
SECTION 08 41 20

ALL-GLASS ENTRANCES

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Provide manual frameless all-glass entrances including safety glass doors, related hardware, and accessories as required for complete, operational installation.
- B. Related Work:
 - 1. Section 08 42 30: All-glass automatic entrances.
 - 2. Section 08 44 10: Glazed window wall assemblies.
 - 3. Section 08 53 00: Vinyl windows and glazed doors.
 - 4. Section 10 28 25: All-glass tub and shower enclosures.
 - 5. Section 08 71 00: Cylinders for door locks.

1.2 REFERENCES

- A. Glass Association of North America (GANA): Glazing Manual.
- B. Builders Hardware Manufacturers Association (BHMA): BHMA 1301/ ANSI A156.18, Standards for Materials and Finishes.

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Design/Build: Provide special engineering for entrances and storefronts to ensure they comply with applicable codes and Contract Documents.

1.4 SUBMITTALS

- A. Product Data: Furnish manufacturer's literature.
- B. Shop Drawings: Indicate component details, materials, finishes, dimensions, hardware and fittings, and method of anchorage.
- C. Samples: Furnish samples of metal finish.
- D. Design/Build Certificates: Submit certification signed by California licensed structural engineer indicating compliance with Contract Documents and code requirements.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Firm with minimum five years successful experience in installation of entrances similar to those specified; approved by system manufacturer.

1.6 PROJECT CONDITIONS

- A. Check openings by field measurements before fabrication to ensure proper fitting and tight joints; coordinate fabrication with shop drawings of adjacent construction where necessary to avoid delays.

PART 2 - PRODUCTS

2.1 SYSTEM MANUFACTURERS

- A. C.R. Laurence Co., Inc.
- B. DAMS Incorporated (DORALCO).
- C. Substitutions: Refer to Section 01 25 00.

2.2 MATERIALS

- A. System Description: Provide manual frameless all-glass entrance systems with structural glass entrance doors, entrance door hardware, supports, and accessories.
- B. Regulatory Requirements, Accessibility: Comply with requirements of California Building Code and Americans with Disabilities Act (ADA) Standards to ensure access to persons with disabilities.
- C. Performance Criteria: Design assemblies capable of withstanding minimum uniform test pressures as required by applicable codes when tested in accordance with ASTM E330.
- D. Glass: Nominal 1/2" select glazing quality clear tempered glass complying with ASTM C1048, Kind FT.
 - 1. Safety Glass: Conform to California Building Code and CPSC 16 CFR Part 1201, and pass ANSI Z97.1.
 - 2. Provide horizontally tempered glass without tong marks; vertical tempering permitted only where tong marks can be totally concealed in finished installation.
 - 3. Polish side edges to be exposed or to receive sealant; cut glass to tolerances necessary to provide even, 1/8" joints within plus or minus 1/16".
- E. Door Rails: Style as shown on Drawings.
 - 1. Finish: BHMA 629 (US32), bright stainless steel, mirror polish.
- F. Frameless Glass Door Hardware: Manufacturer's standard metal and finish to match door rails, unless otherwise indicated.
 - 1. Closer/Pivots: ASTM A156.4 Grade 2, center pivot set, floor closer with pivot set, with 105-degree positive stop; adjustable for maximum 5 lb. opening pressure.
 - 2. Lock: Overhead concealed electro-magnetic lock wired to access system conforming to requirements for being within reach of persons with disabilities and with grasping requirements, as acceptable to Architect and Owner.
 - 3. Push/Pulls: Design as indicated.
 - 4. Floor Plate: Provide floor plate cover for closer; metal to match door rails unless otherwise directed by Architect.
- G. Anchorages and Fastenings: Manufacturer's standard types, concealed except as otherwise required; finish exposed fasteners to match adjacent metal surfaces.

2.3 FABRICATION

- A. Locate and provide holes and cutouts to receive hardware before tempering glass; do not permit cutting, drilling or other glass alterations after tempering.
 - 1. Polish exposed ends of glass; round edges slightly.
- B. Fabricate all-glass entrance systems to accommodate required hardware and accessory items.
- C. Install hardware at fabrication plant; remove only as required for final finishing operations, and for delivery and installation of work at Project site.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas and conditions under which work is to be installed.
- B. Beginning installation signifies acceptance of conditions.

3.2 INSTALLATION

- A. Comply with manufacturer's recommendations and installation instructions.
 - 1. Install glazing in accordance with manufacturer's instructions and GANA Glazing Manual.
- B. Set units plumb, level and true to line, without warp or rack; anchor securely in place.
- C. Separate aluminum and other corrodible metal surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

3.3 ADJUSTING

- A. Adjust operating hardware to ensure proper operation.

3.4 CLEANING

- A. Clean surfaces using manufacturer's recommended cleaning methods.

END OF SECTION