



**SPEED-RAIL® RAILING SYSTEM**  
**with METAL OR GLASS INFILL PANELS**  
**PRODUCT DATA SHEET**

**GENERAL**

Speed-Rail® is designed for various types of metal infill panels, as well as glass infill, and is used in all railing applications that must comply with IBC codes for structural strength and dimensions.

**OVERALL DIMENSIONS:**

Height of top rail above walking surface: 42".

Post spacing: Determined by site conditions.

Mounting: Determined by site conditions.



**MATERIALS:**

**Posts:** Aluminum 6005-T5, 1 ½" IPS (48.2 mm O.D.) Schedule 80 Wall (clear anodized)

**Rails:** Aluminum 6063-T6, 1 ½" IPS (48.2 mm O.D.) Schedule 40 Wall (clear anodized)

**Fittings:** Aluminum 6063-T6 (clear anodized)

**Base Flanges:** Cast Aluminum

**Fasteners:** Stainless Steel 304 Alloy



**CODE COMPLIANCE:**

U.S. International Building Code 2009/2012/2015/2018 standards specific to guardrails, handrails and infill panel materials including glass.

**PERFORMANCE REQUIREMENTS:**

All railings shall be supplied to conform to applicable sections of the following codes:

- International Building Code
- ADAAG

**STRUCTURAL PERFORMANCE:**

Provide railings capable of withstanding the effects of gravity and the following loads and stresses within limits and under conditions indicated:

Top Rails of Guards:

- Uniform load of 50 lb/ft. applied in any direction.
- Concentrated load of 200 lb/ft. applied in any direction.
- Uniform and concentrated loads need not be assumed to act concurrently.

Infill Area of Guards:

- Horizontal concentrated load of 50 lbf. applied to 1 sq. ft. at any point in system, including panels, intermediate rails, balusters, or other elements composing infill area. Load on infill area need not be assumed to act concurrently with loads on top rails.
  - ◆ For states on IBC 2009/2012:
    - \* Tempered Glass: ASTM C1048, Fully Tempered, Condition A, Type 1 (Transparent Flat Glass), Quality Q3. Products shall comply with properties indicated for class, thickness, and manufacturing process that have been tested for surface and edge compression according to ASTM C1048 and for impact strength according to 16 CFR 1201 for Category 2 materials.
    - \* Glass infill panel to be 3/8" thickness with maximum spacing between posts to be 4 ft.
    - \* Glass to be monolithic or laminated tempered.
  - ◆ For states on IBC 2015 /2018(Laminated glass is required):
    - \* Tempered Glass: ASTM C1048, Fully Tempered, Condition A, Type 1 (Transparent Flat Glass), Quality Q3. Products shall comply with properties indicated for class, thickness, and manufacturing process that have been tested for surface and edge compression according to ASTM C1048 and for impact strength according to 16 CFR 1201 for Category 2 materials.
    - \* Glass infill panel to be 7/16" thickness, laminated/tempered with maximum spacing between posts to be 4 ft.
    - \* Glass to be laminated tempered.
  - ◆ Resin panels to be acrylic 3/8" thickness, from Lumicor® or other architect approved vendor.
  - ◆ Metal infill panels to be per specification.

Handrails:

- Uniform load of 50 lb/ft. applied in any direction.
- Concentrated load of 200 lb/ft. applied in any direction.
- Uniform and concentrated loads need not be assumed to act concurrently.



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