

SECTION 10 22 00
FRAMELESS SINGLE TRACK SLIDING PARTITION
SECTION 10 22 43
SLIDING GLASS PARTITION

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes furnishing and installing a top-hung, aluminum and glass, individual panel, sliding wall system that includes:
 - 1. Aluminum rails
 - 2. Top track with parking bay(s)
 - 3. Sliding panels
 - 4. Single/Double action end panel(s)
 - 5. Single action sliding panel(s)
 - 6. Sliding/swinging hardware
 - 7. Locking hardware
 - 8. Door closers
 - 9. Sealing brushes and gaskets
 - 10. Glass and glazing
 - 11. Panic hardware by others
 - 12. Suspended ceiling support profile
 - 13. Accessories as required for a complete working installation
- B. Related Documents and Sections: Contractor to examine Contract Documents for requirements that directly affect or are affected by Work of this Section. A list of those Documents and Sections include, but is not limited to, the following:
 - 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 General Requirements, Specification Sections, apply to this Section.
 - 2. Section 06 10 00, Rough Carpentry: Wood framing R.O. and blocking.
 - 3. Section 07 90 00, Joint Protection.
 - 4. Section 08 32 26, All Glass Single Track Sliding System: NanaWall HSW75.
 - 5. Section 08 32 26, All Glass Center Pivot System, NanaWall CSW75.
 - 6. Section 08 32 26, All Glass Folding System, NanaWall FSW75.
 - 7. Section 08 42 23, Glass Entrance Swing Doors.
 - 8. Section 09 22 16, Non-Structural Metal Framing: Metal framing R.O. and reinforcement.
 - 9. Section 10 22 39, All Glass Center Pivot Partitions: NanaWall CSW75.
 - 10. Section 10 22 39, All Glass Folding Partitions: NanaWall FSW75.

1.02 REFERENCES

- A. Reference Standards in accordance with Division 01 and current editions from the following:

1. AAMA. American Architectural Manufacturers Association; www.aamanet.org
 - a. AAMA 611, Voluntary Specification for Anodized Architectural Aluminum
 - b. AAMA 920-11, Specification for Operating Cycle Performance of Side-Hinged Door Systems
 - c. AAMA 1304-02, Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems
 - d. AAMA 2604, Voluntary Specifications, Performance Requirements, and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels
2. ANSI. American National Standards Institute; www.ansi.org
 - a. ANSI Z97.1, Safety Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings
3. ASTM. ASTM International; www.astm.org
 - a. ASTM C1036, Standard Specification for Flat Glass
 - b. ASTM C1048, Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass
 - c. ASTM D1003, Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics
 - d. ASTM E330, Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
 - e. ASTM E2068, Standard Test Method to Determine the Opening and Breakaway Forces of Sliding Windows and Doors
4. CPSC. Consumer Product Safety Commission; www.cpsc.gov
 - a. CPSC 16CFR-1201, Safety Standard for Architectural Glazing Materials.
5. DIN. "Deutsches Institut für Normung" (German Institute for Standardization); www.en-standard.eu/din-standards
 - a. DIN EN 1191, Windows and doors - Resistance to repeated opening and closing - Test method; German version EN 1191:2000
 - b. DIN EN ISO 12400, Windows and pedestrian doors - Mechanical durability - Requirements and classification
6. HPD. Health Product Declaration v2.3; <https://www.hpd-collaborative.org/>
 - a. VOC Emission, Inherently non-emitting source per LEED v4.
7. IBC. International Building Code; www.iccsafe.org
 - a. IBC 2403.4, Differential deflection of two adjacent unsupported All Glass Sliding panels

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
 1. Coordinate top-hung head track support with structural drawings. See Section 05 1200.
 2. Coordinate All Glass Sliding Partition system and framing R.O.
- B. Preinstallation Meetings: See Section 01 30 00.

1.04 SUBMITTALS

- A. For Contractor submittal procedures: see Section 01 30 00.
- B. Product Data: Submit manufacturer's printed product literature for each All Glass Sliding Partition system to be incorporated into the Work. Show performance test results and details of construction relative to materials, dimensions of individual components, profiles, and colors.

- C. Product Drawings: Indicate All Glass Sliding partition system component sizes, dimensions, configuration, sliding panels, single action sliding panels and single/double action end panels, direction of swing, stacking layout, typical head jamb, sill details, type of glazing material, handle height, and field measurements.
- D. Installation, Operation, and Maintenance Data: Submit Owner's Manual from Manufacturer. Identify with project name, location, and completion date, and type and size of unit installed.

NOTE: Delete the following Article if LEED is not applicable; edit to meet project LEED requirements.

- E. Sustainable Design Submittals (USGBC [LEED®](#)): Refer to Section 01 81 15, LEED Design Requirements.
 - 1. **LEED 2009** (v3) Credits. Complete online LEED forms and submit other required materials as follows:
 - a. Materials and Resources (MR) Credits:
 - 1). MR Credit 1.1 (MRc1.1): Building Reuse - Maintain Existing Exterior Walls, Floors and Roof
 - 2). MR Credit 1.2 (MRc1.2): Building Reuse - Maintain Existing Interior Nonstructural Elements
 - 3). MR Credit 2 (MRc2): Construction Waste Management

NOTE: MR Credit 3 below can apply to reusing salvaged All Glass Sliding Partition.

- 4). MR Credit 3: Materials Reuse - 5% (MRc3.1) or 10% (MRc3.2)
 - b. Indoor Environmental Quality (EQ) Credits:
 - 1). IEQ Credit 2 (IEQc2): Increased Ventilation - Case 2 - Naturally Ventilated Spaces
 - 2). IEQ Credit 8.1 (IEQc8.1): Daylight & Views - Daylight 75% of Spaces
 - 3). IEQ Credit 8.2 (IEQc8.2): Daylight & Views - Views for 90% of Spaces
- 2. **LEED v4 for Interior Design and Construction** (ID&C) Credits. Complete online LEED forms and submit other required materials as follows:
 - a. Materials and Resources (MR) Credits:

NOTE: MR Credit 1 below can apply to reusing salvaged All Glass Sliding Partition.

- 1). MR Credit 1 (MRc1): Building Life-Cycle Impact Reduction; Option 3 - Building and Material Reuse
 - b. Indoor Environmental Quality (EQ) Credits:
 - 1). EQ Credit 7 (EQc7): Daylight
 - 2). EQ Credit 8 (EQc8): Quality Views
 - 3). EQ Credit 9 (EQc9): Acoustic Performance
 - a). Submit calculations or measurements for occupant spaces to meet sound transmission class ratings between adjacent spaces and reverberation time requirements within a room. LEED Closeout Documentation:

NOTE: Edit below to meet project LEED requirements.

- 1. **LEED 2009** (v3). Submit completed LEED™ submittal Worksheet Templates for the following credits:
 - a. MRc1.1, MRc1.2, MRc2, MRc3, MRc6, IEQc2, IEQc8.1, IEQc8.2
- 2. **LEED v4** (ID&C). Submit information and documentation to complete LEED™ Worksheet Templates for the following credits:
 - a. MRc1, EQc7, EQc8, EQc9

1.05 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Manufacturer capable of providing complete, precision built, engineered, pre-fitted units with a thirty five (35) years' experience in the sale of folding-sliding door systems for large openings in the North American market.
 - 1. Manufacturer to have ISO 9001: 2015 quality management system registration.
 - 2. Manufacturer to have ISO 14001: 2015 environmental management system registration.
- B. Installer Qualifications: Installer experienced in the installation of manufacturer's products or other similar products for large openings. Installer to provide reference list of at least three (3) projects of similar scale and complexity successfully completed in the last three (3) years.

NOTE: Having a manufacturer trained and certified installer doubles the warranty coverage from five (5) to ten (10) years.

- 1. Installer to be trained and certified by manufacturer.
- C. Single Source Responsibility: Furnish All Glass Sliding Partition system materials from one manufacturer for entire Project.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer's instructions and recommendations, Section 01 60 00 requirements, and as follows:
 - 1. Deliver materials to job site in sealed, unopened cartons or crates.
 - a. Upon receipt, inspect the shipment to ensure it is complete, in good condition and meets project requirements.
 - 2. Store material under cover in a clean and dry location, protecting units against weather and defacement or damage from construction activities, especially to the edges of panels.

1.07 FIELD CONDITIONS

- A. Field Measurements: Contractor to field verify dimensions of rough openings (R.O.), stack storage areas, and floor bolt socket locations. Mark field measurements on product drawing submittal.

1.08 WARRANTY

- A. Manufacturer Warranty: Provide All Glass Sliding Partition system manufacturer's standard limited warranty as per manufacturer's published warranty document in force at time of purchase, subject to change, against defects in materials and workmanship.
 - 1. Warranty Period beginning with the earliest of 120 days from Date of Delivery or Date of Substantial Completion:
 - a. Rollers: Ten (10) years
 - b. All Other Components Except Screens: Ten (10) years
 - 1). Exception: Five (5) years if NOT installed by manufacturer's specific system approved or certified trained installer.

PART 2 PRODUCTS**2.01 MANUFACTURERS**

- A. Basis-of-Design Product by Manufacturer: **NanaWall HSW75** by **NANA WALL SYSTEMS, INC.** (www.nanawall.com)

NANA WALL SYSTEMS, INC.
100 Meadow Creek Drive, Corte Madera, CA 94925
Toll Free (800) 873-5673
Telephone: (415) 383-3148
Fax: (415) 383-0312
Email: info@nanawall.com

1. Substitution Procedures: See Section 01 20 00; Submit completed and signed:

a. Document 00 43 25, Substitution Request Form (During Procurement), or

b. Document 00 63 25, Substitution Request Form (During Construction).
- 2.02 PERFORMANCE / DESIGN CRITERIA

A. Performance Criteria (Lab Tested):

1. Structural Loading (ASTM E-330):

Pass

2. Load Structure: At 1.5 times design wind pressure with no glass breakage or permanent damage to fasteners or storefront components.

a. Design Pressure Positive:30 psf (1436 Pa)

b. Design Pressure Negative:30 psf (1436 Pa)

3. Distributed Load 50 lb. across glass with optional H-profile (IBC 2403.4):< 0.1"

(Applies between sliding only panels and not for single/double action panels or end sliding panels)

4. Operating Force (ASTM E-2068):

	Initiate Motion	Maintain Motion
a. Sliding Panel:	1.5 lbf (7 N)	1 lbf (4 N)
b. Single/Double Action End Panel:	1 lbf (4 N)	1 lbf (4 N)
c. Single Action Sliding Panel:	1 lbf (4 N)	1 lbf (4 N)
- NOTE: Forced entry testing results are only applicable for the test unit type of locking.
See manufacturer's latest published data regarding performance.
5. Forced Entry (AAMA 1304, DIN EN 1191):

Pass

6. Operation / Cycling Performance – Single/Double Action End Panel and Single Action Sliding Panel

a. (DIN EN ISO 12400)100,000 cycles

b. (AAMA 920)500,000 cycles

7. Health Product Declaration (HPD):

Meet requirements
- NOTE: Health Product Declaration (HPD) in accordance with HPD Standard v2.3 tested with threshold level of hazards from substances present at or above 1000 parts per million (ppm). No residual or impurities were present above the threshold level from the system components.
No VOC emission as per LEED requirements. Contact NanaWall for more information.
- B. LEED Characteristics:

1. LEED 2009 (v3)

a. MRc1.1: NanaWall exterior glass wall systems, not demolished in a renovation project, are reused in the same location.

b. MRc1.2: NanaWall interior glass wall systems, not demolished in a renovation project, are reused in the same location.

- c. MRc2: *NanaWall* cardboard shipping crates are made of 60% recycled material and are 100% recyclable.
 - d. MRc3: *NanaWall*'s components easily disassemble and reassemble to "*Use as salvaged... or reused materials.*"
 - e. IEQc2: *NanaWall* systems provide natural ventilation in the open position, assisting in the 90% required natural ventilation of occupied spaces of ASHRAE 62.1.
 - f. EQc8.1: *NanaWall* glass wall assembly borrowed light brings daylight deeper into the floor plate.
 - g. EQc8.2: *NanaWall* glass wall assemblies provide direct outdoor lines of sight.
2. **LEED v4** for Interior Design and Construction (ID&C)
- a. MRc1: *NanaWall* can be easily disassembled for salvage and reuse.
 - b. EQc7: *NanaWall* glass wall assembly borrowed light brings daylight deeper into the floor plate.
 - c. EQc8: *NanaWall* glass wall assemblies provide direct outdoor lines of sight.
- C. Design Criteria:
- 1. Sizes and Configurations: As indicated by the drawings for selected number and size of panels, location of single/double action end panels, location of single action sliding panels, location of tracks and parking bays.
 - 2. Unit Operation: Adjustable sliding hardware with top and bottom rails:
 - a. [Sliding panels only.]
 - b. [Sliding panels with single action sliding panels.]
 - c. [Sliding panels with single/double action end panels.]
 - d. [Sliding panels with both single/double action end panels and single action sliding panels.]
 - 3. Panel Configuration:
 - a. [Straight]
 - b. [Segmented curve]
 - c. [True curve]
 - d. [90° angle turn/ open corner]
 - e. [135° angle turn]
 - f. [Window door combination]
 - g. [T intersection]
 - h. [4-Way Stop]
 - 4. Stack Storage Configuration:

NOTE: Select standard stack storage configuration from <https://www.nanawall.com/resources/hsw75/cad/standard>

 - a. Perpendicular to wall: Select from Parking Bay A, H, and I
 - b. Parallel to wall: Select from Parking Bay B, C, D, E, G, J, L, M, and N

NOTE: As NanaWall has thousands of custom stack storage configurations, please contact NanaWall Conceptual Drawing Service to customize a solution.

 - c. [Custom configuration]
 - 5. Mounting Type: Top-hung

6. Sill Type: Eccentric floor sockets with No floor track.

NOTE: High heel protector insert available for floor sockets. For concealed automatic interlock, floor socket available with black polyamide insert.

2.03 MATERIALS

- A. All Glass Sliding Partition Description: All glass, top-hung, single track sliding system with no vertical profiles, and a Patented (Patent No. US19541758) 2-in-1 release system allowing for a selected sliding panel to convert into a single action panel or vice-versa. Manufacturer's standard top and bottom rail profiles, with head track, parking bays, single action sliding panels, and single/double action end panels with dimensions as shown on Drawings.

1. Panel Size (W x H): As indicated.

NOTE: Max. W x H sliding panel widths up to 4' 1" (1.25 m) and unit heights up to 10' 6" (3.2 m).
Max. W x H single action sliding panel widths up to 3' 3" (1.00 m) and unit heights up to 10' 6" (3.2 m).
Max. W x H single/double action end panel sizes up to 3' 7" (1.1 m) and unit heights up to 10' 6" (3.2 m).

2. Head Track Height x Depth: 3-1/16 x 2-3/4 inch (78 x 70 mm)
3. Suspended ceiling support profile

NOTE: Suspended ceiling support profile is optional. This is not recommended for parking bay area. Edit to suit project requirements.

4. Panels: Single lite.
5. Top & Bottom Rail Depth: 1-7/16 inch (36 mm)

NOTE: Rail depth listed above applies to standard 1/2 inch (12 mm) thick glass. Depth dimension will be greater when thicker glass is used.

6. Top Rail Height:
a. 3-15/16 inch (100 mm)

NOTE: Option a. above is standard with other options below. Edit to suit project requirements.

- b. [5-1/4 inch (133 mm)]
c. [7-13/16 inch (198 mm)]
d. [10 inch (254 mm)]

NOTE: Rail height available in 3/16 inch (5 mm) increments from 5-1/4 inch (133 mm) to 7-13/16 inch (198 mm).

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

NOTE: Option a. above is standard with other options below. Edit to suit project requirements.

- b. [ADA, chamfered, 4-3/4 inch (120 mm)]
c. [5-1/4 inch (133 mm)]
d. [7-13/16 inch (198 mm)]
e. [ADA, 10 inch (254 mm) kickplate]

8. Rail End Caps and Edges: Smooth with bumpers on one panel end and mitered if at corner panels.
9. Rail End Cap Finish: Closest aluminum match to rail finish.
10. Aluminum Extrusions: AlMgSi0.5 alloy, 6063-T5 (F-22 - European standard) with thickness of 0.078 inch (2.0 mm) nominal.

11. Aluminum head track, hinges/pivot points, metal cladding on face of top and bottom rails:

a. Finish - Anodized (AAMA 611):

- 1). [Clear]
- 2). [Dark bronze]
- 3). [Black]
- 4). [Brushed]
- 5). [Post assembly clear coated]

NOTE: To match the ceiling, recessed head track can be offered with powder coat RAL 9016 Traffic White finish. Specify post assembly clear coat for greater corrosion resistance.

b. Finish - Powder Coat (AAMA 2604):

- 1). Color as chosen from manufacturer's powder coating finish chart from
 - a). [Manufacturer's full RAL selection – high gloss.]
 - b). [Custom finish]

NOTE: The following four are additional choices for the metal cladding on face of top and bottom rail only:

- c. [Brushed stainless steel]
- d. [Polished stainless steel]
- e. [Polished brass]
- f. [Satin brass]

NOTE: Select and edit glass type(s) to meet building code, Windload design, acoustic and/or security, and other project requirements with other glass available from manufacturer such as low iron, white board, decorative, acrylic, wooden, and stainless steel mesh.
For laminated glass, please check with NanaWall the availability of Vanceva White Collection and other color interlayers.

B. Glass and Glazing:

1. Safety Glazing: In compliance with ANSI Z97.1, CPSC 16CFR 1201, ASTM C1036, and ASTM C1048.

NOTE: Standard glass is "Reduced iron" heat soaked tempered with Light Transmission (LT) 89%. For "Low iron" with Light Transmission (LT) 91% , contact NanaWall.

2. Manufacturer's standard [**tempered**] [**laminated**] single lite glass.

a. Glass Thickness:

- 1). [1/2 inch (12 mm)]

NOTE: H-profile is standard with the 1/2 inch (12 mm) glass to meet IBC 2403.4 requirement for 5 lb. and 50 lb. load testing.

Glass thicknesses below are NOT for use with single action sliding panels.

- 2). [17/32 inch (13.5 mm)]
- 3). [9/16 inch (15 mm)]
- 4). [3/4 inch (19 mm)]
- 5). [13/16 inch (21 mm)]
- 6). [1 inch (25 mm)]

3. Edges: Flat polished/ground butt for all straight panels and mitered/beveled at corner panels.
 - a. Factory Glazing:
 - 1). Clamp installed for equal distribution of weight.
 - 2). Glass edge top rail clearance to be no more than 1/8 inch (3 mm) with a minimum 7/8 inch (22 mm) bite.
 - 3). Glass installed with bolts only NOT acceptable.
- C. Hardware on Sliding Panels:
 1. Two (2) unidirectional sliding panel carriers that are attached to each panel with a side adjustable stainless steel cast shoe and a stainless steel ball bearing axle.
 - a. Carriers to be glass fiber reinforced polyamide wheels with memory effect and polyamide bumpers.

NOTE: Bumpers prevent metal-on-metal contact for quiet and smooth operation.

- b. Metal-on-metal contact between top track and carriers NOT acceptable.
 2. Maximum carrying capacity of two carriers on a panel to be:
 - a. 330 lbs. (150 kg).

NOTE: For heavier panels select 400 lbs. below.

- b. [400 lbs. (180 kg).]
 - c. Carriers on panels to be installed such that each panel can be intelligently guided into the parking bay without error and with single hand operation.
 - d. Non-single handed operation, not acceptable.
 3. Adjustment: Provide system capable of specified amount of adjustments without removing panels from tracks.
- D. Hardware on Single Action Sliding Panels:
 1. Single action with standard top door closer and standard top rail.
 2. [2-Part top rail with pivot point.]
 3. [Patented 2-in-1 release system for top pivot point with a crank handle to convert sliding panel to a single action panel and vice versa.]

NOTE: The patented (Patent No. US19541758) 2-in-1 release system ensures ease of operation with eight turns of a crank handle; a one-step release system.

- a. Systems requiring a two-step release at top pivot point NOT acceptable.
 - b. Provide closest aluminum finish Locking Box on upper arm of top rail and Locking Box Receiver on the side of the head track.
 4. Manufacturer's standard top door closer in closest match [**aluminum**] [**stainless steel**] finish.
 5. Brushed stainless steel pivot box with a quick release floor bolt with spring loaded security feature to engage bottom pivot point.
- E. Hardware on Single/Double Action End Panel(s):
 1. Single or double action with pivot point.

NOTE: Option 1. above is standard with other options below. Edit to suit project requirements.

2. [Single action with floor closer.]
 3. [Single action with offset hinge and pivot point that can swing 180°.]
 4. [Single action with manufacturer's standard top door closer in closest match (**aluminum**) (**stainless steel**) finish.]

5. [Double action with stainless steel finish floor closer.]

F. Locking:

NOTE: Select applicable paragraphs and delete those not required.
(<https://www.nanawall.com/design/locking#714>)

1. Between Sliding Panels, provide:
- Concealed panel to panel interlocking floor bolts, possible only if the angle change between panels is less than 12°.

NOTE: Option a. above is standard with other options below. Edit to suit project requirements.

- [Concealed automatic interlocking floor bolts for ease of operation, possible for only straight units]
- [Quick release floor bolt with spring loaded security feature]
- [Foot activated floor bolt]
- [Floor bolt with mortise key/key cylinder where needed.]

NOTE: Floor bolt with mortise key/key cylinder is recommended when panel operation control is needed.

2. First Panel in a Sliding Panels Only system, provide:
- Foot activated floor bolt

NOTE: Option a. above is standard with other options below. Edit to suit project requirements.

- [Floor bolt with mortise key/key cylinder]
 - [Quick release floor bolt with spring loaded security feature]
 - [A concealed interlock into adjacent structure.]
3. Single Action Sliding Panels or Single/Double Action End Panel, provide:
- Floor bolt with mortise key/key cylinder.
 - [Foot activated floor bolt.]

NOTE: Below option available for single action sliding panel only.

- [Pivot box with top door closer.]

NOTE: Handle height locking.

- [Locking ladder pull handles on both sides with bumpers in brushed stainless steel finish with locking at handle height with mortise key/key cylinder.]
4. Single Action End Panels, provide:
- Floor bolt with mortise key/key cylinder.
 - [Foot activated floor bolt.]
 - [No locking if selected with floor closer.]
 - [No locking if selected with a top door closer]

NOTE: Supply drill pattern for NanaWall to drill holes in glass. Hardware supplied and installed by others.

- [Panic hardware; Access Door AD 100-F Panic Series by others.]

NOTE: Handle height locking.

- [Locking ladder pull handles on both sides with bumpers in brushed stainless steel finish with locking at handle height with mortise key/key cylinder.]

5. End Sliding Panel with Single Action Sliding Panel, provide:
- a. [Locking bolt with crank handle at the top rail for additional security.]
- G. Mortise Key/Key Cylinder: 1-1/8 inch mortise lockset, Yale cam clear anodized finish, as a temporary construction core.

NOTE: Edit to suit project requirements to be supplied by Contractor.

- 1. Final locking by others: key operation
 - a. Key operation from either side
 - b. [Key operation from outside with a thumb turn on the inside.]
- 2. Final locking by others: format
 - a. Small Format Interchangeable Core (SFIC).
 - b. [Large Format Interchangeable Core (LFIC).]
 - c. [Furnished by Section 08 71 00.]

NOTE: ADA-compliant push/pull handles are available. Please contact NanaWall for more details.

- H. Handles on Single Action Sliding Panel(s) or Single/Double Action End Panel(s) with locking located at bottom rail selected from 2.03 F:
- 1. Push/pull handles on both sides in brushed stainless-steel finish with two point fixing and length of 13-13/16 inches (350 mm).

NOTE: Option 1. above is standard with other options below. Edit to suit project requirements. Push/pull handles with black bumpers are on each end to minimize impact with glass.

- 2. [Push/pull handles on both sides in brushed stainless steel finish with two point fixing and length of 19-11/16 inches (500 mm).]
- 3. [Push/pull handles on both sides in brushed stainless steel finish with two point fixing and length of 29-17/32 inches (750 mm).]
- 4. [Push/pull handles on both sides in brushed stainless steel finish with two point fixing and length of 39-3/8 inches (1000 mm).]
- 5. [Push/pull handles on both sides in brushed stainless steel finish with two point fixing and length of 47-1/4 inches (1200 mm).]
- 6. [Push/pull handles on both sides in brushed stainless steel finish with two point fixing and length of 59-1/16 inches (1500 mm).]
- 7. [Push/pull handles on both sides in brushed stainless steel finish with two point fixing and length of 70-55/64 inches (1800 mm).]
- 8. [Ladder push/pull handles on both sides in brushed stainless steel finish with key-key locking at handle height.]
- 9. [Ladder push/pull handles on both sides in brushed stainless steel finish with key-thumb turn locking at handle height.]
- 10. [Pull handle with push plate set in brushed stainless steel finish with length of 13-13/16 inch (350 mm).]
- 11. [Lever handles on both sides with latch in brushed stainless steel finish (no lock set at handle height) and matching strike plate on opposite panel to be located at handle height.]
- 12. [Preparation for lever handles furnished by Section 08 7100.]

NOTE: Provide template for holes and cut outs needed in glass.

- 13. [No handles but with pull knob in brushed stainless steel finish.]
- 14. [No handles but with rosette in brushed stainless steel finish.]
- 15. [No handles and no knob.]

16. [No handles but with hole with polished glass edges.]

- I. Panels with Push/Pull Handles, Knobs, Rosettes, or Panic Devices: Provide handle height centered at 41-3/8 inch (1050 mm) from bottom of the panel or as indicated otherwise.
- J. Other Components:
 - 1. Horizontal Seals: Provide adjustable sealing brush for outside of top rail and no brushes at bottom rail.
 - 2. Bumpers: Provide recessed polyamide bumpers on one end of sliding panel end caps, at the top and bottom.

NOTE: Bumpers prevent metal-to-metal or glass-to-glass contact.

- 3. Transparent Vertical Gaskets between sliding panels, provide UV resistant edge mounted gaskets with a Light Transmission (LT) of 75% or higher per ASTM D1003:
 - a. H-profile act as permanent fastener and capture the edges to prevent differential deflection of two adjacent unsupported All Glass Sliding panels per IBC 2403.4. Applies between sliding only panels and not for single/double action panels or end sliding panel(s). For single action sliding panel or single action end panel adjacent to a sliding panel, an edge protector is supplied.

2.04 FABRICATION

- A. Extruded aluminum frame and rail profiles, sliding hardware, locking hardware and handles, and glass to construct All Glass Sliding Partition wall.
 - 1. Each unit factory pre-assembled and shipped with all components and installation instructions.
 - 2. Exposed work to be carefully matched to produce continuity of line and design with all joints.
 - 3. No raw edges visible at joints.

2.05 ACCESSORIES

- A. [**Folding FSW75**] [**Center pivot CSW75**] systems with finish to match, as indicated. See Door Schedule.
- B. [**Single**] [**Double**] doors as indicated. See Door Schedule.
- C. Sidelights with finish to match, as indicated. See Door Schedule.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examination and Acceptance of Conditions per Section 01 70 00 and as follows:
 - 1. Carefully examine rough openings with Installer present, for compliance with requirements affecting Work performance.
 - a. Verify that field measurements, substrates, tolerances, levelness, plumbness, cleanliness, and other conditions are as required by the manufacturer, and ready to receive Work.
 - b. Verify the structural integrity of the header for deflection with live and dead loads limited to 1/4 inch (6 mm). Provide structural support for lateral loads, and eccentric load when the panels are stacked open.

NOTE: Similar structural support is needed for the parking bay(s) and any upper track leading to it. Structural support for lateral loads such as forced entry, etc. to be provided.

It's recommended that all building dead loads be applied to the header prior to installing the unit.

If so, and if a reasonable amount of time has been allowed for the effect of this dead load on the header, only then can the building live load be used to meet the above requirement of 1/4 inch (6 mm).

If not, both dead and live loads need to be considered.

2. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 INSTALLATION

- A. General: Install All Glass Sliding Partition system in accordance with the Drawings, approved submittals, manufacturers' recommendations, and installation instructions, and as follows:
 1. Properly seal around opening perimeter.
 2. Securely attach anchorage devices to rigidly fit top head track and parking bay in place, level, straight, plumb, and square. Install frame in proper elevation, plane and location, and in proper alignment with other work.
 3. Install glass panels, handles, lockset, and other accessories in accordance with manufacturer's recommendations and instructions.

3.03 FIELD QUALITY CONTROL

- A. Field Tests and Inspections per Section 01 40 00 of the following:
 1. Verify the All Glass Sliding Partition system operates and functions properly. Adjust hardware for proper operation.
- B. Non-Conforming Work: Repair or replace non-conforming work as directed by the Architect; see General and Supplementary Conditions, and Division 01, General Requirements.

3.04 CLEANING AND PROTECTION

- A. Keep units closed and protect All Glass Sliding Partition installation against damage from construction activities.
- B. Remove protective coatings and use manufacturer recommended methods to clean exposed surfaces.

END OF SECTION

DISCLAIMER:

Nana Wall Systems, Inc. takes no responsibility for product selection or application, including, but not limited to, compliance with building codes, safety codes, laws, or fitness for a particular purpose. This guide specification is not intended to be verbatim as a project specification without appropriate modifications for the specific use intended and the requirements of a specific construction project.

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