

## SECTION 08 41 26

### ALL-GLASS ENTRANCES AND STOREFRONTS

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. Section includes furnishing and installing a top-hung, weather resistant, individual panel, frameless all-glass sliding wall and door panel system that includes:
1. Aluminum rails
  2. Top track with stacking bay(s)
  3. Side jambs
  4. Sliding panels
  5. Single action end panel(s)
  6. Sliding/swinging hardware
  7. Locking and interlocking hardware
  8. Door closer
  9. Sealing brushes with fin
  10. Transparent vertical edge weather seals
  11. Vertical side jamb seals
  12. ADA compliant low-profile saddle sill
  13. Glass and glazing
  14. Insect screen
  15. 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 42 23, Glass Entrance Swing Doors
  5. Section 09 22 16, Non-Structural Metal Framing: Metal framing R.O. and reinforcement.

##### 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](http://www.aamanet.org)
    - a. AAMA 611, Voluntary Specification for Anodized Architectural Aluminum
    - b. AAMA 920, Specification for Operating Cycle Performance of Side-Hinged Exterior Door Systems
    - c. AAMA 1304, Voluntary Specification for Forced Entry Resistance of Side-Hinged Door Systems
    - d. AAMA 2603, Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels
    - e. 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](http://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](http://www.astm.org)
  - a. ASTM C1036, Standard Specification for Flat Glass
  - b. ASTM D1003, Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics
  - c. ASTM E90, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
  - d. ASTM E283, Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
  - e. ASTM E330, Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
  - f. ASTM E331, Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
  - g. ASTM E1332, Standard Classification for Rating Outdoor-Indoor Sound Attenuation
  - h. ASTM F842, Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact
4. CPSC. Consumer Product Safety Commission; [www.cpsc.gov](http://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](http://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

### 1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination:
  1. Coordinate top-hung head track support with structural drawings. See Section 05 1200.
  2. Coordinate All-Glass Entrance and Storefront 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 Entrance and Storefront 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. Shop Drawings: Indicate All-Glass Entrance and Storefront system component sizes, dimensions and framing R.O., configuration, sliding and swing panels, direction of swing, stacking layout, typical head jamb, side jambs and sill details, type of glazing material, handle height and field measurements, if required.
- D. Manufacturers' Instructions: Submit manufacturer's installation instructions.
- E. 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.

- F. Sustainable Design Submittals (USGBC [LEED®](http://www.usgbc.org)): 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 Sliding Glass 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 Sliding Glass 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
- G. 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, 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

#### 1.05 QUALITY ASSURANCE

**NOTE:** NanaWall has over thirty (30) years experience in the manufacture of folding-sliding door systems for large openings for the North American market.

- A. Manufacturer Qualifications: Manufacturer capable of supplying and installing complete, precision built, engineered, pre-fitted units of folding-sliding door systems for large openings for the North American market.
  1. Manufacturer to have ISO 9001: 2008 quality management system registration.
  2. Manufacturer to have ISO 14001: 2005 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 Entrance and Storefront 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 shop drawing submittal.
- 1.08 WARRANTY
- A. Manufacturer Warranty: Provide All-Glass Entrance and Storefront 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. Transparent Vertical Edge Weather Seal UV Resistance: Five (5) years
      - c. All Other Components Except Screens: Ten (10) years
        - 1). Exception: Five (5) years if NOT installed by manufacturer's certified trained installer.

## PART 2 PRODUCTS

### 2.01 MANUFACTURERS

- A. Basis-of-Design Product by Manufacturer: **NanaWall ClimaCLEAR** by **NANA WALL SYSTEMS, INC.** ([www.nanawall.com](http://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](mailto: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): **Low Profile Saddle Sill - Inward/Outward Opening**

**NOTE:** Forced entry testing results are only applicable for the test unit type of locking.

Standard 1/2 inch (12 mm) thick tempered glass was used for testing.

Weeps are to be drilled in the field by the installer to manufacturer's requirements.

See manufacturer's latest published data regarding performance.

1. Air Infiltration (ASTM E283):
  - a. 0.46 cfm/ft<sup>2</sup> (0.09 L/s/m<sup>2</sup>) at a static air pressure difference: of 1.57 psf (75 Pa)
2. Water Penetration (ASTM E331, ASTM E547): No uncontrolled water leakage at a static test pressure of 3.13 psf (150 Pa) with weeps.

**NOTE:** To accommodate higher structural wind loads using thicker glass contact NanaWall.

3. Structural Loading (ASTM E330):
  - a. Design Pressure - Positive: 30 psf (1436 Pa)
  - b. Design Pressure - Negative: 30 psf (1436 Pa)

**NOTE:** Acoustic performance below is achieved using laminated glass with a sound enhanced interlayer.

4. Acoustic Performance:
  - a. STC (ASTM E90): 34
  - b. OITC (ASTM E1332): 28
5. Forced Entry (AAMA 1304): Pass
6. Single Action Panels with Offset Hinges - Operation / Cycling Performance (AAMA 920): 350,000 cycles

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 swing panels, and location of tracks and stacking bays.
2. Unit Operation: Adjustable sliding hardware with top track;
  - a. [ sliding type. ]
  - b. [ end single action type. ]
3. Mounting Type: Top-hung

4. Panel Configuration: Straight
5. Stack Storage Configuration:
- a. [ **Perpendicular to wall** ]
  - b. [ **Parallel to wall** ]
  - c. [ **Remote** ]
  - d. [ **Pocket wall** ]

## 2.03 MATERIALS

**NOTE:** NanaWall panel interlocks are patent pending.

- A. All-Glass Entrance and Storefront Description: All glass, top-hung, single track sliding system with panel interlocks, sheet glass panels, and vertical and horizontal seals. Manufacturer's standard top and bottom rail profiles, with head track, stacking bays, side jambs, and low-profile saddle sill with dimensions as shown on Drawings.
1. Provide aluminum head track, side jambs, hinges, low profile saddle sill, and face and edges of top and bottom rails with panel interlocks.

**NOTE:** Finishes can be mixed and matched. I.E. tracks can be white with all other aluminum extrusions clear anodized.

Extruded aluminum low-profile saddle sill can be either clear or dark bronze anodized.

- a. Finish - Anodized (AAMA 611):
  - 1). [ **Clear** ]
  - 2). [ **Dark bronze** ]
  - 3). [ **Black** ]
  - 4). [ **Brushed** ]
  - 5). [ **Post assembly clear coated** ]

**NOTE:** 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.** ]
    - b). [ **custom finish.** ]
  - 2). Gloss - Finish:
    - a). [ **High Gloss** ]
    - b). [ **Matte** ]
2. Panel Size (W x H): As indicated.

**NOTE:** Maximum W x H sliding panel sizes up to 4'-1" by 10'-6" (1.25 m by 3.2 m).  
 Maximum W x H single action panel size up to 3'-7" by 10'-6" (1.10 m by 3.2 m).  
 Maximum 10'-6" (3.2 m) height is based on GANA recommendation for 1/2 inch (12 mm) glass. Verify glass with authorities having jurisdiction.  
 Maximum height is dependent on site wind load requirements.

3. Head Track Width x Depth: 2-7/8 x 2-3/4 inch (73 x 70 mm)

**NOTE:** Retain "Single Action End Panel Width" and/or "Single Action Non-Entry End Panel Width" subparagraphs below and edit to project requirements.

4. Single Action End Panel Width: 3'-7" (1100 mm)

**NOTE:** Single action non-entry end panel dimensions range between 1'-8" (500 mm) and 3'-7" (1092 mm). Insert dimension below to meet project requirements.

5. Single Action Non-Entry End Panel Width: < **insert dimension** > meeting pocket dimension constraints.
  6. Top & Bottom Rail Depth: 2-1/2 inch (64 mm)
  7. Top Rail Width: 4-1/8 inch (104 mm)
  8. Bottom Rail Width: 4-1/8 inch (104 mm)
  9. Rail End Cap: Male/female interlock.
  10. Sill Type: ADA compliant, low-profile saddle sill.
  11. Aluminum Extrusions: AIMgSi0.5 alloy, EN AW - 6060-T66
    - a. Thickness: 0.078 inch (2.0 mm) nominal
- B. Glass and Glazing:
1. Safety Glazing: In compliance with ANSI Z97.1, CPSC 16CFR 1201, ASTM C1036 and ASTM C 1048.
  2. Manufacturer's Standard Glass:
    - a. Glass Lite: Single

**NOTE:** Standard tempered glass is 1/2 inch (12 mm) thick.

Laminated glass has less structural strength than tempered glass.

When considering laminated glass, other options include:

Acoustic laminated with double interlayer, 1/2 inch (13 mm) thick.

Baseball impact laminated with quadruple interlayer, 9/16 inch (13.5 mm) thick.

- b. Glass Thickness: [ 1/2 inch (12 mm) ] [ 1/2 inch 13 mm ] [ 17/32 inch (13.5 mm) ]
  - c. Glass Type: [ Tempered ] [ Laminated ]
  3. Edges: Flat butt for all panels.
    - a. Exposed Edges: Flat polished/ground.
  4. Factory Glazing:
    - a. Clamp installed for equal distribution of weight.
    - b. Glass edge top rail clearance to be no more than 1/8 inch (3 mm) with a minimum 7/8 inch (22 mm) bite.
    - c. Glass installed with bolts only NOT acceptable.
- C. Sliding Hardware:
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: 330 lbs (150 kgs).
  - a. Carriers on panels to be installed such that each panel can be intelligently guided into the stacking bay without error and with single hand operation.
  - b. Non-single handed operation, not acceptable.
3. Adjustment: Provide system capable of specified amount of adjustments without removing panels from tracks.

- D. Hardware on End Single Action Panel(s):

1. Offset hinged panels capable of swinging 150° in and 110° out.
2. Standard brushed stainless steel Reverse Tubo200 tubular handle starting at the top and extending down to hand height, with mortise lock and thumb turn inside.
  - a. Standard lockset; SFIC rim housing ICR7 as a temporary construction core.
3. Standard overhead door closer with hold-open function.
4. Standard bottom rail locking on floor bolt with mortise cylinder lock, with key/key operation.

**NOTE:** Items 1, 2, 3 and 4 above are standard with other items below optional. Edit to suit project requirements.

- a. [ **Standard lockset; 1-1/8 inch mortise lockset, Yale cam with key on inside/outside and chrome finish, as a temporary construction core.** ]

**NOTE:** Option a. above is standard with other options below. Edit to suit project requirements to be supplied by Contractor.

- b. [ **Small Format Interchangeable Core (SFIC).** ]
- c. [ **Large Format Interchangeable Core (LFIC).** ]
- d. [ **Furnished by Section 08 71 00.** ]

**NOTE:** Option e. is related to D.4. above and E.2., E.3., E.4. below, and with other options below. Edit to suit project requirements. Push/pull handles with black bumpers are on each end to minimize impact with glass.

Options 5. through 10. below may NOT be used for Egress doors as operation is from inside only.

- e. [ **ADA compliant (5-1/2 inch (140 mm) high), acrylic chamfer rail adapter, 1-3/8 inch (35 mm) high by 7/8 inch (22 mm) thick.** ]
5. [ **Push/pull handles on both sides in brushed stainless steel finish; 11-13/16 inch (350 mm) long.** ]
6. [ **Push/pull handles on both sides in brushed stainless steel finish in custom sizes.** ]
7. [ **Pull handle with push plate set in brushed stainless steel finish with length of 11-13/16 inch (350 mm).** ]
8. [ **Custom push/pull handles (by others).** ]

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

9. [ **No handles but with pull knob in brushed stainless steel finish.** ]
10. [ **No handles and no knob.** ]

E. Hardware on Single Action Non-Entry End Panel(s):

1. Offset hinged panel that can swing 180°.
2. [ **Standard locking bolt with crank handle at the top rail.** ]
3. [ **Standard foot activated floor bolt, with operation from inside only.** ]

**NOTE:** Items 1, 2 and 3 above are standard with other items below optional. Edit to suit project requirements.

4. [ **Bottom rail locking on floor bolt with half mortise cylinder lock, with key operation from inside only.** ]
  - a. [ **Standard lockset; 1-1/8 inch mortise lockset, Yale cam with key on inside and chrome finish, as a temporary construction core.** ]

**NOTE:** Option a. above is standard with other options below. Edit to suit project requirements to be supplied by Contractor.

- b. [ **Small Format Interchangeable Core (SFIC).** ]



- c. [ **Large Format Interchangeable Core (LFIC).** ]
- d. [ **Furnished by Section 08 71 00.** ]
- F. Panels with Push/Pull Handles or Knobs: Provide handle height centered at 41-3/8 inch (105 cm) from bottom of the panel or as indicated otherwise.
- G. Other Locking:
  - 1. For Between Sliding Panels, provide foot-activated locks for floor bolts.
  - 2. For Floor Bolts, provide side adjustable locking points recessed in ADA compliant low profile saddle sill.
- H. Other Components:
  - 1. Horizontal Seals: At top and bottom rails, provide sealing brush with double fins on the inside and the outside.
  - 2. Transparent Vertical Edge Seals: Between panels, provide UV resistant edge mounted gaskets.
    - a. Light Transmission (LT): 75 percent or higher per ASTM D1003.

**NOTE:** Vertical edge seals help reduce air and water penetration, glass-to-glass contact, and sound transmission.

- 3. Vertical Side Jamb Seals: Between side jambs and panels, provide double Q-Lon seals.

## 2.04 FABRICATION

- A. Extruded aluminum frame and rail profiles, sliding hardware, locking hardware and handles, and glass to construct sliding glass 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. Sidelights with finish to match, as indicated. See Door Schedule.

**NOTE:** Screen ONE is 'non-pleated' while Screen Classic is 'pleated.'  
Select 'ONE' or 'Classic,' deleting option not chosen.

- B. Insect Screen Panels: Fully retractable non-pleated screen made of ultra-strong, UV resistant fiberglass mesh housed in a single cartridge riding on a single track.
  - 1. Basis of Design Product by Manufacturer: **Screen ONE** or an Architect acceptable equivalent subject to project requirements.
  - 2. Finish - Aluminum Top Track, Side Jambs and Vertical Struts:
    - a. White powder coated
    - b. [ **Clear anodized** ]
    - c. [ **Black powder coated** ]
    - a. [ **Classic bronze powder coated** ]

**NOTE:** Above options are standard. Check with NanaWall regarding other available finishes, which may require an upcharge.

- C. Insect Screen Panels: A series of top-hung collapsible pleated UV resistant fiberglass mesh screen panels riding on a single narrow ADA compliant 1/4 inch (5 mm) floor track. Each 4 inch (10 cm) wide vertical cassette can expand to 3'-3" (1 m) wide.
  - 1. Basis of Design Product by Manufacturer: **Screen Classic** or an Architect acceptable equivalent subject to project requirements.
  - 2. Finish - Aluminum Top Track, Side Jambs and Vertical Struts:

- a. White powder coated
- b. [ **Clear anodized** ]
- c. [ **Dark bronze anodized** ]

**NOTE:** Above options are standard. Check with NanaWall regarding powder coated and other available finishes, which may require an upcharge.

- d. [ **Powder coated with color as selected by architect.** ]
3. Screen Track Stacking: [ **Within opening** ] [ **Extended beyond opening** ].

### 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 the lesser of L/720 of the span or 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 stacking 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 requirements of L/720 or 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 Entrance and Storefront 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 stacking 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.
  - 4. Sill drainage connection by others.

#### 3.03 FIELD QUALITY CONTROL

- A. Field Tests and Inspections per Section 01 40 00 of the following:
  - 1. Verify the All-Glass Entrance and Storefront 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 Sliding Glass 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 particular requirements of a specific construction project.

[www.nanawall.com](http://www.nanawall.com)