

SECTION 05 73 00

CARVART
glassRAILINGS > Plan
glassRAILINGS > Uni

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Tempered Glass Structurally Glazed Railing Assemblies.

1.2 RELATED SECTIONS

- A. Section 05 5000 - Metal Fabrications
- B. Section 05 7000 - Ornamental Handrails & Railings
- C. Section 05 7300 - Handrails and Railings
- D. Section 08 8000 - Glazing

1.3 REFERENCES

- A. ASTM C 1048 – Standard Specification
- B. NAAMM Metal Finishes Manual; national Association of Architectural Metal Manufacturers

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 3300.
- B. Product Data: Submit Manufacturer's technical product data for railing components and accessories.
- C. Shop Drawings: Dimensioned drawings of railing assemblies indicating the following:
 - 1. Elevations; include joint locations, transitions, and terminations.
- D. Samples of manufacturer's finishes (As selected by Architect.)

1.5 QUALITY ASSURANCE

- A. Components and installation are to be in accordance with state and local building codes. Project structurally engineer is responsible for conformance to local building codes and project-specific requirements
- B. All components and fittings are furnished by the same manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials properly protected against damage to finished surfaces during transit.
- B. Inspect materials upon delivery for damage. Unless minor defects can be made to meet the Architect's specifications and satisfaction, damaged parts should be removed and replaced.
- C. Store materials at building site under cover in dry location

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable *Manufacturer: CARVART*
Tel: 212.675.0030

Email: info@carvart.com
1441 Broadway
New York, NY 10018

- B. Manufacturers of equivalent products not permitted

2.2 MATERIALS

- A. Aluminum Components: Conforming to ASTM B 221/ASTM B221M, Alloy 6063-T52
- B. Stainless Steel Components: Conforming to ASTM A 666, Type 304

2.3 COMPONENTS

- A. Glazing: Tempered laminated glass with PVB or structural interlayer
 - 1. Laminated Tempered Thickness: 3/4 inch nominal (19 mm) up to 1" nominal (25mm). Architect to determine appropriate build with local structural engineer
 - 2. Monolithic Tempered Thickness: 3/4 inch (21 mm). (Architect to specify)
 - 3. Color/finish: Clear, frit, pattern, gradient. Architect to specify
- B. Structurally glazed connection: Glass is structurally adhered to aluminum cleat and pre-fabricated before site delivery.
 - 1. Ceramic frit border in RAL color (architect to specify) covers area with structural glazing
- C. Aluminum cleat/shoe: (Architect to specify)
 - 1. Profile: CARVART glassRAILINGS > Plan with single cleat, extended, double or top/bottom attachments.
 - a. Side mounted with cleat anchoring directly to adjacent structural assembly
 - b. Top mounted with supporting buttress that can be anchored to structural horizontal surface
 - 2. Finish: (Architect to specify.)
 - a. Alum Cladding: Can be finish in any RAL powder coated solid color
- D. Curved glass:
 - 1. Nominal ¾" and 1" laminated glass requires minimum radius of 47" radius
- E. Top Cap: (Architect to specify)
 - 1. Metal top cap
 - 2. Fused glass top cap
 - 3. Frameless/polished top edge

PART 3 INSTALLATION

3.1

- A. Install handrails in accordance with manufacturer's recommended installation instructions and approved shop drawings.

3.2 CLEANING

- A. Clean glazing surfaces after installation, complying with requirements contained in the manufacturer's instructions. Remove excess glazing sealant compounds, dirt or other substances.
- B. Remove protective films from metal surfaces.
- C. Clean railing surfaces with clean water and mild detergent. Do not use abrasive chemicals, detergents, or other implements that may mar or gouge the material.

3.3 PROTECTION

- A. Institute protective measures required throughout the remainder of the construction period to ensure that all the materials do not incur any damage or deterioration.
- B. Repair components damaged by subsequent construction activities in accordance with manufacturer's recommendations; replace damaged components that cannot be repaired to Architect's acceptance.

END OF SECTION