



## VISION STAINLESS STEEL RAILING PRODUCT DATA SHEET

### GENERAL

VISION stainless steel railing is designed for glass, resin, or metal infill panels, 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:** 304 SS 1.9" OD, .120" Wall Thickness, #4 Polished Finish

**Rails:** 304 SS 1.9" OD, .080" Wall Thickness, #4 Polished Finish

**Fittings:** 304 SS

**Base Flanges:** Internal Steel, Cover Plate 304 SS, Top or Side Mount.

**Fasteners:** Stainless Steel 304 Alloy Optional: 316 SS

### CODE COMPLIANCE:

U.S. International Building Code 2009/2012/2015 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 loads and the following loads and stresses within limits and under conditions indicated:

- Handrails:
  - Uniform load of 50 lbf/ft. applied in any direction.
  - Concentrated load of 200 lbf. applied in any direction.
  - Uniform and concentrated loads need not be assumed to act concurrently.
- Top Rails of Guards:
  - Uniform load of 50 lbf/ft. applied in any direction.
  - Concentrated load of 200 lbf. 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.
    - > 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.
    - > Resin panels to be acrylic 3/8" thickness, from Lumicor or other architect approved vendor.

