

SECTION 10 22 43**SLIDING GLASS PARTITIONS****SECTION 10 22 43****SLIDING GLASS PARTITIONS****PART 1 GENERAL****1.01 SUMMARY**

- A. Section includes furnishing and installing a single track, sliding thermally broken aluminum framed glass door, wall or partition panel system that includes:
1. Aluminum frame
 2. Tracks
 3. Threshold
 4. Sliding panels
 5. Swing panels
 6. Stacking bays
 7. Sliding-swinging and locking hardware
 8. Sound gasketing
 9. Glass and glazing
 10. 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 06 20 00, Finish Carpentry
 4. Section 07 90 00, Joint Protection
 5. Section 08 42 23, Glass Entrance Swing Doors
 6. Section 08 43 29, Sliding Glass Storefronts: NanaWall HSW60
 7. Section 08 51 13, Aluminum Windows: NanaWall SL68, tilt-turn, casement window
 8. Section 09 22 16, Non-Structural Metal Framing: Metal framing R.O. and reinforcement
 9. Section 10 22 39, Folding Glass Partitions: NanaWall SL60

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 502, Voluntary Specification for Field Testing of Newly Installed Fenestration Products
 - b. AAMA 611, Voluntary Specification for Anodized Architectural Aluminum

- c. AAMA 920, Operation / Cycling Performance
 - 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
 - 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 E90-09, Standard Test Method for Laboratory Measurements of Airborne Sound Transmission Loss of Building Partitions and Elements
 - d. ASTM E413, Classification for Rating Sound Insulation
 - e. ASTM E1332, Standard Classification for Rating Outdoor-Indoor Sound Attenuation
 - f. ASTM E2068, Standard Test Method to Determine the Opening and Breakaway Forces of Sliding Windows and Doors
 - g. 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
 - a. CPSC 16CFR-1201, Safety Standard for Architectural Glazing Materials
 - 5. CSA Group (Canadian Standards Association); www.csagroup.org/global/en/home
 - a. CSA A440S1 - The Canadian supplement to North American (NAFS) standards
 - 6. DIN. "Deutsches Institut für Normung" (German institute for standardization); www.en-standard.eu/din-standards
 - a. DIN EN ISO 717-1, Acoustics – Rating of sound insulation in buildings and building elements
 - b. DIN EN ISO 9001, 2015 quality management system registration
 - c. DIN EN ISO 10140-1, 2, 4 & 5, Airborne sound measurement
 - d. DIN EN ISO 14001, 2015 environmental management system registration
 - e. DIN 52210-3, Testing of acoustics in buildings - Airborne and impact sound insulation - Laboratory measurements of sound insulation of building elements and field measurements between rooms
 - f. DIN 52210-4, Tests in Building Acoustics - Airborne And Impact Sound
 - 7. FL. Florida Building Commission - Product Approval; https://floridabuilding.org/pr/pr_app_srch.aspx
- 1.03 ADMINISTRATIVE REQUIREMENTS
- A. Coordination: Coordinate Sliding 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 Sliding 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. Product Drawings: Indicate Sliding Glass Partition 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.
- D. Installation, Operation, and Maintenance Data: Submit Owner's Manual from manufacturer. Identity with project name, location, and completion date, and type and size of the 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 Sliding Glass Partition.

- 4). MR Credit 3: Materials Reuse - 5% (MRc3.1) or 10% (MRc3.2)
 - a). Submit percentage of products made from plant materials with a less than 10-year harvest cycle against the total value of building materials on the project.
 - 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. 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 Sliding 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
 - a). Submit calculations or measurements for occupant spaces to meet sound transmission class ratings between adjacent spaces and reverberation time requirements within a room.

- F. 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. EA c2, MRc1, EQc7, EQc8, EQc9
- 1.05 QUALITY ASSURANCE
 - A. Manufacturer Qualifications: Manufacturer capable of providing complete, precision built, engineered, pre-fitted units with a minimum thirty (30) 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.
 - 1. Installer to be trained and certified by manufacturer.
 - C. Single Source Responsibility: Furnish Sliding 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.), stack storage area, [**floor bolt socket locations**] [**and threshold depressions to receive sill.**] Mark field measurements on product drawing submittal.
- 1.08 WARRANTY
 - A. Manufacturer Warranty: Provide Sliding 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 Insulated 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 specific system approved or certified trained installer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Basis-of-Design Product by Manufacturer: **NanaWall HSW60** 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

NOTE: 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 502.

- | | |
|---|--------------------------------|
| A. Performance Criteria (Lab Tested): | Low Profile Saddle Sill |
| 1. Forced Entry (ASTM F842): | Meets Type A - Grade 40 |
| 2. Swing Panel - Operation / Cycling Performance (AAMA 920): | 500,000 cycles |
| 3. Sliding Glass Storefront Units tested to AAMA/WDMA/CSA 101/I.S.2/A440. | |
| 4. Acoustic Performance | STC (Rw) |

NOTE: Acoustical system STC and Rw ratings per ASTM E413 and DIN 52210-3 are from testing of full panel systems by an independent and accredited acoustical laboratory in accordance with ASTM E90-09 and DIN 52210-4 test procedure. A complete and unedited written test report is available upon request.
 See manufacturer's latest published data regarding performance.

- a. [System STC (Rw) 43 (43) with head track recessed and 1-9/16 inch (40 mm) double IGU, 8 mm laminated and 8 mm tempered STC 46 glass]
- b. [System STC (Rw) 41 (41) with 1-9/16 inch (40 mm) double IGU, 8 mm laminated and 8 mm tempered STC 46 glass]
- c. [System STC (Rw) 37 (38) and OITC 31 with 1-5/16 inch (34 mm) double IGU, 8 mm laminated and 6 mm tempered STC 41 glass]
- d. [System STC (Rw) 32 (33) and OITC 26 with 15/16 inch (24 mm) double IGU, 4 mm and 4 mm STC 31 tempered glass]

NOTE: Acoustical system STC (Rw) ratings below are calculated interpolations based on the full panel systems testing for the full panel system with flush sill. Calculations of system STC (Rw) from other glazing STC is available on request.

- e. [System STC (Rw) 43 (43) with head track recessed and 1-5/8 inch (42 mm) double IGU, 8 mm + 8 mm STC 47 enhanced laminated glass]
- f. [System STC (Rw) 41 (41) with 1-5/8 inch (42 mm) double IGU, 8 mm + 8 mm STC 47 enhanced laminated glass]
- g. [System STC (Rw) 38 (38) with 1-7/16 inch (36 mm) double IGU, 6 mm + 6 mm STC 42 laminated glass]

- h. [System STC (Rw) 36 (36) with 3/8-inch (10 mm) STC 38 laminated glass]
 - i. [System STC (Rw) 35 (35) with 1/4-inch (6 mm) STC 35 laminated glass]
 - j. [System STC (Rw) 32 (32) with 1/4-inch (6 mm) STC 31 tempered glass]
- 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. EA2: *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.
 - 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.
- 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 and swing hardware with top and bottom tracks.
 - 3. Panel Configuration:
 - a. [Straight]
 - b. [Segmented curve]
 - c. [90° angle turn/ open corner]
 - d. [135° angle turn]
 - e. [Window/ door combination]
 - 4. Stack Storage Configuration:
 - a. [Remote pocket]
 - b. [Jamb wall]
 - c. [Behind swing door]
 - d. [Straight wall]
 - e. [Jamb wall pocket(s)]

NOTE: Sizes and Configurations: <http://www.nanawall.com/products/hsw60/options>

See manufacturer drawings for selected custom dimensions within maximum frame sizes possible as indicated in manufacturer's literature.

NOTE: See drawings for selected number of panels and configuration.

5. Mounting Type: Top-hung
6. Panel Type: Multiple unattached
 - a. [With Entry/Egress panel hinged to side jamb.]
 - b. [With Entry/Egress panel convertible to sliding panel.]

2.03 MATERIALS

- A. Thermally Broken Sliding Glass Storefront Description: Standard top-hung, single-track, interlocking aluminum-framed sliding glass storefront system that can be pocketed when open and have a swing door hinged off a side jamb or within a sliding panel. Manufacturer's standard frame and panel profiles, with head track, stacking bays, side jambs, sliding panels, and swing panels with dimensions as shown on Drawings.
1. Provide clear anodized aluminum head track with aluminum covers on both sides that match aluminum profile finish.
 2. Panels and Frames:
 - a. Panels:
 - 1). Single lite.

NOTE: Single lite above is standard; other options below may require an upcharge.
Refer to manufacturer's size chart for glass panel sizes requiring the use of horizontal mullions.

- 2). [Multiple lites with horizontal mullion(s) at height(s) indicated from the bottom of the panel.]
- 3). [Single lite with simulated divided lites in pattern indicated.]
- 4). Panel Size (W x H): As indicated.

NOTE: Maximum W x H panel sizes up to 12'-0" by 4'-0" (3.660 m by 1.2 m).
Panels over 10'-6" high require an intermediate horizontal mullion.

- 5). Rail Depth: 2-5/16 inch (59 mm)
- 6). Top Rail Width: 4-5/16 inch (110 mm)
- 7). Bottom Rail Width:
 - a). 2-3/8 inch (60 mm) for sliding panel and 4-5/16 inch (110 mm) for swing panel
 - b). [Manufacturer's standard kickplate with height indicated.]

NOTE: Indicate kickplate height. Select height between 6 and 12 inches (152 and 305 mm) high.

- b. Frames
 - 1). Top Track Depth: 3-1/8 inch (80 mm)
 - 2). Top Track Width: 4-3/8 inch (111 mm)
 - 3). Side Jambs Width: 1-9/16 inch (40 mm)

Note: Select from the following Sill Types, edit to suit and delete those not meeting project requirements:

3. Sill Type:
 - a. [Low profile saddle sill]
 - b. [Standard flush sill]
 - c. [No sill, floor sockets without a floor track]
 - d. [Surface mounted interior sill for interior application]

4. Sill Aluminum Finish:
 - a. [Clear anodized]
 - b. [Dark bronze anodized]
5. Aluminium Extrusion: AIMgSi0.5 alloy, 6063-T5 (F-22- European Standard)
 - a. Thickness: 0.078 inch (2.0 mm) nominal
 - b. Thermal 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 thermal breaks not acceptable.
6. Panels and Frame Aluminum Finish:
 - a. [Same (one-color)]
 - b. [Different (two-color)]

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

- c. Anodized (AAMA 611):
 - 1). [Clear]
 - 2). [Dark Bronze]
 - d. Powder Coat (AAMA 2604):
 - 1). Color as chosen from manufacturer's powder coating finish chart from
 - a). [Manufacturer's standard selection of 50 colors – matte.]
 - b). [Manufacturer's full RAL selection.]
 - i. [High Gloss]
 - ii. [Matte]
 - c). [Custom finish]
- B. Glass and Glazing:
1. Safety Glazing: In compliance with ASTM C1036, ASTM C1048, ANSI Z97.1 and CPSC 16CFR 1201.

NOTE: Unlike wet glazing, NanaWall's standard dry glazing method helps reduce instances of seal failure.

2. Manufacturer's [**tempered**] [**and**] [**laminated**] glass lites in [**single**] [**double**] [**triple**] insulated glazing units, dry glazed with glass stops on the inside.

NOTE: Select and edit glass type(s) to meet building code, acoustic, bullet resistant and/or security, and other project requirements with other glass available from manufacturer.

Contact NanaWall for availability of other commercial glass types.

For laminated glass, please check with NanaWall the availability of Vanceva White Collection and other color interlayers.

- a. Glass Lite / Insulated Glass Unit (IGU):
 - 1). Single:
 - a). [3/8 inch (10 mm) STC 38 laminated glass to achieve unit STC of 36.]
 - b). [1/4 inch (6 mm) STC 35 laminated glass to achieve unit STC of 35.]
 - c). [1/4 inch (6 mm) STC 31 tempered glass to achieve unit STC of 32]
 - 2). Double IGU:
 - a). [1-5/8 inch (42 mm), 8 mm + 8 mm STC 47 enhanced laminated glass with head track recessed to achieve unit STC of 43.]

- b). [1-5/8 inch (42 mm), 8 mm + 8 mm STC 47 enhanced laminated glass to achieve unit STC of 41.]
 - c). [1-7/16 inch (36 mm), 6 mm + 6 mm STC 42 laminated glass to achieve unit STC of 38.]
 - d). [15/16 inch (24 mm), 4 mm + 4 mm STC 31 tempered glass to achieve unit STC of 32.]
- 3). Triple IGU:
- a). 1-7/16 inch (36 mm) thick.

NOTE: Subparagraphs below are options for Double and Triple IGU items above.

- b. IGU Fill:
 - 1). Air filled
- c. Glass Lite Type:
 - 1). Reduced iron

NOTE: Items below are options and may require an upcharge.

- 2). [Low iron]
- 3). [Solar bronze]
- 4). [Solar gray]
- d. Glass Spacers: Manufacturer's standard
 - 1). [silver gray finish with capillary tubes]
 - 2). [black finish with capillary tubes]
 - 3). [silver gray finish without capillary tubes]
 - 4). [black finish without capillary tubes]
- e. IGU Surface:
 - 1). Clear

C. Locking Hardware and Handles:

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(s) for Models WITH a [**Pair of**] Swing Panel(s): Provide manufacturer's [**Standard lever handles**] or [**Lever handles with return**] on the inside and outside, and a standard lockset with a lockable latch and multi-point locking with a dead bolt and rods at the top and bottom [**only**].
 - a. Rods to be concealed and not edge mounted.
 - b. After turn of key or thumb-turn, depression of handles withdraws latch.
 - c. Lifting of handles engages rods and turn of key or thumb turn engages deadbolt and operates lock.
 - d. Lever Handles - Finish:
 - 1). Brushed satin stainless steel
 - 2). [Black titanium stainless steel]

NOTE: Handles above are standard; other options below may require an upcharge.
Lever handle with return only available in "Brushed satin stainless steel."

- 3). [Copper-nickel stainless steel antiviral and antimicrobial]
- 4). [Oil rubbed bronze solid brass]
- 5). [Satin nickel solid brass]

- 6). [White solid brass]
- e. Locking:
 - 1). Standard profile cylinder
 - 2). [Adapter for Small Format Interchangeable Core (SFIC)]
- 2. Main Entry Panel(s) for Models WITH Swing Panel(s): Provide manufacturer's push-pull handles with separate lockset and dead bolt.

NOTE: Option above is recommended with a door closer.

Copper-nickel finish handle may require an upcharge.

- a. Push-pull handles in a brushed stainless-steel finish and stainless steel flat handles in a [**brushed satin finish.**] [**black titanium finish.**] [**copper-nickel finish.**]
- 3. Main Entry Panel(s) for Models WITH Swing Panel(s): No hardware or locking provided by manufacturer; Field installed panic device by Section 08 71 00 prepped for commercial application.

NOTE: Using panic device hardware by others invalidates manufacturer's design wind-load pressure test.

- a. Panic hardware:
 - 1). [Von Duprin 33/35A Series Narrow Stile Rim Exit Device]
- 4. Sliding Panel to be Opened First for Models WITHOUT a Swing Panel: Provide manufacturer's standard L-shaped handle on the inside, flat handle on the outside and lock set with profile cylinder. Operation of lockset is by turn of key from the outside and with a thumb-turn from the inside with a two-point locking hardware operated by 180° turn of the handle.
 - a. L-Shaped Handles - Finish:
 - 1). Brushed satin stainless steel
 - 2). [Black titanium stainless steel]
- 5. Sliding Panel to be Opened First for Models WITHOUT a Swing Panel: Provide manufacturer's standard flat handle on the inside and on the outside and a lockset with a profile cylinder. Operation of lock set is by turn of key from the outside and from the inside with a two-point locking hardware operated by 180° turn of the handle.

NOTE: Key operation from the inside above may not meet egress requirements.

- 6. Main Entry Panel for Models WITHOUT Swing Panel: Provide manufacturer's standard flat handle on inside only with concealed two-point locking hardware operated by 180° turn of handle.

NOTE: Note that with the option above, the main entry panel is operable from inside only and that there is no latch.

- 7. Secondary Panels: Provide manufacturer's [**Standard flat handles**] [**Removable custodial handles**] and concealed one or two-point locking hardware operated by 180° turn of handle. Face applied flush bolt locking not acceptable.

NOTE: Flat handles above are standard with removable custodial handles an option that may require an upcharge.

- a. Flat Handle - Finish:
 - 1). Brushed satin stainless steel
 - 2). [Black titanium stainless steel]

NOTE: Handles above are standard; other options below may require an upcharge.

- 3). [Copper-nickel stainless steel antiviral and antimicrobial]

- 4). [Aluminum with powder coat finish and color to match frame.]

NOTE: Finishes to match are closest matches available by the manufacturer.
Review for acceptability.

8. Handle Height: 41-3/8 inch (105 cm) centered from bottom of panel or as otherwise indicated.
9. Aluminum locking rods with standard fiberglass reinforced polyamide end caps at the bottom (and top on certain panels). Rods to have a stroke of 15/16 inch (24 mm).
10. Additional profile cylinders to be [**keyed alike.**] [**keyed differently.**]
11. Incorporated Swing Panel:
 - a. Provide crank handle stored in flap on panel stile to convert sliding panel to a swing panel and vice versa.
 - b. Provide polyamide conversion box located on upper arm of top rail and circular cover profile located on pivot side of upper arm of top rail. Finish:
 - 1). Silver gray
 - 2). [White]
 - 3). [Black]
 - 4). [Dark brown]
 - c. Swing Door Attachment: Geared positive attachment only to affix swing door to the frame for incorporated swing doors for ease of operation and rigid security.
 - d. Pinch Resistance: Provide rounded extrusions on pivot side of incorporated swing panels.
 - e. For the No sill, floor sockets without a floor track option, provide a stainless-steel finish pivot box for socket.

D. Sliding-Swinging Hardware: Provide manufacturer's standard hardware.

1. For each sliding panel, provide two (2) two-three wheeled, sintered bronze (oil impregnated) unidirectional sliding panel carriers with a one wheeled, polyamide guide rollers that are attached to the panels with stainless steel rods.
 - a. Maximum carrying capacity of two carriers on a panel to be 330 lbs. (150 kgs)
 - b. Provide on all four corners of sliding panels and incorporated swing panels, thermally broken, die cast zinc multifunctional corner fittings with carrier connectors, male and female locking receptacles, hinges and hinge pins as required.
 - c. Finish: Powder coated, closest match to finish of frame and panels.

NOTE: Corner connectors are only available in powder-coated finishes. If anodized panel and frame finishes are selected, there may be aesthetic issues.

- d. Adjustment: Provide system capable of specified amount of adjustments without removing panels from tracks.
- E. Sound Gasketing: Manufacturer's double layer EPDM between panels and EPDM 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 sound gasketing is determined at the factory by the direction of swing, the panel configuration, the type of locking and the type of sill.

- F. Fasteners: Stainless steel machine screws for connecting frame components.

2.04 FABRICATION

- A. Extruded aluminum frame and panel profiles, corner connectors and hinges, sliding hardware, locking hardware and handles, glass and glazing and sound gasketing components to construct sliding glass wall with stacking bays.
 - 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. 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.
 - 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 both wind load and eccentric load when the panels are stacked open. Provide structural support for stacking bay.

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 Sliding Glass 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 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, lock set, sound 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 Sliding 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 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 requirements of a specific construction project.

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