



NEWMAN BROTHERS INC.

FAMILY OWNED AND OPERATED SINCE 1882

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Product Guide Specification

Note to Specifier: *This specification guide is written in accordance with customary industry standards as they apply to factory fabricated ornamental hand and guardrails systems incorporating tempered glass balustrades.*

The following must be carefully reviewed and edited by the user to meet the indigenous requirements of the project and local building code requirements. Coordinate this section with other specification sections as well as the architectural and structural drawings.

Delete all italicized references to "Specifier" when editing this section for your specific project.

SECTION 05720

ORNAMENTAL GLAZED RAILING SYSTEM

Specifier: *This section covers Newman Brothers, Inc. pre-engineered, component-based, ornamental glass railing systems. Consult Newman Brothers, Inc. for assistance in editing this section for the specific application. Ph.800-447-1072*

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Pre-engineered, component-based, ornamental glass railing system.

1.2 RELATED SECTIONS

Specifier: Edit the following list of related sections as required for your project. List other sections with work directly related to this section as well.

- A. Section 05510 - Metal Stairs.
- B. Section 05520 - Pipe and Tube Railings.
- C. Section 05710 - Ornamental Metal Stairs.
- D. Section 06200 – Finish Carpentry
- E. Section 08800 – Glazing

1.3 REFERENCES

Specifier: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ANSI Z97.1 - Safety Glazing Material Used in Buildings.
- B. ASTM E985 for railing related items apply to this section.

1.4 DESIGN REQUIREMENTS

Specifier: Edit the following paragraphs as required for the specific application. Consult building code for minimum load requirements.

- A. Railing system shall be designed to conform to building code and ADA requirements for openings and stress.
- B. Railing system shall withstand a minimum [concentrated load of 200 pounds applied horizontally or vertically down at any point on top rail] [uniform load of 50 pounds per foot applied vertically down and horizontally, but not simultaneously on top rail].

1.5 SUBMITTALS

- A. Comply with Section 01330 - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including description of materials, components, fabrication, and finishes. Including all structural computations and test reports provided by the manufacturer evidencing compliance with the specifications.
- C. Shop Drawings: Submit manufacturer's shop drawings, including elevations, sections, and details, indicating materials, components, sizes, dimensions, tolerances, hardware, fasteners, finishes, options, accessories, and installation. Show details of attaching railing system to supports and structure.
- D. Samples: Submit manufacturer's samples of standard materials, finishes and colors.
- E. Manufacturer's Quality Assurance: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application. Submit certification that the manufacturer has not less than 5 years experience producing the product specified in this section. Installation of this product will be performed by an approved installer.

- F. Maintenance Instructions: Submit manufacturer's maintenance and cleaning instructions.
- G. Warranty: Submit manufacturer's standard one year warranty.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials and finish from damage during handling and installation.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. Newman Brothers, Inc. (Econo-Rail) 5609 Center Hill Ave. Cincinnati, OH 45216. Phone (800) 447-1072. Fax (513) 242-0015. Web Site: www.newmanbrothers.com. eMail: ken@newmanbrothers.com .
- B. Basis of Design: Drawings and specifications have been prepared based on Newman Brothers, Inc. Econo-Rail System 2 structural glazed railing system. Substitutions must be made and approved not less than 4 weeks prior to the project bid and comply with (C) below. Failure to provide substitution request will result in rejection.
- C. Substitutions: Comply with Section 01630.
 - a. Submit the following with the substitution request.
 - 1. Detailed specifications of construction and fabrication
 - 2. Independent certified test reports indicating compliance with design and performance requirements specified in this section.
 - 3. Full size sample of railing post.
 - 4. 12 inch long sample of top railing.
 - 5. Sample of each type of fitting.

2.2 ORNAMENTAL RAILING SYSTEM

- A. Pre-Engineered, Component-Based, Ornamental Railing System: Econo-Rail System 2.
 - 1. Base: [GR350] (for 1/2" glass or 3/4" glass). 2-1/2 inches by 3-1/2 inches, extruded aluminum.
 - 2. Cap Rail: **See product data for rail cap designation choices.**

Specifier: A wide selection of metal and wood cap rails in many styles, sizes, and finishes are available. Consult Newman Brothers, Inc. for additional information and details.

- a. Material: _____ .
- b. Style No.: _____ .
- c. Size: _____ .
- d. Finish: _____ .

Specifier: Consult Newman Brothers for availability of other glass types.

3. Glass: [1/2-inch] [3/4-inch] thick [clear] [gray tint] [bronze tint] [_____] tempered plate glass.
 - a. Glazing Material: ANSI Z97.1 compliant.
 - b. One piece field glazed or two piece factory bonded glass panels, flat or bent horizontally tempered monolithic glass to be free of tong marks.

Specifier: The following are options for the Econo-Rail System² railing system. Delete options not required.

4. Side Mounted Auxiliary Handrail: 1-1/2-inch diameter, Type 304 stainless steel, bronze, extruded aluminum or wood handrail with auxiliary bracket.
 - a. Finish: _____ .
5. Finish:
 - a. Two part aliphatic polyester polyurethane, non metallic:
 - 1) Color: _____ .[Choose from manufacturers standards]
 - 2) Gloss: Semi or High.
 - b. Metal: Directional satin #4 or Polished #8.
 - c. Wood: Sanded, Stained or Final finish in field.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine areas to receive railing system. Notify Architect if areas or mounting surfaces are not acceptable. Do not begin installation until unacceptable conditions have been corrected.

3.2 INSTALLATION

- A. Install railing system in accordance with manufacturer's instructions using experienced installers.
- B. Install railing system plumb, level, square, true to line, and rigid.
- C. Attach railing system securely in place using fasteners and compounds supplied or approved by manufacturer. All embedded anchor plates / imbeds and supporting steel shall be provided by another trade and coordinated with the railing supplier.
- D. Attach railing system to supports approved by project engineer.
- E. Do not field weld components.
- F. Use manufacturer's supplied hardware.
- G. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- H. Remove and replace defective or damaged components that cannot be successfully repaired as

determined by Architect.

3.3 CLEANING

- A. Clean railing system promptly after installation in accordance with manufacturer's instructions.
- B. Do not use harsh cleaning materials or methods that would damage glass or finish.
- C. Do not use abrasive cleaners.

3.4 PROTECTION

- A. Protect installed railing system and finish from damage during work by other construction trades.

END OF SECTION