch (51 mm) fixed, continuous contact multi-layer vinyl sweep that maintains contact with the track.
				2. Two bottom horizontal seals shall be a combination of fixed, continuous contact multi-layer vinyl sweep and a retractable seal. The retractable seal provides up to 2 inches (51 mm) nominal operating clearance and exerts 40 lbs. of downward force when extended.
				3. Vertical sound seals shall be of tongue and groove configuration, ensure panel-to-panel alignment and prevent sound leaks between panels.

\*\* NOTE TO SPECIFIER \*\* For GU1 and GU2 Ultra models the maximum opening width cannot exceed 7 panels for hinged closure panel closure. Delete if not required.

* + - 1. Final partition closure shall be by hinged closure panel; a full height hinged panel at one end of the opening that hinges from a fixed two piece telescopic aluminum jamb. The hinged panel shall be fitted with an offset pull handle.

\*\* NOTE TO SPECIFIER \*\* Option for GU1 and GU2 Ultra models only. Delete panel closure above or option below. Delete if not required.

* + - 1. Final partition closure to be by expanding jamb which compensates for minor wall irregularities and provides seal force against the adjacent wall. The jamb activator shall be located approximately 42 inches (1.7 mm) from the floor in the panel face, both sides. The jamb is equipped with a mechanical rack and pinion gear drive mechanism and shall extend 4 -6 inches (100-152 mm) by turning the removable operating handle.

\*\* NOTE TO SPECIFIER \*\* GU1 and GU2 Ultra model STC 45 only. Delete if not required.

* + - 1. Glass: The glass shall be of factory installed nom. 2 inches (51 mm) dual laminated insulated glass unit. For heights 10 feet (3048 mm) and over, a horizontal panel splice is required for two glass units. Weight of Panels: 9.4 lbs./sq. ft.

\*\* NOTE TO SPECIFIER \*\* GU1 and GU2 Ultra model STC 36 only. Delete if not required.

* + - 1. Glass: The glass shall be of factory installed nom. 1/2 inch (13 mm) single pane tempered glass. For heights 10 feet (3048 mm) and over, a horizontal panel splice is required for two glass units. Weight of Panels: 9.4 lbs./sq. ft.

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - 1. Glass shall be provided with customized decals and etching as indicated or scheduled. Requires factory pre-approval.

\*\* NOTE TO SPECIFIER \*\* Suspension system construction for both individual and paired panels.

* + 1. Suspension System:
			1. Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6. Track design shall provide integral support for adjoining ceiling, soffit, or plenum sound barrier. Track shall be connected to the structural support by pairs of 3/8 inch (10 mm) dia. threaded steel hanger rods. L, T, or X intersections shall be factory assembled and welded. Built-in ceiling trim shall be of anodized aluminum finish providing enclosure of plenum sound barrier on both sides of the track for maximum sound control. A section of track shall be removable for panel removal for maintenance.

\*\* NOTE TO SPECIFIER \*\* GU1 Ultra Suspension System only. Delete if not required.

* + - * 1. Each panel shall be supported by two 2-wheeled dual horizontal counter-rotating carriers.

\*\* NOTE TO SPECIFIER \*\* GU2 Ultra Suspension System only. Delete if not required.

* + - * 1. Each panel shall be supported by one 4-wheeled carrier. Wheels to be of hardened steel ball bearings encased with molded polymer tires.

\*\* NOTE TO SPECIFIER \*\* Optional Suspension Support System. Delete if not required. Consult your Hufcor Distributor.

* + - 1. Unispan U900 Truss Support (for areas with insufficient overhead support and for select layouts): The panels shall be supported by the Unispan pre-engineered truss and post system fabricated of steel and aluminum. Unispan shall be attached to the building structure for lateral support only. The load of the truss and partition is supported by end columns. The columns are connected to floor plates that distribute the load of the system at the floor.
			2. Plenum Closure: Design of plenum closure must permit lifting out of header panels to adjust track height. Plenum closure required for optimum sound control of partition.

\*\* NOTE TO SPECIFIER \*\* Finishes for both individual and paired panels. GU1 and GU2 Ultra models finishes only. Delete if not required.

* + 1. Finish:

\*\* NOTE TO SPECIFIER \*\* Delete finish not required. The first finish option is standard. Other options are available for an additional charge.

* + - 1. Panel trim and exposed metal shall be powdered coated Clear Satin Metallic.
			2. Baked powder coating: Black textured color.
			3. Baked powder coating: Dark Bronze textured color.
			4. Baked powder coating: Sky White textured color.
			5. Baked powder coating: Textured, custom color. Architect to select RAL color, subject to factory approval.
			6. Fixed, continuous contact sweep seals and sound gaskets shall be black color.

\*\* NOTE TO SPECIFIER \*\* Accessories for both individual and paired panels. Delete if not required.

* + 1. Accessories:

\*\* NOTE TO SPECIFIER \*\* GU1 and GU2 Ultra. Delete if not required.

* + - 1. Pass Door: ADA compliant "U" shaped pass door allows the pass door to be located in any location in the opening. The pass door includes a self-closer. Hardware consists of a panic bar on one side and lever handle on the opposite side.

\*\* NOTE TO SPECIFIER \*\* Options. Delete options not required.

* + - 1. Pass door lever handle on both sides of pass doors.
			2. Locks. Doors and hinged closure panels shall include a keyed lock on one side and thumb turn on the opposite side.

\*\* NOTE TO SPECIFIER \*\* Operation for both individual and paired panels. Delete if not required.

* + 1. Operation:
			1. Panels shall be manually moved from the storage area, positioned in the opening, and the closure panel is closed or extended.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Retractable Horizontal Seals: Retractable horizontal seals shall be activated by a removable quick-set operating handle located in the panel edge.
			2. Stack/Store Panels: Retract seals and move to storage area.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required or delete product not required.

* 1. TIMBER-FRAMED GLASS PANEL SYSTEM
		1. Product: Top supported, individual wood-framed glass panel system.
			1. Provide Series GT1 as manufactured by Hufcor.
		2. Product: Top supported, center stacked paired wood-framed glass panel system.
			1. Provide Series GT2 as manufactured by Hufcor.
		3. Panel Construction:
			1. Panels shall be nominally 1-3/4 inches (43mm) thick and to 48 inches (1219 mm) in width.
			2. Wood frame of triple laminated solid wood top and bottom rails and stiles shall be constructed from wood veneers with an engineered wood core.

\*\* NOTE TO SPECIFIER \*\* Optional available standard species. Delete species not required. Prices vary.

* + - * 1. Wood veneer species shall be Red Oak.
				2. Wood veneer species shall be Maple.
				3. Wood veneer species shall be Cherry.
				4. Wood veneer species shall be Douglas Fir.
				5. Wood veneer species shall be Poplar.
				6. Wood veneer species shall be customer selected species. Requires factory approval for manufacturing compatibility.
			1. Vertical lead rails shall contain full height partially recessed rubber bulb seal
			2. Horizontal top & bottom rails shall incorporate continuous contact seals of brown multi-ply vinyl.
			3. Each panel shall contain a mortise floor pin which extends into a floor mounted plate to stabilize and secure each panel in the opening.
			4. Glass shall be clear tempered per ASTM C1048-97b.

\*\* NOTE TO SPECIFIER \*\* 1/4 inch tempered glass is standard. Optional glass, acrylics 7, 8, 9, 10, are all available on both GT1 and GT2 models. Delete types not required.

* + - 1. Glass shall be 1/4 inch (6mm) tempered.
			2. Glass shall be 1/4 inch (6mm) full satiny translucent tempered.
			3. Glass shall be Custom glass. Factory approval required.
			4. Glass shall be acrylic. Factory approval required.
			5. Glass shall be glazed using matching solid wood stops one side of panel.

\*\* NOTE TO SPECIFIER \*\* Delete tempered glass panel weight if tempered glass is not specified.

* + - 1. Weight of the panels for 1/4 inch (6 mm) tempered glass panel shall be approximately 7.5 lbs. per sq. ft.
		1. Suspension System:
			1. Track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6. Track design shall provide integral support for adjoining ceiling, soffit, or plenum sound barrier. Track shall be connected to the structural support by pairs of 3/8 inch (10 mm) dia. threaded steel hanger rods.

\*\* NOTE TO SPECIFIER \*\* GT1 only. Delete if not required.

* + - * 1. Each panel shall be supported by two 2-wheeled counter-rotating horizontal carriers. Wheels to be of precision ground steel ball bearings encased with molded polymer tires.

\*\* NOTE TO SPECIFIER \*\* GT2 only. Delete if not required.

* + - * 1. Each panel shall be supported by one 2-wheeled or 4-wheeled carrier. Wheels to be of hardened steel ball bearings encased with molded polymer tires.
		1. Finishes:
			1. Aluminum track shall be clear anodized.
			2. Wood frame shall be furnished stained or painted and finished with a matte polyurethane.

\*\* NOTE TO SPECIFIER \*\* Delete stain colors not required.

* + - 1. Stain color shall be Fruitwood.
			2. Stain color shall be Dark Oak.
			3. Stain color shall be Wheat.
			4. Stain color shall be Cordovan.
			5. Paint color shall be Black.
			6. Paint color shall be White.
			7. Primed for field painting.

\*\* NOTE TO SPECIFIER \*\* Upgrade stain selections with upcharge. Due to variation of wood grains and moisture content, Hufcor will attempt to closely match custom stains, however, exact stain matching cannot be guaranteed. Delete if not required.

* + - 1. Stain color shall be a custom stain.

\*\* NOTE TO SPECIFIER \*\* Although care is taken to ensure products do not warp or twist, unfinished panels may experience wood warpage due to humidity and heat variations. Customer assumes responsibility for proper finishing and no warranty will be provided. Delete if not required.

* + - 1. Panels shall be unfinished for field finishing.

\*\* NOTE TO SPECIFIER \*\* Standard hardware finish available. Delete finish not required.

* + - 1. Hardware shall be Polished Brass.
			2. Hardware shall be Antique Brass.
			3. Hardware shall be Satin Nickel.
			4. Hardware shall be Polished Chrome.
			5. Hardware shall be Matte Black.
			6. Hardware shall be Oil Rubbed Bronze.
		1. Accessories:

\*\* NOTE TO SPECIFIER \*\* GT1 only. Optional. Delete if not required.

* + - 1. Hinged Pass Door: Same thickness and construction as the basic panels, one-way swing. Door to be full height and hinged to an anchor panel.
				1. Provide Hoppe Munchen style handle

\*\* NOTE TO SPECIFIER \*\* Optional upgrade. Delete if not required.

* + - * 1. Provide lock keyed for Schlage brand

\*\* NOTE TO SPECIFIER \*\* Optional. Delete if not required.

* + - 1. Hinged closure panel of the same thickness and construction as the basic panels, one-way swing:
				1. Provide Hoppe, Munchen style lever handle.

\*\* NOTE TO SPECIFIER \*\* Optional upgrade. Delete if not required.

* + - * 1. Provide lock keyed for Schlage brand.

\*\* NOTE TO SPECIFIER \*\* Delete floor locks not required.

* + - 1. Floor Locks: Adams Rite thumb turn floor lock.
			2. Floor Locks: Adams Rite keyed floor lock.
		1. Operation:
			1. Panels shall be manually moved from the storage area, positioned in the opening, and either edge activated or face activated floor bolts set.

\*\* NOTE TO SPECIFIER \*\* Delete final partition closure not required.

* + - 1. Final closure shall be by hinged closure with lever handle.
			2. Final closure shall be by overlapping the opening
			3. Final closure shall be by 2 inches (51 mm) trail gap.
			4. Stack/Store Panels: Retract floor bolt and move to storage area. Panels are stored on stacks in storage area(s).
		1. Installation:
			1. Install in accordance with manufacturer's instructions. Installation to be by an authorized factory-trained installer.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. STRUCTURAL TRUSS SUPPORT SYSTEM
		1. Independent Structural Support Truss:
			1. Product: U900 Unispan as manufactured by Hufcor Inc.
				1. Operable partitions installed in the Unispan system shall be manually operated.
				2. Unispan shall be designed to be disassembled and relocated to an alternate location as needed.
			2. The Unispan system shall be validated by calculations performed by a licensed Professional Engineer.
				1. The horizontal truss shall weigh 10-12 lbs. per lineal foot of width.
				2. The support columns shall weigh 3.5 lbs. per foot of height each.
				3. The floor shall be verified to support a maximum of 360 psi at each post.
			3. The supporting truss shall be factory fabricated of steel and aluminum. Unispan is attached to the building structure for lateral support only. The load of the truss and partition is supported by the Unispan column posts. Bolt together truss has anodized aluminum top and bottom cords with integral anodized aluminum track and steel web-members.
			4. Posts. End columns shall be 2-1/2 inches x 5 inches (63.5 x 127 mm) clear anodized aluminum posts. Posts shall be attached to the truss with steel brackets and bolts. Posts shall be anchored to the floor with concealed fasteners. Posts shall be located approximately 1-1/2 inches (38 mm) from adjacent wall surfaces. The space between the post and the adjacent wall shall be fitted with a vinyl gasket to inhibit sound.
			5. Ceiling anchors provide lateral support and shall be set at intervals across the span of the beam. Blocking for ceiling anchors to be provided by others in accordance with the plans.
			6. Exposed trim and track shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6.
			7. Posts shall be of clear anodized architectural grade extruded aluminum alloy 6063-T6.

\*\* NOTE TO SPECIFIER \*\* Finish required to cover sides of truss when exposed below the ceiling. Delete if not required.

* + - 1. Medium Density Fiberboard Header Side Panels:

\*\* NOTE TO SPECIFIER \*\* Delete finish material not required.

* + - * 1. Vinyl Covered: Color to be selected from partition manufacturer's standard line.
				2. Carpet Covered: Color to be selected from partition manufacturer's standard line.
				3. Fabric Covered: Color to be selected from partition manufacturer's standard line.
				4. Unfinished for field finishing

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide mineral wool insulation for sound retardation.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Ship truss in sections to be assembled on site. Confirm size of sections for use in areas with limited access.
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until substrates have been properly prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions.
		2. The complete installation of the operable wall system shall be by an authorized factory-trained installer and be in strict accordance with the approved shop drawings and manufacturer's standard printed specifications, instructions, and recommendations.
		3. Perform field sound test to confirm installation acoustical performance.
	4. CLEANING
		1. All track and panel surfaces shall be wiped clean and free of handprints, grease, and soil.
		2. Packaging and other installation debris shall be removed to onsite waste collection area, provided by others.
	5. PROTECTION AND TRAINING
		1. Installer shall demonstrate proper operation and maintenance procedures to Owner's Representative.
		2. Operating handle and Owner's manuals shall be provided to Owner's representative.
		3. Protect installed products until completion of project.
		4. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION