

**SECTION 10 22 39****FOLDING GLASS PARTITIONS****PART 1 GENERAL**

## 1.01 SUMMARY

- A. Section includes furnishing and installing a sliding-folding structurally glazed thermally broken aluminum-framed glass door-wall system that includes:
  - 1. Aluminum frame
  - 2. Threshold
  - 3. Panels
  - 4. Sliding-folding and locking hardware
  - 5. [ **Sound gasketing** ]
  - 6. Glass and glazing
  - 7. 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 08 43 29, Sliding Glass Storefronts: NanaWall LS160
  - 6. Section 08 43 33, Folding Glass Storefronts: NanaWall SL82
  - 7. Section 09 22 16, Non-Structural Metal Framing: Metal framing R.O. and reinforcement.
  - 8. Section 10 22 43, Sliding Glass Partitions: NanaWall LS160

## 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 503, Voluntary Specification for Field Testing of Newly Installed Storefronts, Curtain Walls, and Sloped Glazing Systems
    - b. AAMA 611, Voluntary Specification for Anodized Architectural Aluminum
    - c. AAMA 1304, Voluntary Specifications 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
    - e. AAMA/WDMA/CSA 101/I.S.2/A440, NAFS, North American Fenestration Standard - Specification for Windows, Doors and Skylights
  - 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

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- b. ASTM C1048, Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass
  - c. ASTM E413, Classification for Rating Sound Insulation
  - d. ASTM E1332, Standard Classification for Rating Outdoor-Indoor Sound Attenuation
  - e. ASTM F842, Standard Test Methods for Measuring the Forced Entry Resistance of Sliding Door Assemblies, Excluding Glazing Impact
4. Construction Products Directive (CPD), a legal mandate of the European Commission; [http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/construction-products/index\\_en.htm](http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/construction-products/index_en.htm)
- a. CE Mark; [http://ec.europa.eu/growth/single-market/ce-marking/index\\_en.htm](http://ec.europa.eu/growth/single-market/ce-marking/index_en.htm)
5. CPSC. Consumer Product Safety Commission; [www.cpsc.gov](http://www.cpsc.gov)
- a. CPSC 16CFR-1201, Safety Standard for Architectural Glazing Materials
6. CSA Group (Canadian Standards Association); [www.csagroup.org/global/en/home](http://www.csagroup.org/global/en/home)
- a. CSA A440S1 - The Canadian supplement to North American (NAFS) standards
7. 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
8. EN Standards - Construction Materials and Building (European Standards); [www.en-standard.eu/din-standards](http://www.en-standard.eu/din-standards)
- a. EN 1191/12400, Windows and Pedestrian Doors - Mechanical Durability

## 1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate Folding Glass 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 Folding Glass 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. Shop Drawings: Indicate Folding Glass Partition system component sizes, dimensions and framing R.O., configuration, swing panels, direction of swing, stacking layout, typical head jamb, side jambs and sill details, type of glazing material, handle height and field measurements.
- D. Certificates: Submit CE Mark certificate.
- E. Manufacturers' Instructions: Submit manufacturer's installation instructions.
- F. 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.

- G. 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

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- 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 Folding 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
  - 4). IEQ Credit 9 (LEED for Schools - IEQc9): Enhanced Acoustical Performance
2. **LEED v4 for Interior Design and Construction (ID&C)** Credits. Complete online LEED forms and submit other required materials as follows:
  - a. Energy and Atmosphere (EA) Credits:
    - 1). EA Credit 2 (EAc2): Optimize Energy Performance
  - b. Materials and Resources (MR) Credits:

**NOTE:** MR Credit 1 below can apply to reusing salvaged Folding Glass Partition.

- 1). MR Credit 1 (MRc1): Building Life-Cycle Impact Reduction; Option 3 - Building and Material Reuse
  - c. 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
- H. 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, IEQc9
2. **LEED v4 (ID&C)**. Submit information and documentation to complete LEED™ Worksheet Templates for the following credits:
  - a. EAc2, MRc1, EQc7, EQc8, EQc9

## 1.05 QUALITY ASSURANCE

- A. Regulatory Requirements: Folding Glass Partition to be CE Mark certified.

**NOTE:** The CE mark serves as verification that the product conforms with the essential requirements of the Construction Products Directive (CPD), a legal mandate of the European Commission. CE certified windows and doors provide building professionals with a uniform set of technical standards to evaluate and specify product performance with added assurance that NanaWall products are safe and fit for purpose.

- B. Manufacturer Qualifications: Manufacturer capable of providing complete, precision built, engineered, pre-fitted units with a minimum twenty-five (25) years' experience in the sale of folding-sliding door systems for large openings in 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.
- C. 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)

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projects of similar scale and complexity successfully completed in the last three (3) years.

1. Installer to be trained and certified by manufacturer.

D. Single Source Responsibility: Furnish Folding Glass 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.) [ **and threshold depressions to receive sill.** ] Mark field measurements on shop drawing submittal.

## 1.08 WARRANTY

A. Manufacturer Warranty: Provide Folding Glass 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 and Glass Seal Failure: Ten (10) years

b. 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 SL82** 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)

b. Document 00 63 25, Substitution Request Form (During Construction)

## 2.02 PERFORMANCE / DESIGN CRITERIA

**NOTE:** Select one of the two Performance Criteria paragraphs below for different Sill and Opening types, deleting paragraphs not chosen.

Choose the Raised Sill or Flush Sill for Inward Opening Units only.

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Structural load testing results are only applicable for the test unit size and type of locking and rods. Comparative analysis charts published by manufacturer shows which panel sizes, if any, meets the structural loading design pressures specifically required for the project.

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

Check for requirements in the jurisdiction of the project.

See manufacturer's latest published data regarding performance.

It is expected that the installed system's performance would be not more than 2/3rds of the following certified laboratory test data in accordance with AAMA 503.

- A. Performance Criteria (Lab Tested): **Raised Sill - Inward Opening**
1. Structural Load Deflection with Standard Locking Rods (ASTM E330): Pass

**NOTE:** Higher structural performance is possible with reinforced locking rods. Contact NanaWall.

- a. Design Pressure - Positive: 30 psf (1440 Pa)
- b. Design Pressure - Negative: 40 psf (1920 Pa)
- c. Windload Resistance: C1 rating (+/- 720 Pa)
- d. Blow-out: C3 rating (+2160 Pa, -2880 Pa)
2. Forced Entry Resistance (ASTM F842, AMMA 1304, CAWM 300): Meets Grade 40; +F2
- B. Performance Criteria (Lab Tested): **Raised Sill & Flush Sill - Inward Opening**
1. Structural Load Deflection with Standard Locking Rods (EN 12211):

**NOTE:** Higher structural performance is possible with reinforced locking rods. Contact NanaWall.

- a. Deflection: < 1/150 at +/- 24 psf (+/- 1200 Pa)
- b. Deflection: < 1/150 at +/- 36 psf (+/- 1800 Pa)

**NOTE:** Items below are common to all sill types, except as noted.

2. System - Life Cycle Performance (DIN EN 1191/12400): 10,000 cycles
- C. 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.
- h. IEQc9: (LEED for Schools) For gasketed *NanaWall* glass wall assemblies with glass units STC testing of up to 45 dB.

2. **LEED v4 for Interior Design and Construction (ID&C)**

- a. EAc2: *NanaWall* systems using low U-Value designed double or triple IGU and thermally/ acoustically broken frames can provide significant energy performance.
- b. MRc1: *NanaWall* can be easily disassembled for salvage and reuse.

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- c. EQc7: NanaWall glass wall assembly borrowed light brings daylight deeper into the floor plate.
  - d. EQc8: NanaWall glass wall assemblies provide direct outdoor lines of sight.
  - e. EQc9: NanaWall glass wall assemblies can contribute with system acoustic ratings up to a 45 dB reduction.
- D. 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: Inswing type; adjustable sliding and folding hardware with top and bottom tracks.
  3. Panel Configuration: Straight
  4. Stack Storage Configuration: Inside
  5. Mounting Type: Floor track supported with upper guide track.
  6. Panel Type: Hinged
    - a. Primary swing panel of paired swing panels, looking from inside, to be on the [ **left** ] [ **right** ].
    - b. [ **Entry/Egress panel hinged to side jamb.** ]
  7. Panel Pairing Configuration: See drawings.

**NOTE:** Sizes and Configurations: <http://www.nanawall.com/products/sl82/options>  
 See manufacturer drawings for selected custom dimensions within maximum frame sizes possible as indicated in manufacturer's literature.  
 See drawings for selected number of panels and configuration.

## 2.03 MATERIALS

- A. Thermally Broken Aluminum Framed Folding Glass Partition Description: 3-1/8 inch (80 mm) thick interior frame with a structurally glazed frameless exterior, floor track supported roller system with head guide rails, and designed for inswing opening straight glass walls. Manufacturer's standard thermally broken frame and panel profiles, with floor and head tracks, side jambs and panels with dimensions as shown on Drawings.
1. Panels with: Single lite.
  2. Panel Size (W x H): As indicated.

**NOTE:** Maximum panel sizes are 8'-2" high and 3'-3" wide and with a 2'-7" minimum width.

3. Rail Depth: 3-1/8 inch (80 mm)
4. Head Rail Width: 4-1/2 inch (115 mm)
5. Bottom Rail Width:
  - a. [ **2-3/4 inch (70 mm) for flush sill or saddle sill** ]
  - b. [ **3-13/16 inch (97 mm) for raised sill** ]
6. Aluminum Extrusion: AIMgSi0.5 alloy, 6063-T5 (F-22 - European standard)
  - a. Thickness: 0.078 inch (2.0 mm) nominal
  - b. Acoustic Break: 3/4 to 15/16 inch (20 to 24 mm) wide polyamide plastic reinforced with glass fibers. Thinner or poured and de-bridged type acoustic breaks not acceptable.
7. Aluminum Finish:
  - a. Inside and Outside: Same (one-color)

**NOTE:** Select finish type below, edit to requirements and delete items not used.



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**NOTE:** Select one of the below Main Entry Panel paragraphs WITH or WITHOUT Swing Panels, deleting all others. Edit to suit project requirements.

1. Main Entry Panel with a Swing Panel: Provide manufacturer's standard lever handles on the inside and outside, a lockset with lockable latch, multi-point locking with a dead bolt and rods at the top and bottom on primary panel only.
  - a. After turn of key or thumbturn, depression of handles withdraws latch.
  - b. Lifting of handles engages rods and turn of key or thumb turn engages deadbolt and operates lock.
  - c. [ **Secondary Swing Panel: Provide two-point locking with flat handles on inside only for the secondary swing panel. ]**
  - d. Lever Handle - Finish:
    - 1). Brushed satin stainless steel

**NOTE:** Handle above is standard; other option below may require an upcharge.  
ADA handle only available in "Brushed satin stainless steel."

- 1). [ **Titanium black stainless steel** ]
- 2). [ **Oil rubbed bronze solid brass.** ]
- 3). [ **Satin nickel solid brass.** ]
- 4). [ **White solid brass.** ]
- e. Locking:
  - 1). Standard profile cylinder
2. Main Entry Panel: Provide manufacturer's standard flat handle on inside only with concealed two-point locking hardware operated by 180° turn of handle.

**NOTE:** With the option above, the main entry panel is operable from inside only and that there is no latch.  
Other compatible lever, L-shaped and push-pull handle styles and finishes are available from other suppliers.

3. Secondary Panels and Pairs of Folding Panels: Provide manufacturer's [ **flat handles** ] [ **removable custodial handles** ] and concealed two-point locking hardware operated by 180° turn of handle between each pair. Face applied flush bolt locking NOT acceptable.

**NOTE:** Flat handles above are typical; removable custodial handles are an option that may require an upcharge.

- a. Flat Handle - Finish:
  - 1). Brushed satin stainless steel.

**NOTE:** Handle above is standard; other option below may require an upcharge.

- 2). [ **Titanium black stainless steel.** ]
4. Handle Height: 41-3/8 inch (105 cm) centered from bottom of panel or as otherwise indicated.
5. Locking rods with [ **standard** ] [ **reinforced** ] end caps at the top and bottom. Rods to have a stroke of 15/16 inch (24 mm).
6. Additional profile cylinders to be [ **keyed alike.** ] [ **keyed differently.** ]
- D. Sliding-Folding Hardware: Provide manufacturer's standard combination sliding and folding hardware with top and bottom tracks and threshold. All running carriages to be with sealed, self-lubricating, ball bearing multi-rollers. Surface mounted hinges and running carriages NOT acceptable.

**NOTE:** Weight of panels borne by the bottom of the guide channel in the sill is NOT acceptable.

1. Lower Running Carriage Carrying Capacity: 220 lbs (100 kgs)



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2. Upper guide carriage and lower running carriage provided with two vertical stainless steel wheels and two horizontal polyamide wheels.
3. Vertical wheels to ride on top of stainless steel guide track covers over the full length of the sill track.
4. Wheels riding on aluminum surfaces NOT acceptable.

**NOTE:** Select from the following Sill types, edit to suit and delete those not meeting project requirements.

5. Sill Type: < **insert sill type** >
  - a. [ **Raised sill** ]
  - b. [ **Flush sill** ]
  - c. [ **Low profile saddle sill** ]
  - d. [ **Intermediate sill** ]
  - e. Finish: Aluminum with
    - 1). [ **a clear anodized finish.** ]
    - 2). [ **a dark bronze anodized finish.** ]
    - 3). [ **finish to match panel.** ]
  - f. Cover plate over sill NOT acceptable.
6. Hinges: [ **Clear** ] [ **Dark bronze** ] anodized aluminum with stainless steel security hinge pins and set-screws.
7. Adjustment: Provide folding/sliding hardware capable of compensation and adjustments without needing to remove panels from tracks, in width, 1/16 inch (1.5 mm) per hinge and in height, 5/64 inch (2 mm) up and down.
- E. Sound Gasketing: Manufacturer's double layer EPDM between panels and EPDM gasket, Q-Ion gasket, or brush seal between panel and frame, or brush seals with a two-layer fiberglass reinforced polyamide fin attached at both inner and outer edge of bottom of door panels with a recessed sill or on frame for sealing between panels and between panel and frame.

**NOTE:** The manufacturer's weatherstripping is determined at the factory by the direction of swing, the panel configuration, the type of locking and the type of sill.

- F. Fasteners: Tapered pins or stainless steel screws for connecting frame components.

## 2.04 FABRICATION

- A. Folding Glass Wall: Extruded aluminum frame and panel profiles, corner connectors and hinges, sliding and folding hardware, locking hardware and handles, glass and glazing and sound gasketing.
  1. Each unit factory pre-assembled and shipped with complete system 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. Provide sidelights, transoms, corner posts, or single or double doors as indicated.

**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.

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- a. Examine surfaces of openings and verify dimensions; verify rough openings are level, plumb, and square with no unevenness, bowing, or bumps on the floor; and other conditions as required by the manufacturer for readiness to receive Work.
- b. Verify 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 both wind load and eccentric load when the panels are stacked open.

**NOTE:** Prior to installing NanaWall, it is recommended that all building dead loads be applied to the header. Allow a reasonable amount of time for the dead load's effect on the header; only then can the building's live load be used to meet the above requirements of  $L/720$  or 1/4 inch (6 mm). If this is not done, 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 Folding Glass Partition system in accordance with the Drawings, approved submittals, manufacturer's recommendations and installation instructions, and as follows:
  1. Properly seal around opening perimeter.
  2. Securely attach anchorage devices to rigidly fit frame in place, level, straight, plumb and square. Install frame in proper elevation, plane and location, and in proper alignment with other work.
  3. Install panels, handles, lockset, gasketing 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 Folding Glass 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 Folding 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)