
SECTION 08 35 40

SLIDING WOOD FRAMED GLASS WALLS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Provide interior sliding wood framed glass walls with hardware, anchorage, glazing, and accessories as required for complete installation.
- B. Related Sections:
 - 1. Section 07 90 00: Perimeter sealants and back-up materials.
 - 2. Section 08 41 20: All-glass entrances and storefronts.
 - 3. Section 08 70 00: Key cylinders.

1.2 REFERENCES

- A. American Architectural Manufacturers Association/National Wood Window and Door Association, AAMA/NWWDA 101/I.S.2: Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.
- B. Glass Association of North America (GANA): Glazing Manual.
- C. National Assoc. of Architectural Metal Manuf. (NAAMM): Metal Finishes Manual.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Design/Build: Provide special engineering to ensure compliance with applicable codes and Contract Documents.
- B. Pre-Installation Meeting: Convene not less than one week prior to commencing work of this Section. Require attendance of those directly affecting work of this Section.
 - 1. Review installation procedures and coordination required with related work.

1.4 SUBMITTALS

- A. Product Data: Submit manufacturer's literature.
- B. Shop Drawings: Indicate pertinent dimensioning, general construction, component connections and locations, anchor methods and locations, hardware locations, and relevant details.
- C. Samples: Furnish samples of wood finish, glass and glazing gasket.
 - 1. Submit complete fabricated corner section of sliding wood framed glass wall unit.
- D. Design/Build Certificates: Submit certification signed by California licensed structural engineer indicating compliance with Contract Documents and code requirements.

PART 2 - PRODUCTS**2.1 SYSTEMS MANUFACTURERS**

- A. NanaWall Systems, Inc., Mill Valley, CA. (800.873.5673).
- B. C.R. Laurence Co., Los Angeles, CA (800.421.6144).
- C. Substitutions: Refer to Section 01 25 00.

2.2 MATERIALS

- A. System Description: Provide interior sliding wood framed glass walls with hardware, anchorage, glazing, and accessories.
- B. Regulatory Requirements, General: Comply with applicable California Building Code load requirements, without breakage, failure of any part, or malfunction of operation.
- C. Regulatory Requirements for Glazing: Comply with CPSC 16 CFR 1201, applicable code requirements, and pass ANSI Z97.1.
- D. California Title 24 CEC Regulatory Requirements: Comply with California Energy Commission requirements regarding energy performance of walls.
 - 1. Manufacturer shall be responsible for providing information required by authorities necessary to verify conformance.
 - 2. Entire assembly, including glass and glazing, shall be certified by National Fenestration Rating Council (NFRC) and shall bear NFRC Label indicating energy performance technical information.
- E. Accessibility Regulatory Requirements: Provide for assuring access for persons with disabilities in accordance with state and federal regulations.
 - 3. California Regulations: Comply with California Building Standards Code.
 - 4. Federal Regulations: Comply with Americans with Disabilities Act (ADA) Standards.
- F. Sliding Wood Framed Glass Walls: System with profiles as indicated on Drawings; provide extruded aluminum security type glass stops of profile to suit frame design.
 - 1. Basis of Design: Nanawall/HSW66.
 - 2. Wood Type: As indicated; not less than Architectural Woodwork Standard (AWS) Premium Grade wood members.
 - 3. Finish: AWS/Premium Grade opaque painted finish as approved by Architect.
- G. Hardware: Barrier-free sliding wall system meeting code requirements for providing access for people with physical disabilities; by system manufacturer.
 - 1. Metal and Finish: Match wall system.

2. Hardware: Provide manufacturers complete standard hardware system except as indicated; match sliding wall finish unless otherwise indicated.
 - a. Cylinders: Provided under Section 08 70 00.
 - b. Flat Handles: Match wood for sliding walls unless otherwise indicated.
 - c. Sills: As indicated on Drawings, as selected by Architect from manufacturer's full range of sills (including sill-less) where not otherwise indicated.
- H. Glass: Coordinate glazing with sliding wall system.
 1. Manufacturers:
 - a. PPG Industries, Inc.
 - b. Oldcastle Glass.
 - c. Guardian Industries Corp.
 - d. Substitutions: Refer to Section 01 25 00.
 2. Glass: ASTM C1048, Kind FT, fully tempered select glazing quality glass, safety glazing; nominal thickness 1/4".
 3. Total Unit Thickness: Nominal 1/4".
- I. Glazing Accessories: Of type recommended by manufacturer to suit security locations and applications for dry glazing installation.
 1. Setting Blocks: Neoprene or EPDM, 80-90 Shore A durometer hardness; 4" long by 3/8" thick by 1/4" high; ASTM C864.
 2. Spacer Shims: Neoprene or EDPM; 45-55 Shore A durometer hardness; 3" long by 3/32" thick by 1/4" high; ASTM C864.
 3. Edge Blocks: Neoprene or EPDM, 60-70 Shore A durometer hardness; 4" long with minimum two per jamb located at top and bottom edges of glass; ASTM C864.
 4. Glazing Gaskets: Exterior neoprene or EDPM; interior neoprene, EPDM or vinyl; miter corner joints; ASTM C509 or C864.
- J. Miscellaneous Materials:
 1. Fasteners: Aluminum or non-magnetic stainless steel of type that will not cause electrolytic action or corrosion.
 - a. Do not use exposed fasteners except where unavoidable for assembly or for application of hardware.
 - b. Indicate exposed fasteners on shop drawings for specific approval; exposed fasteners shall be Phillips flat-head screws or Allen screws with finish matching item fastened.
 - c. Provide concealed fasteners for glazing stops.

2. Steel Reinforcement and Brackets: Manufacturer's standard with minimum 2 oz. hot-dip zinc coating, ASTM A123, applied after fabrication.
3. Bituminous Paint: Cold-applied mastic, SSPC Paint 12, compounded for 30 mil thickness per coat.
4. Anchoring Devices: Corrosion resistant type capable of supporting walls system and superimposed design loads; design to allow adjustments of system prior to being permanently fastened in place.

2.3 FABRICATION

- A. Fabricate sliding wall system to allow for clearances and shim spacing around perimeter of assemblies to enable installation; provide for thermal movement.
- B. Provide anchorage devices to securely and rigidly fit walls assemblies in place.
- C. Accurately fit together joints and corners; match components ensuring continuity of line and design; ensure joints and connections are flush, hairline and weatherproof.
- D. Provide structural reinforcing within framing members where required to maintain rigidity and as required to accommodate design loads.
- E. Complete cutting, fitting, forming, drilling and grinding of metal work prior to cleaning, finishing, treatment, and application of coating.
- F. Finishing: After fabrication, prepare surfaces for finishing in accordance with recommendations of aluminum producer and finish manufacturer.
 1. Finish components of each assembly simultaneously to attain uniformity of color.
- G. Fit and assemble work at shop to greatest extent possible; disassemble only as required for shipment and erection.
- H. Reinforce work as necessary for performance requirements and for support.
 1. Provide internal reinforcing for hardware.
- I. Fabricate and apply hardware, disassemble only as required for transportation and installation.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine surfaces of openings and verify dimensions; verify rough openings are level, plumb, and square and within wall manufacturer recommended tolerances.
- B. Beginning of work constitutes acceptance of existing conditions.

3.2 INSTALLATION

- A. Install interior wood framed sliding walls in accordance with manufacturer's recommendations.
- B. Ensure sliding walls are plumb, level and free of warp or twist; maintain dimensional tolerances and alignment with adjacent work.
 - 1. Maximum Variation from Plane or Location: 1/8" in 12'-0", with maximum 1/2" variation in total length.
 - 2. Maximum Offset Between Members: 1/16".
- C. Use sufficient anchorage devices to securely and rigidly fasten system to building.
- D. Install hardware in accordance with manufacturer's recommendations, using proper templates.
 - 1. Install to operate freely and smoothly, with a maximum operating pressure of 5 pounds in accordance California Title 24 and with ADA Standards.
 - 2. Coordinate installation of cylinders with Section 08 71 00.
- E. Glass Installation: Comply with GANA Glazing Manual and glazing manufacturer instructions.
 - 1. Do not allow glass to touch wood or metal surfaces.

3.3 CLEANING

- A. Clean exposed surfaces promptly after installation of components, exercising care to avoid damage of finish.
- B. Remove nonpermanent labels immediately after sealant cures; cure sealants for high early strength and durability.
- C. Remove and replace glass that is broken, chipped, cracked, abraded or damaged during construction period, including natural causes, accidents and vandalism.

END OF SECTION