SPECIFICATION – SECTION 10 22 26 (10650) OPERABLE PARTITIONS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract including General and Supplementary Conditions and Division 01 Specification Selections apply to this Section.

1.2 SUMMARY

A. This Section includes the following:

1. Manually operated, individual glass panel partitions.

B. Related Sections include the following:

1. Division 03 Sections for concrete tolerances required.
2. Division 05 Sections for primary structural support, including pre-punching of support members by structural steel supplier per operable partition supplier's template.
3. Division 06 Sections for wood framing and supports, and all blocking at head and jambs as required.
4. Division 08 Sections for lock cylinders and keying requirements.
5. Division 09 Sections for wall and ceiling framing at head and jambs.

1.3 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer who is certified in writing by the glass operable partition manufacturer, as qualified to install the manufacturer's partition systems for work similar in material, design, and extent to that indicated for this Project.

B. Preparation of the opening shall conform to the criteria set forth per ASTM E557 *Standard Practice for Architectural Application and Installation of Operable Partitions.*

1.4 SUBMITTALS

A. Product Data: Material descriptions, construction details, finishes, installation details, and operating instructions for each type of operable glass panel partition, component, and accessory specified.

B. Shop Drawings: Show location and extent of operable glass panel partitions. Include plans, elevations, sections, details, attachments to other construction, and accessories. Indicate dimensions, weights, conditions at openings, and at storage areas, and required installation, storage, and operating clearings. Indicate location and installation requirements for hardware and track, including floor tolerances required and direction of travel. Indicate blocking to be provided by others.

C. Setting Drawings: Show imbedded items and cutouts required in other work, including support beam punching template.

D. Samples: Color samples demonstrating full range of finishes available by architect. Verification samples will be available in same thickness and material indicated for the work.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Clearly mark packages and panels with numbering systems used on Shop Drawings. Do not use permanent markings on panels.

B. Protect panel and glazing materials during delivery, storage, and handling to comply with manufacturer's direction and as required to prevent damage.

1.6 WARRANTY

A. Manufacturer's Special Project Warranty on Glass Panels: Provide written warranty signed by the manufacturer of glass operable partitions agreeing to replace those panels with manufacturing defects.

1. Manufacturing defects are defined as any defect materially obstructing vision through the glass, and mechanical failure of hardware which prevents the proper operation of the panels after appropriate installation.
2. Warranty period: One (1) year from date of installation.

PART 2 – PRODUCTS

2.1 MANUFACTURERS, PRODUCTS, AND OPERATION

A. Manufacturers: Subject to compliance with requirements, provide products by the following:

1. Modernfold, Inc.

B. Products: Subject to compliance with requirements, provide the following product:

1. Modernfold Glass Wall Model COMPACTLINE® with 4-7/8-inch (124mm) contoured top and bottom rails.

2.2 OPERATION

A. Manually operated and top-supported series of individual glass panels. Panels use two-piece, clamp-on

top and bottom rail that fastens together from alternating sides:

1. Final Closure ***(Select One)***:
    a. Pivot panel
    b. Standard intermediate panel ending within storage pocket, or at face of storage pocket.

2.3 PANEL CONSTRUCTION

A. Provide top reinforcement as required to support panel from suspension components and provide reinforcement for hardware attachment. Fabricate panels with concealed fasteners. Finished in-place partition shall be rigid, level, plumb, aligned with uniform joints and appearance, free of bow, warp, twist, deformation, and surface and finish irregularities.

B. Dimensions: Fabricate operable glass panel partitions with manufacturer's standard panel sizes to form an assembled system of dimensions indicated on Drawings and verified by field measurements.

1. Maximum panel width: 48-inches (1219 mm)
2. Standard rail thickness: 1-5/8 inches (41 mm)

C. Top and Bottom Rails: Continuous two-piece assemblies with removable end caps. Rails fasten together from alternate sides of partition allowing for field adjustment to job site conditions. Covers are furnished to facilitate installation.

D. Bottom Rail Locking System: Engage adjacent panels by use of interlocking floor bolts to stabilize panels from movement in all directions.

1. Equip a minimum of one end panel with a brass, mortised lock allowing for cylinder and/or thumb turn operation. Round bolts engage dust-proof floor strikes for security.
2. Pivot panels to have mortised cylinder with key and thumb turn.
3. Intermediate panels to have interconnecting floor bolts.
4. Lead panels to have mortised cylinder with thumb turn.

E. Fully Framed (Optional): Extruded aluminum vertical stiles measuring 7/8 inch (22 mm) by 51/64 inch (20 mm) with a minimum wall thickness of 3/32 inch (2 mm). Vertical stile shall have integral channel to accept vinyl seals used to create panel joints and panel interfaces. Stile shall be continuous and run the entire length of the panel covering both rails and glass edge. Stile applied to glass using a two-part epoxy. Silicone applied stiles are not acceptable.

2.4 MATERIALS

A. Aluminum: Alloy and temper recommended by aluminum producer and finisher for type of use, corrosion resistance, and finish indicated; ASTM B221 (ASTM B221M) for extrusions; manufacturer's standard strengths and thicknesses for type of use.

B. Glass Type: Tempered, ½-inch (25 mm) complying with safety standards specified in ANSI Z97.1 CPSC16, CFR1201, ASTM C1036 and ASTM C1048.

C. Glass Finish ***(Select One)***:

1. Clear tempered
2. Frosted tempered
3. Low-iron tempered

2.5 PANEL FINISHES

A. Provide top and bottom rails with one of the following finishes:

1. Clear satin anodized aluminum
2. Satin stainless steel anodized aluminum

2.6 SUSPENSION SYSTEM *(Select One)*:

A. G-150 Suspension System

1. Suspension Tracks: Extruded aluminum with a minimum wall thickness of 0.235 inches (6 mm). Incorporate cast aluminum or mitered intersections, switches, and curves in stacking area. Provide alignment pins for track, intersections, switches, and curves insuring both fit and roller surface integrity.
    a. Exposed track soffit: Factory-finished aluminum with white powder coat.
2. Carriers: Two stainless steel trolleys with vinyl roller surfaces. Trolley design incorporates eight (8) wheels of varying dimensions. Automatic indexing of panels into stack area is provided by pre-programmed switches and trolleys without electrical, pneumatic, or mechanical activation.

2.7 OPTIONS

A. Pass Doors

1. Sliding Swing Door: Top hung operating swing door, rails heights to match partition rails providing uniform appearance.
2. Hardware
    a. Automatic door closer
    b. Push/Pull Bars
    c. Mortise Cylinder Floor Locks

PART 3 – EXECUTION

3.1 INSTALLATION

A. General: Comply with ASTM E557, operable glass partition manufacturer's written installation instructions, Drawings, and approved Shop Drawings.

B. Install operable glass partitions and accessories after other finish operations, including painting, have been completed.

C. Match operable glass partitions by installing panels from marked packages in numbered sequence indicated on Shop Drawings.

D. Broken, cracked, chipped, deformed, or unmatched panels are not acceptable.

3.2 CLEANING AND PROTECTION

A. Clean metal and glass surfaces upon completing installation of operable glass partitions to remove dust, loose fibers, fingerprints, dirt, adhesives, and other foreign materials according to manufacturer's written instructions.

B. Provide final protection and maintain conditions in a manner acceptable to the manufacturer and installer that ensure operable glass partitions are without damage or deterioration at time of Substantial Completion.

3.3 ADJUSTING

A. Adjust operable glass partitions to operate smoothly, easily, and quietly, free from binding, warp, excessive deflection, distortion, nonalignment, misplacement, disruptions, or malfunction, throughout the entire operation range. Lubricate hardware and other moving parts.

3.4 EXAMINATION

A. Examine flooring, structural support, and opening, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of operable glass partitions. Proceed with installation only after unsatisfactory conditions have been corrected.

1. Ensure finished floor under operable glass partition is level ± 0.13-inch (3 mm) in ten (10) feet (3048 mm) non-cumulative.

3.5 DEMONSTRATION

A. Demonstrate proper operation and maintenance procedures to Owner's representative.

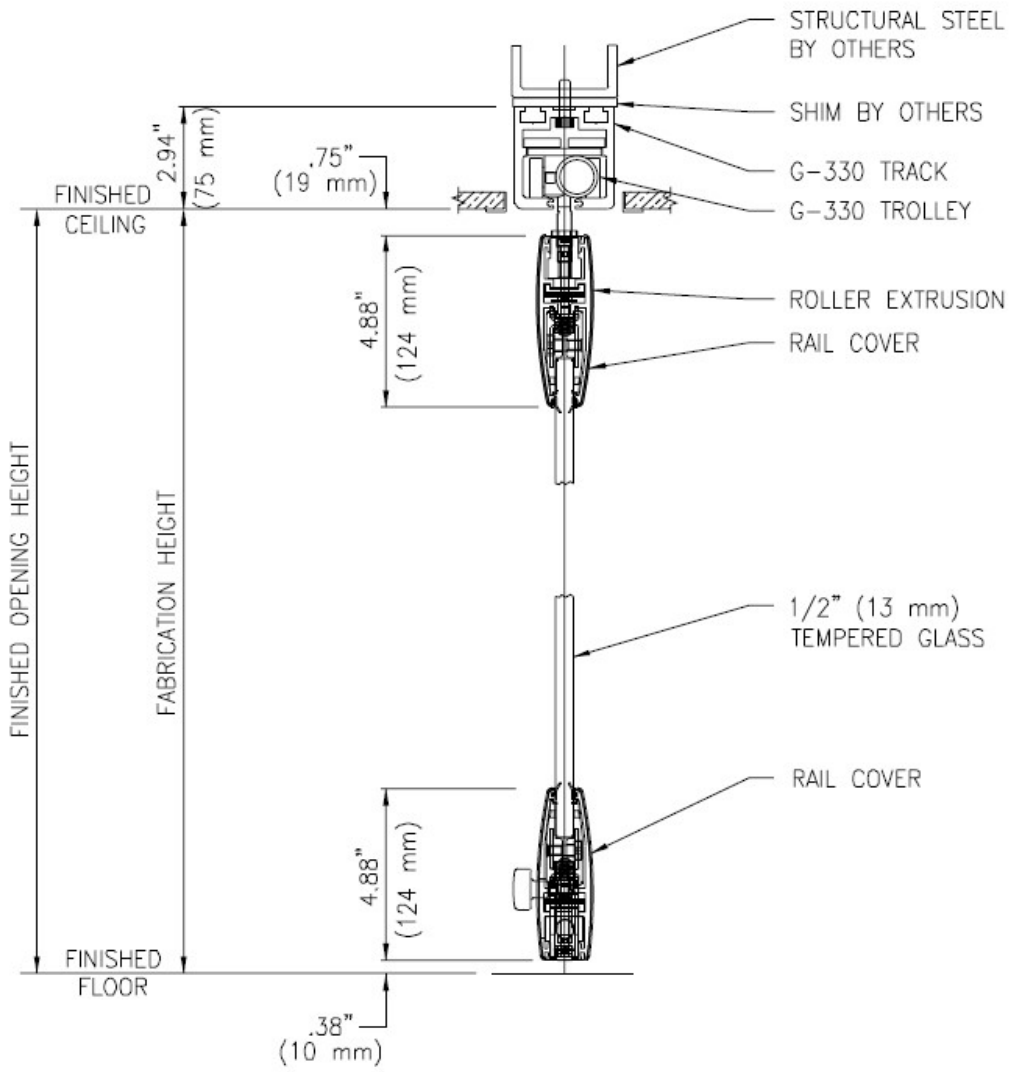
B. Provide Operation and Maintenance Manual to Owner's representative.

PANEL SECTION

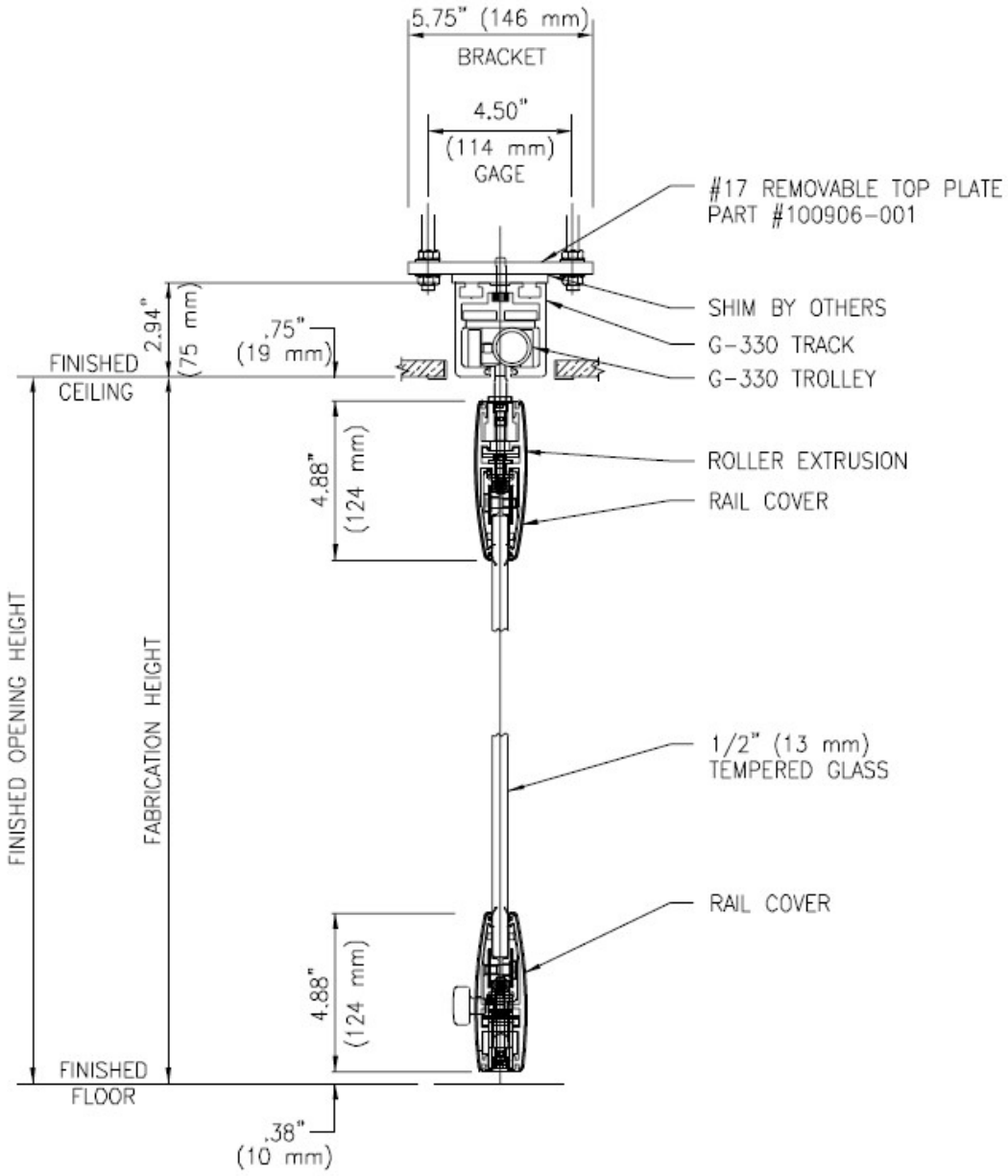
	Max. System Height	Min. Panel Width	Max. Panel Width	Max. Panel Weight
Pivot Panel	*10'-0"	2'-0"	4'-0"	300 lbs
Intermediate Panel	*10'-0"	2'-0"	4'-0"	300 lbs.
Convertible Panel	*10'-0"	3'-0"	3'-0"	270 lbs.

* Above 10'-0" up to 12'-0" consult factory.
Example: Maximum height is 10'-0" with 4'-0" wide panel and maximum width is 3'-4" with 12'-0" tall panel.

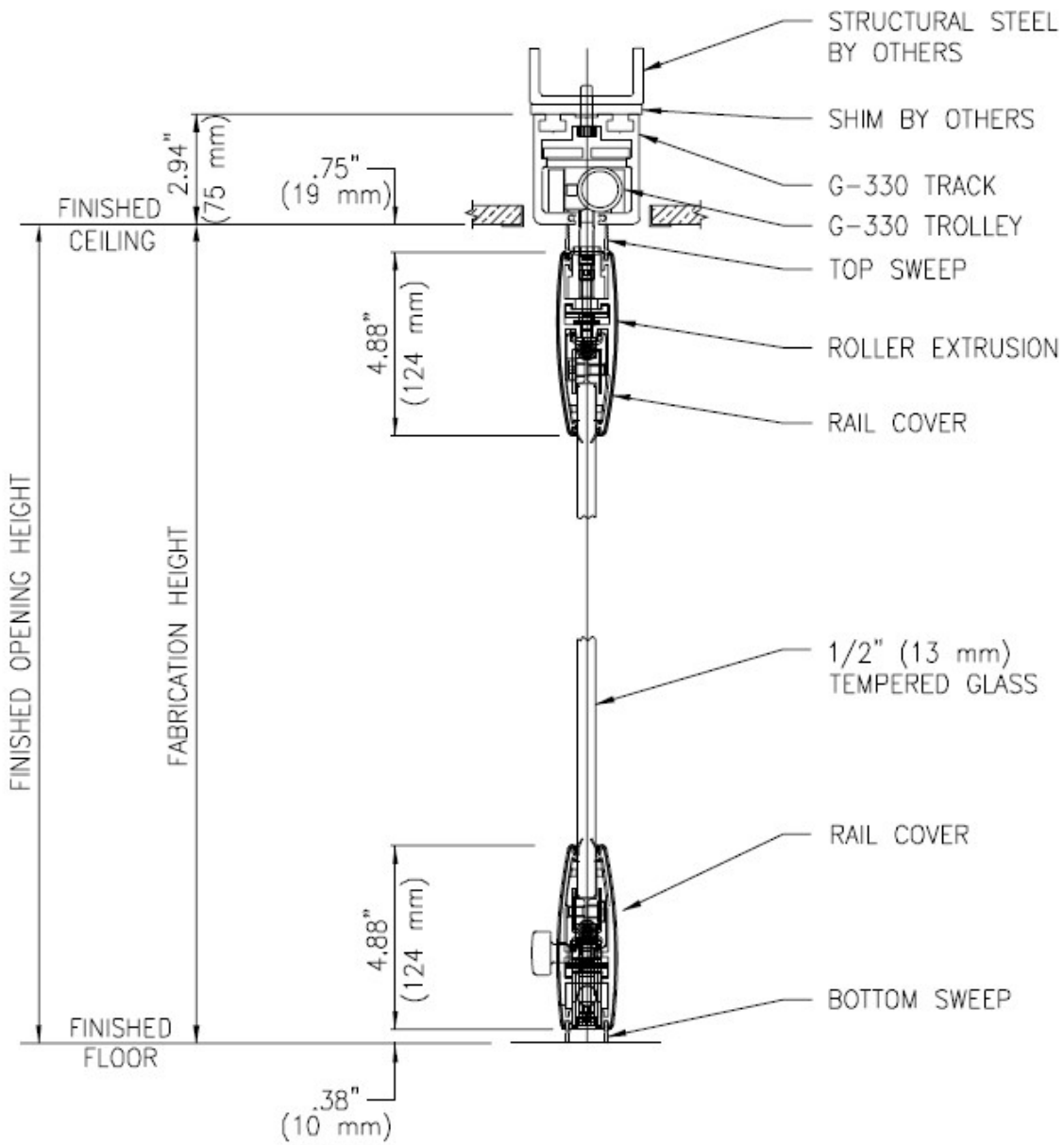
G330 Track System Direct Mount



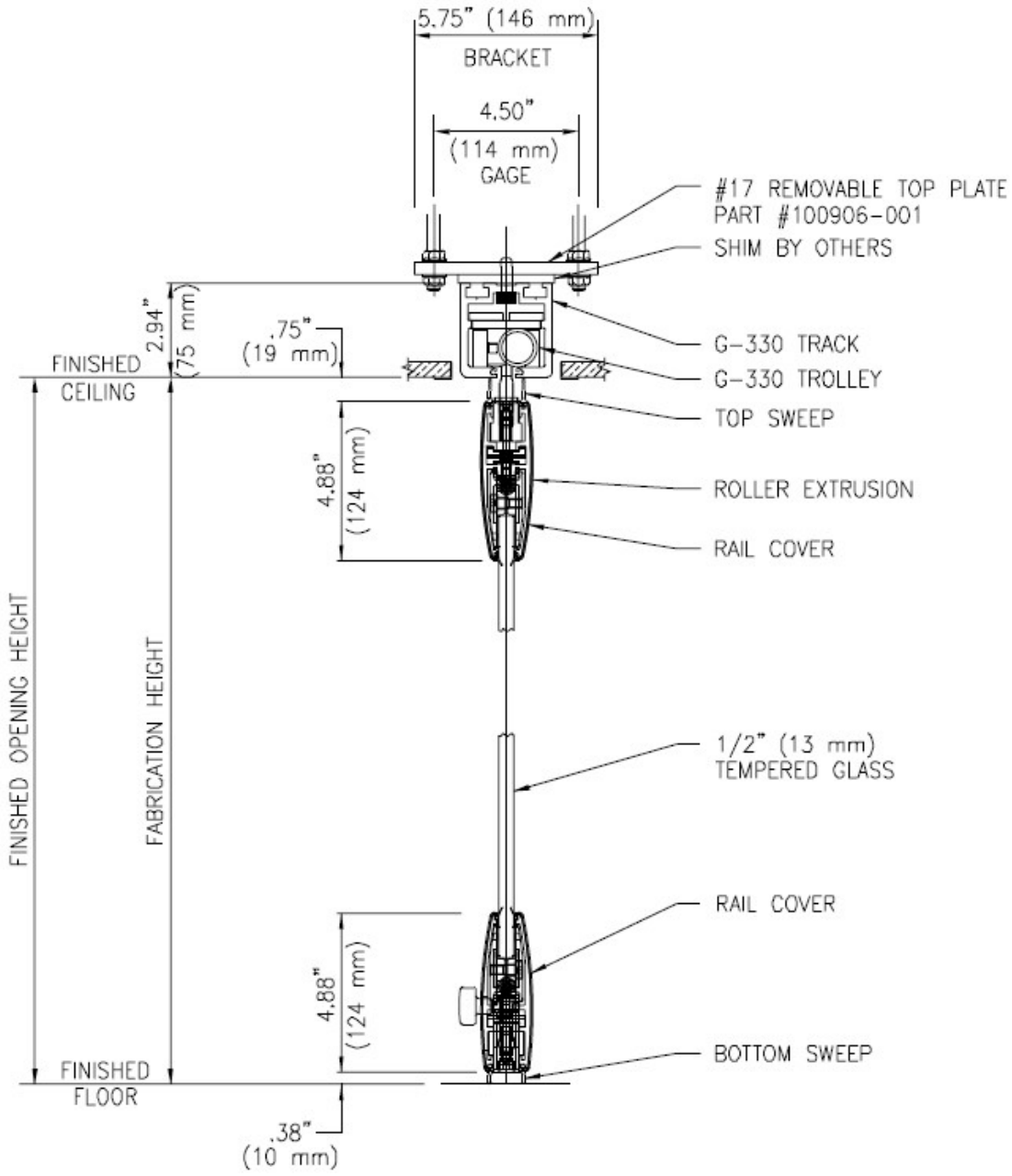
G330 Track System Bracket Mount



G330 Track System Direct Mount (with Top and Bottom Seals)

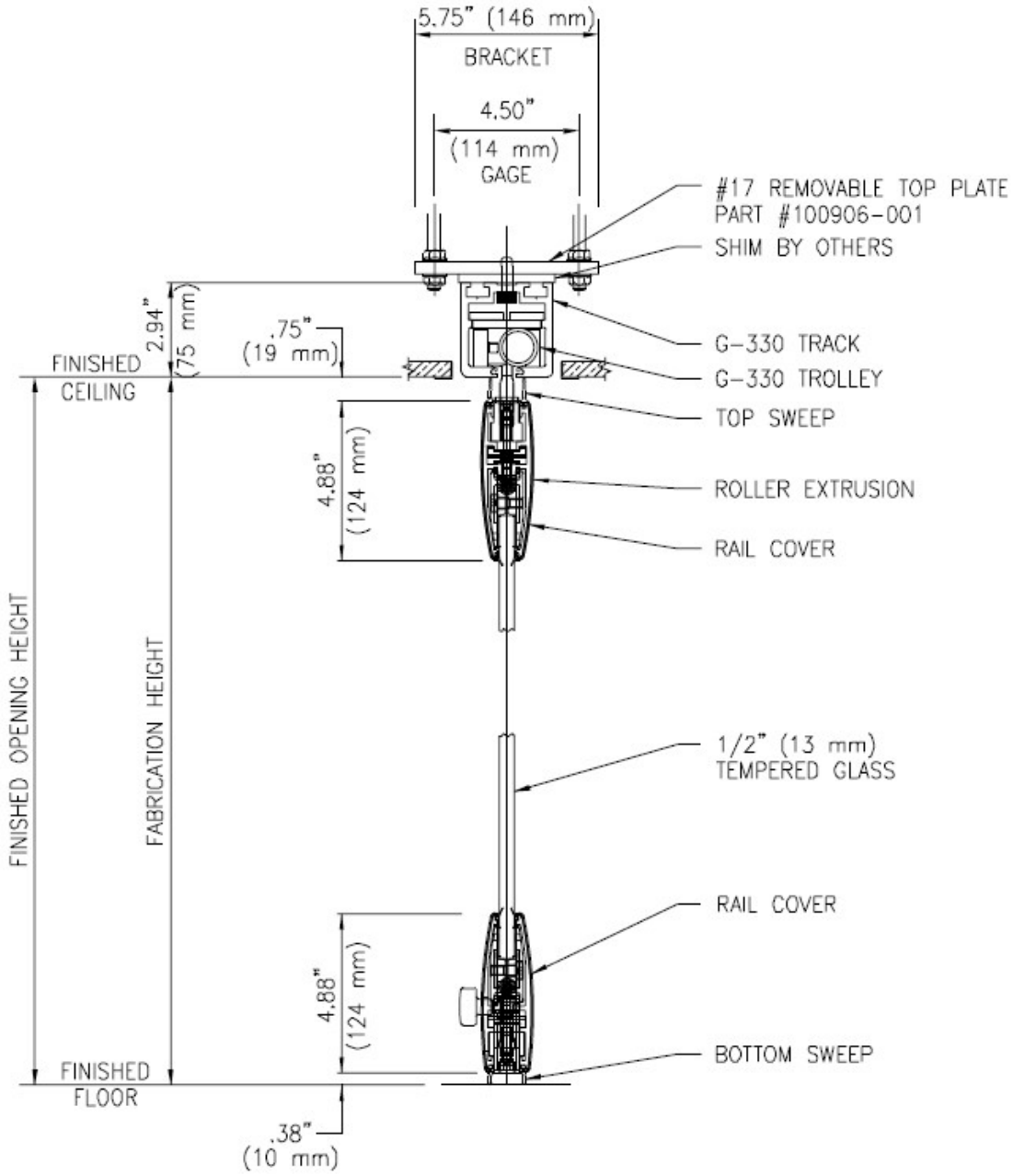


G330 Track System Bracket Mount (with Top and Bottom Seals)



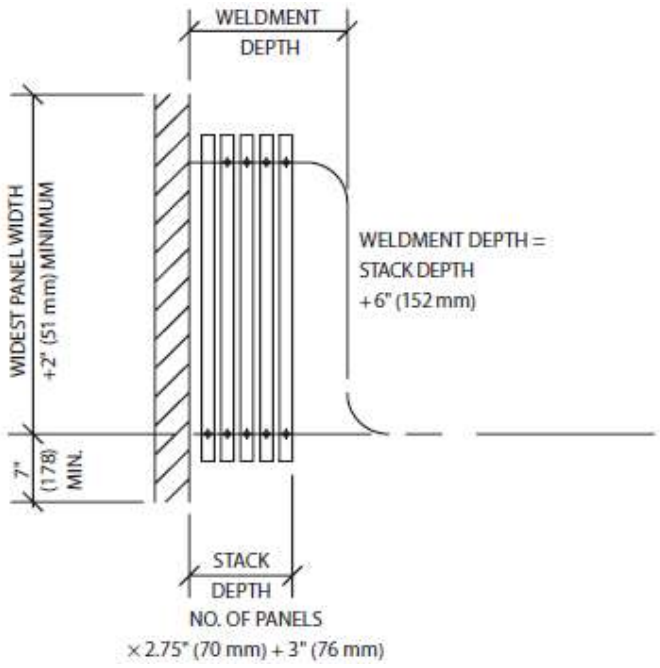
SECTION THROUGH PASS DOOR WITH CONCEALED TOP CLOSER

G330 Track System Direct Mount

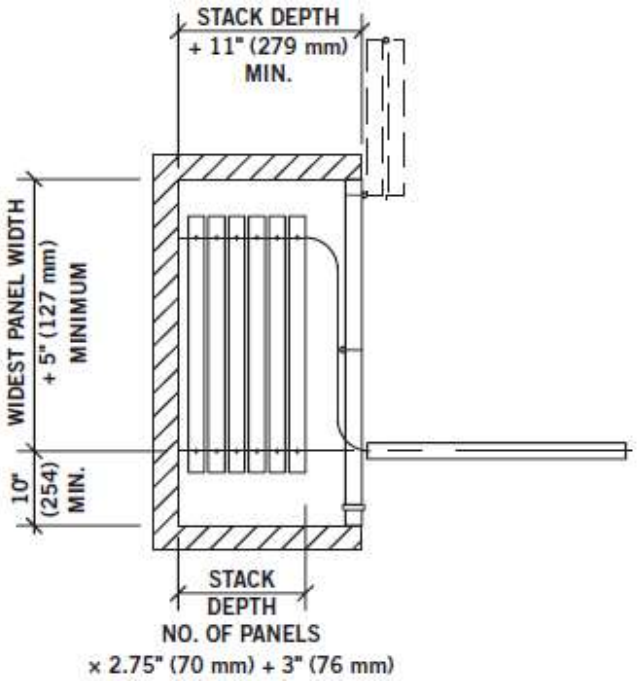


STACKING CONFIGURATIONS

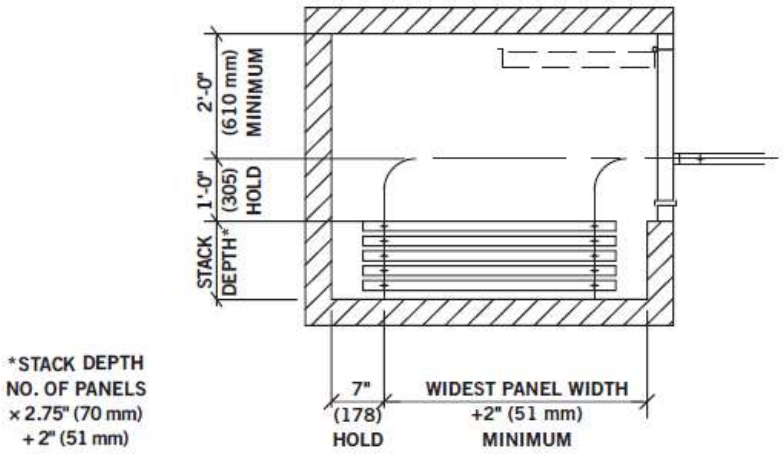
Pivot Panel Closure 90° Side Stack



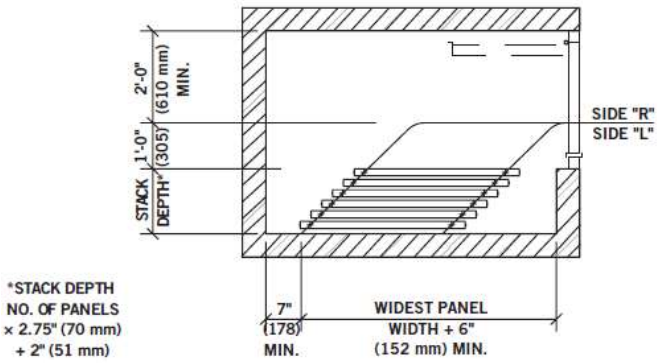
Intermediate Panel Closure 90° Side Stack (Remote)



Intermediate Panel Closure Parallel Side Stack (Remote)

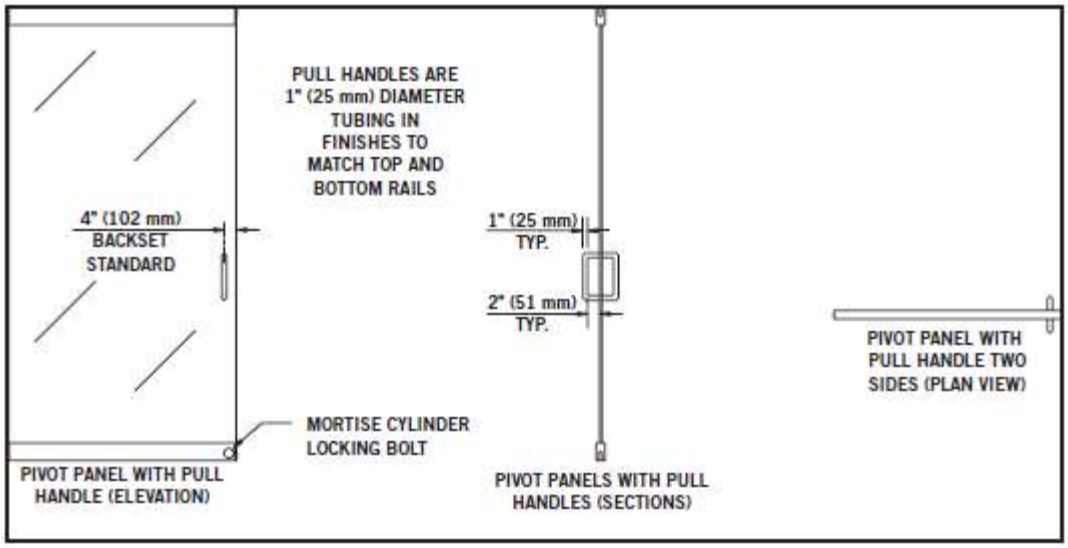


Intermediate panel Closure 135° Side Stack (Remote)

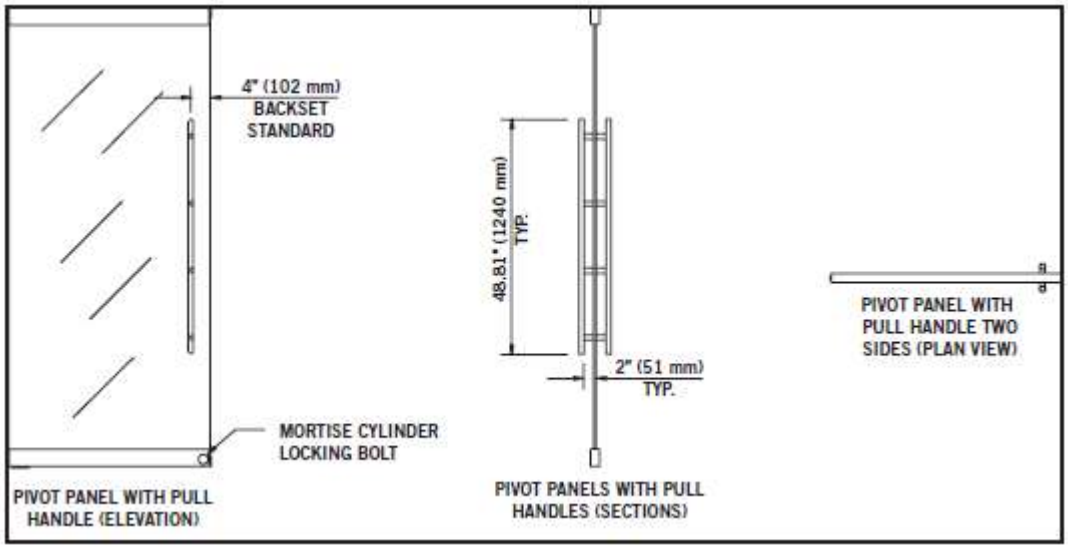


PIVOT PANEL/PASS DOOR HARDWARE OPTIONS

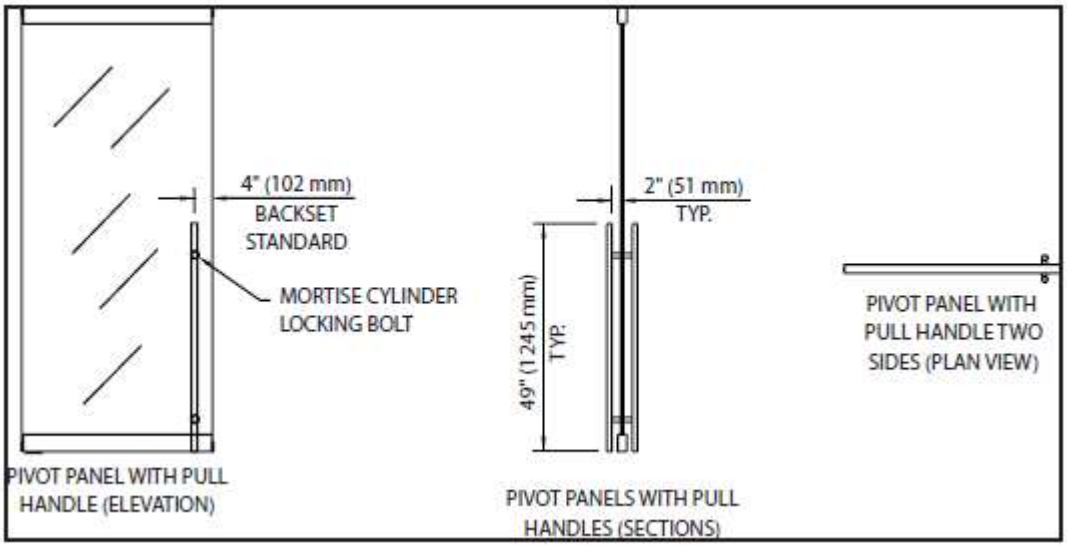
12" (305MM) Door Pull – Back to Back



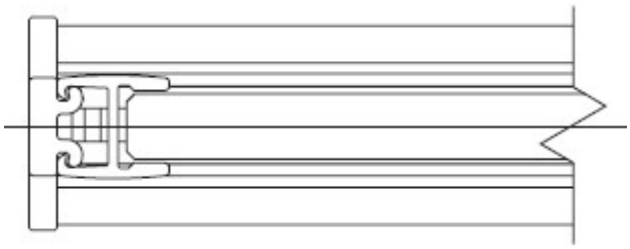
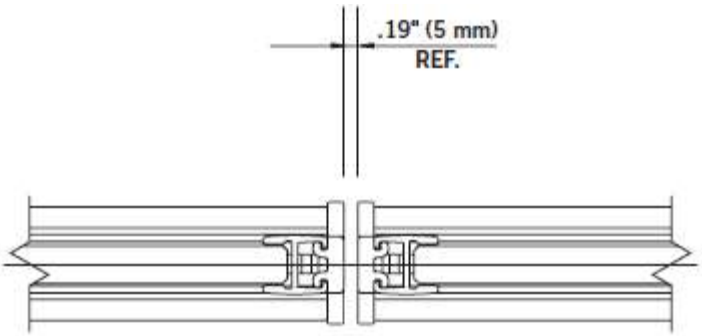
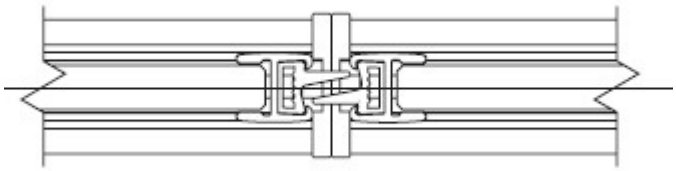
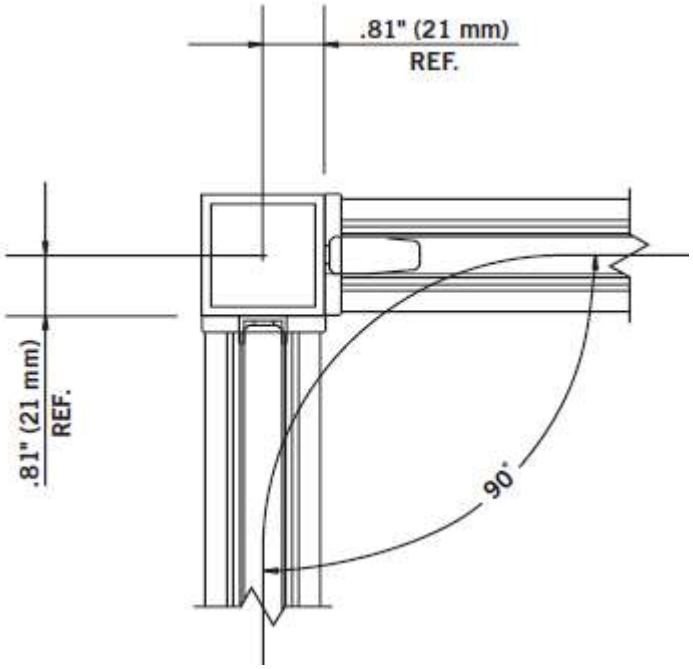
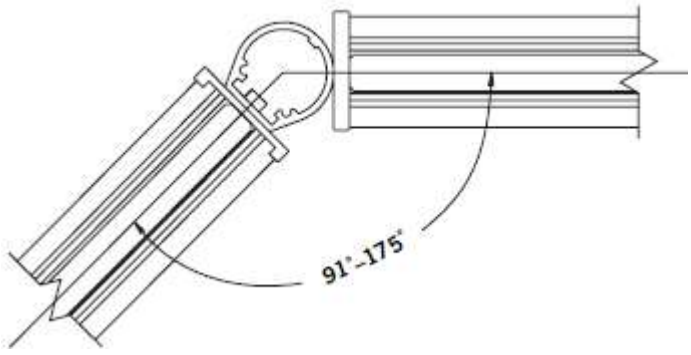
48.81" (1240mm) Ladder Pull – Back to Back



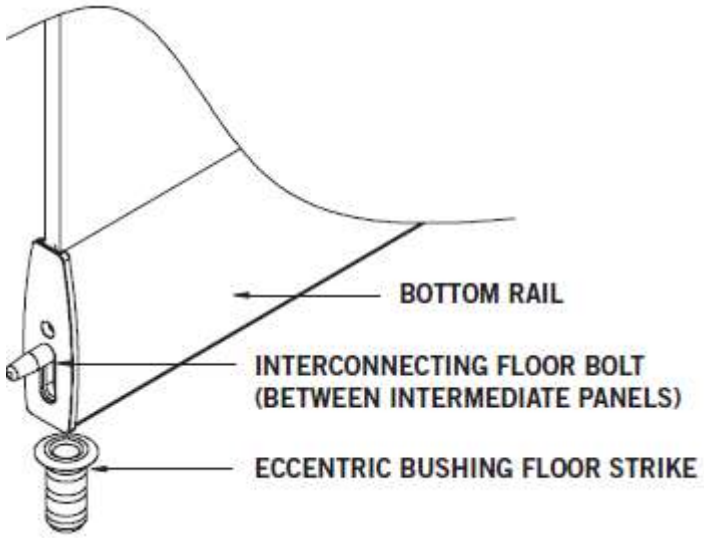
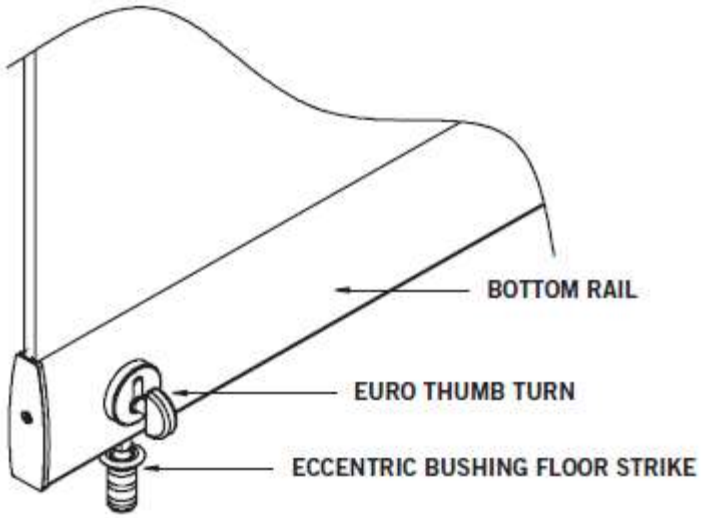
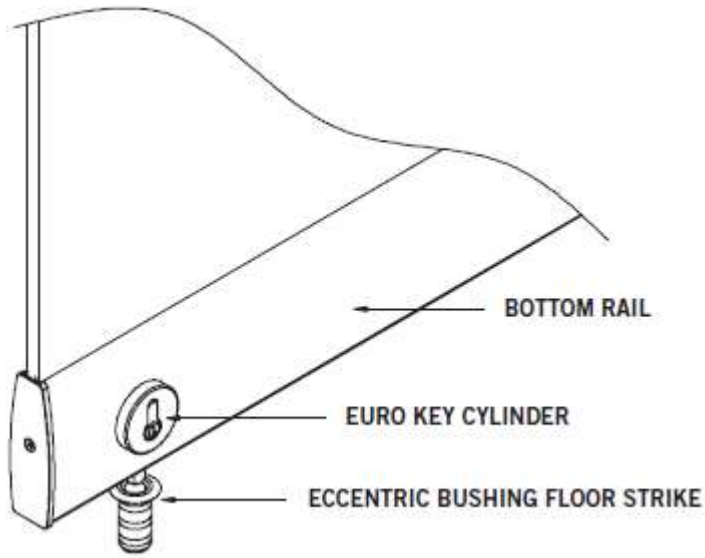
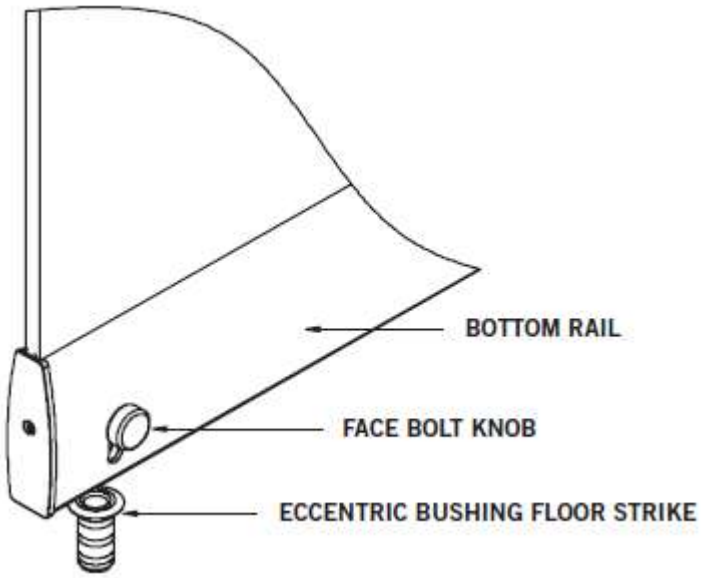
49" (1245mm) Locking Ladder Pull – Back to Back

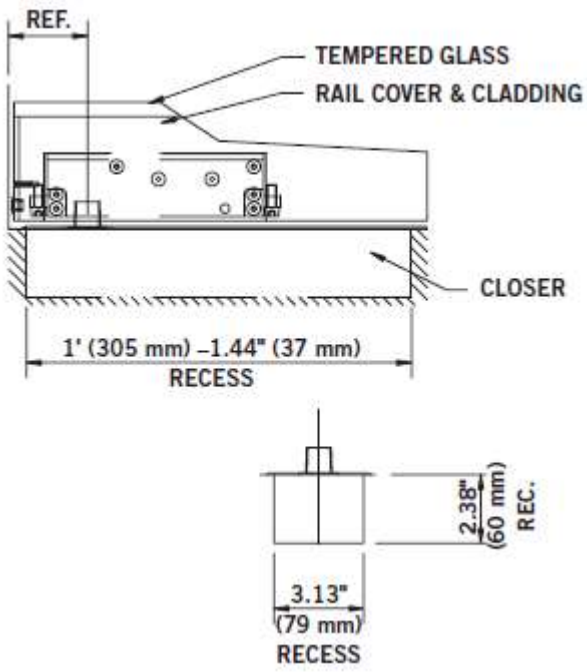
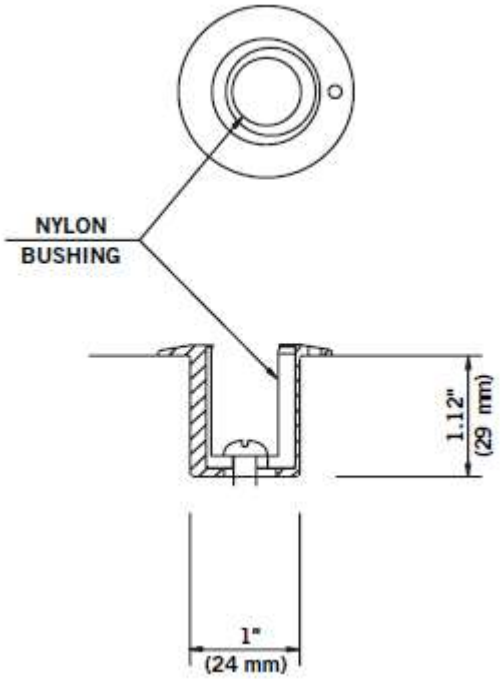


HARDWARE OPTIONS – FULLY FRAMED

Edge Trim	Pivot Interface
	
Panel Interface	**Corner Post**
	
Angular Meeting	
	

HARDWARE OPTIONS

Interconnecting Floor Bolt	Mortise Cylinder Locking Bolt (Thumb Turn)
	
Mortise Cylinder Locking Bolt (Keyed)	**Face-Mounted Locking Bolt**
	

BTS80 Door Closer	Floor Strike for Floor Bolts (Eccentric Bushing)
	

Form 2526

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