

SECTION 10 22 19

FRAMELESS GLASS DEMOUNTABLE PARTITIONS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes

1. Demountable Frameless glass sliding doors and pivot doors with fixed butt glass sidelight office fronts
2. Demountable and Movable unitized non-progressive demising partitions.
3. Trim, Sealants, Hardware and Accessories.

1.3 RELATED SECTIONS

- A. Section 01 25 00 - Substitution Procedures
- B. Section 05 12 00 - Structural Steel: Track supports.
- C. Section 06 10 00 – Carpentry Wood: Track Supports.
- D. Section 08 14 16 - Wood Doors
- E. Section 08 71 00 - Door Hardware
- F. Section 08 80 00 - Glass and Glazing
- G. Section 09 50 00 - Ceilings
- H. Section 09 68 00 - Carpeting
- I. Section 26 20 00 - Power System
- J. Section 27 00 00 - Communication System

1.4 REFERENCES

- A. American National Standards Institute (ANSI)
  - 1. ANSI Z97.1 Safety Glazing Materials Used in Office Buildings – Safety Performance Specifications and Method of Tests
  - 2. ANSI BIFMA X5.6-2003, Section 6.2 Panel System Strength Test – Static Function Load
  - 3. ANSI BIFMA X5.6-2003, Section 6.3 Panel System Strength Test – Static Proof Load
- B. American Society of Testing and Materials International (ASTM)
  - 1. ASTM C103-60, Standard Specification for Flat Glass
  - 2. ASTM C1048-04, Standard Specification for Heat-Treated Flat Glass-Kind HS, Kind HT, Coated and Uncoated
  - 3. ASTM E72, Standard Test Methods of Conducting Strength Tests of Panels for Building Construction
  - 4. ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials
  - 5. ASTM E90, Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
  - 6. ASTM E413, Classification for Rating Sound Insulation
- C. Consumer Product Safety Commission
  - 1. CPSC 16 CFR 1201 Architectural Glazing Standards and Related Materials
- D. National Fire Protection Association (NFPA) 70
  - 1. National Electrical Code, 2008 Edition

1.5 PERFORMANCE REQUIREMENTS

- A. Demountable Frameless glass sliding doors and pivot doors with fixed butt glass sidelight office fronts
  - 1. Glass panel acoustic performance: Per rating of specified glass type and thickness
  - 2. Deflection: Limit deflection to flexure limit of glass with full recovery of glazing
  - 3. Provide frameless glass sliding or pivot doors where indicated.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Not less than 5 years experience in the actual production of specified products.
- B. Installer Qualifications: Qualified installer to have a minimum of 5 years documented experience in the work of this section and who has specialized in the installation of work similar to that required for this project.

1.7 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Plans, sections, elevations, details and attachments to other work.
  - 1. Indicate materials, methods of construction, attachment or anchorage details, erection diagrams of pre-assembled components, connections, explanatory notes and other information necessary for completion of work. Cross reference to design drawings and specifications.
  - 2. Indicate wall layout, including doors and hardware, elevations, opening locations, special panels and conditions at adjacent construction.
  - 3. Do not commence manufacture or order materials before shop drawings are reviewed and accepted by professional of record.
- C. Samples: Submit samples of each required finish and color. Prepare samples on same materials which will be used in partition assemblies.
  - 1. Finish Samples
    - a. For initial selection: For units with factory-applied color finishes.
    - b. For verification: For each type of exposed finish and trim required.
- D. Product test reports from approved independent testing laboratory, certifying compliance with STC Rating, Surface Burning Rating, Structural Performance and Indoor Air Quality (Greenguard) Performance requirements.

1.8 LEED SUBMITTALS

- A. Submit product data for the following credits in accordance to LEED 2009 for Commercial Interiors (CI):
  - 1. Materials and Resources (MR)
    - a. Credit MR 2 – Construction Waste Management
    - b. Credit MR 3.2 – Materials Reuse – Furniture and Furnishings
    - c. Credit MR 4 – Recycled Content
    - d. Credit MR 5 – Regional Materials

2. Indoor Environmental Quality (IEQ)
  - a. Credit IEQ 3.2 – Construction IAQ Management Plan, Before Occupancy
  - b. Credit IEQ 8.1 – Daylight and Views – Daylight
  - c. Credit IEQ 8.2 – Daylight and Views – Views
3. Innovation & Design Process (ID)
  - a. Credit IDP 1 – Innovation in Design

#### 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver the demountable partition system components cartoned or crated to provide protection during transit and job storage.
- B. Inspect the demountable partition system components upon delivery for damage. Minor damages may be repaired, provided finish items are equal to new work and acceptable to Architect. Remove and replace damaged items as directed.
- C. Keep stored material covered and protected from damage.

#### 1.10 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install the demountable partition system components under environmental conditions outside manufacturer's absolute limits.
- B. Environmental Limitations: Do not deliver or install the system components until building is enclosed and finishing operations, including ceiling and floor covering installation and painting, are completed.
- C. Field measurements: Indicate all site dimensions including ceiling heights and "hold-to" dimensions on shop drawings.
- D. Coordination of work: Coordinate layout and installation of the system components with other units of work. Installation of ceilings, floor coverings, lighting fixtures, HVAC equipment and fire suppression systems should be complete before the system components are installed.

#### 1.11 WARRANTY

- A. Submit, for Owner's acceptance, manufacturer's standard limited warranty document executed by authorized company official.
  1. Warranty period: Five (5) years from date of substantial completion.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Nello Wall Systems, Inc. 6685 Santa Barbara Court, Elkridge, MD 21075. Tel: 410-579-8533 Web: [www.nellowall.com](http://www.nellowall.com), Sales Representative: ISAarchitectural 443-292-4600 [sales@ISAarchitectural.com](mailto:sales@ISAarchitectural.com)
- B. Substitutions: Not permitted.

2.2 PRODUCT

- A. Basis of Design: Provide Clarity by Nello Wall Systems, Inc.

2.3 DEMOUNTABLE FRAMELESS GLASS SLIDING AND PIVOT DOORS WITH FIXED BUTT GLASS SIDELIGHT OFFICE FRONTS

- A. Top hung frameless glass door(s) sliding along fixed glass panels, butt jointed and using dry-fit gaskets.
  - 1. Sliding Door Top track: 3 1/2" high x 2 1/16" wide, 2 piece extruded aluminum with clear anodized finish. Track to be capable of carrying a rolling door load of 220lbs (100kgs). Track to have an offset integrated glazing pocket to allow fixed glass panels to be dry-fit in place using clear pressure fit gasket seals with hook locks.
  - 2. Low Profile Two-Piece Base Track: 1-1/8" high x 7/8" wide 2 piece extruded aluminum with clear anodized finish to hold fixed glass panels in place using clear pressure fit gasket seals with hook locks.
  - 3. Floor Mounted Door Guide/Stop: Guide to match Base Track height. Guide/Stop to provide positive close and precise locking handle alignment
  - 4. Adjustable Anti-Jump Carriers: Top hung adjustable anti-jump carriers, with full ball bearing wheels, two per glass door panel. Clamps to be pressure fit attached to glass door, no drilling required or allowed.
  - 5. Tee Condition Top Track: 3 1/2" high x 7/8" wide extruded aluminum channel with clear anodized or painted to match sliding door top track. Fixed glass panels to be dry-fit in place using clear pressure fit gasket seals with hook locks.
  - 6. Frameless Glass Clarity Control-Close Sliding Door Panel
    - a. General: Maximum weight capacity of 220lbs (100kgs) to achieve an opening and closing force of maximum 5lbs, to meet the requirements of section 4.13.11 Door Opening Force of the ADA (Americans with Disabilities Act)
    - b. Glazing

## CLARITY - FRAMELESS GLASS WALL

- 1).  $\frac{1}{2}$ " thick clear tempered
  - 2).  $\frac{1}{2}$ " thick clear laminated
  - 3).  $\frac{1}{2}$ " thick, as specified in related section 08 80 00 - Glass and Glazing
- c. Exposed Edges: Flat polished
  - d. Door Frames: None allowed
  - e. Pull Handles: As specified in related section 08 71 00 - Door Hardware  
If none are specified, Nello will supply their standard 48" Ladder Pull, with brushed stainless finish
7. Fixed Glass Panels
- a. Glazing
    - 1).  $\frac{1}{2}$ " thick clear tempered
    - 2).  $\frac{1}{2}$ " thick clear laminated
    - 3).  $\frac{1}{2}$ " thick, as specified in related section 08 80 00 - Glass and Glazing
  - b. Exposed Edges: Flat polished
  - c. Vertical Wall Trim to Drywall Partitions
    - 1). Tee & Corner Conditions 1-1/8" high x 7/8" wide extruded aluminum channel, with clear anodized or painted to match sliding door top track. Fixed glass panels to be dry-fit in place using clear pressure fit gaskets.
  - d. Glass Joints
    - 1). Vertical Butt Joint –  $\frac{1}{4}$ " wide VHB tape
    - 2). Clear Silicone adhesive
- B. Demountable Self Closing Frameless Glass Pivot Door(s) with Fixed Glass Panels, Butt Jointed and Using Dry-Fit Gaskets.
1. Pivot Door Top Track – one piece aluminum anodized track 1 1/8" H x 7/8" W continuous track to house fixed glass and pivot door top patch fitting pin plate.
  2. Low Profile Two-Piece Base Track: 1-1/8" high x 7/8" wide 2 piece extruded aluminum with clear anodized finish to hold fixed glass panels in place using clear pressure fit gasket seals with hook locks.
  3. Pivot Door Bottom Patch Fitting – Bottom Patch to contain self closing feature which eliminates need to hide closer in top bulkhead or floor slab. Pivot to include 180degree swing which can be reduced to 90 degree with top mounted door stop. The standard condition of the self closer includes a stay open feature at the 90 degree position. Non Hold Open is available as an option.
  4. Frameless Glass Pivot Door Panel

## CLARITY - FRAMELESS GLASS WALL

- a. General: Maximum weight capacity of 220 lbs (100kgs) to insure proper function of self closing feature.
- b. Glazing
  - 1). ½" thick clear tempered
  - 2). ½" thick clear laminated
  - 3). ½" thick, as specified in related section 08 80 00 - Glass and Glazing
- c. Exposed Edges: Flat polished
- d. Door Frame – Not Allowed
- e. Pull Handles: As specified in related section 08 71 00 - Door Hardware  
If none are specified, Nello will supply their standard 48" Ladder Pull, with brushed stainless finish

### 5. Fixed Glass Panels

- a. Glazing
  - 1). ½" thick clear tempered
  - 2). ½" thick clear laminated
  - 3). ½" thick, as specified in related section 08 80 00 - Glass and Glazing

## 2.4 FABRICATION

- A. Demountable Frameless glass sliding doors with fixed butt glass sidelight office fronts
  1. Fabricate components in sizes and configuration as show on approved shop drawings
  2. Accurately fit and secure joints and intersections so as to be flush, hairline and soundproof.
  3. Prepare components to receive anchor devices and hardware.
  4. Arrange fasteners, attachments, and jointing to ensure concealment from view.

## 2.5 FINISHES

- A. Aluminum surfaces: Factory painted and or clear anodized to manufacturer's standard range.

## PART 3 EXECUTION

### 3.1 INSTALLATION

- A. Demountable Frameless glass sliding doors with fixed butt glass sidelight office fronts
  1. Install in accordance with manufacturer's instructions and approved shop drawings.
  2. Install demountable Frameless glass sliding doors, fixed sidelight panels and accessories after other finish operations are completed, including paint and carpet.

## CLARITY - FRAMELESS GLASS WALL

3. Install glass in accordance with GANA Glazing manual
4. Install components plumb, level, in proper plane, free from twist and warp
5. Installation Tolerances:
  - a. Maximum variation from plumb or level to be 1/8 inch in 3 feet or 1/4 inch in any 10 feet whichever is less.

### 3.2 PROTECTION

- A. Protect installed demountable partition system components until completion of project.
- B. Touch-up, repair or replace damaged demountable partition system components before Substantial Completion.

END OF SECTION