



VISION™ ALUMINUM & STAINLESS STEEL

PRODUCT DATA SHEET

GENERAL

Hollaender's® VISION railing system 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. It is designed so that the glass or metal infill is "in line" with the center line of the posts. Available in either stainless steel (304 or 316) or anodized aluminum. Both versions are available as non-welded mechanical systems only. No. 4 polish is standard for stainless steel with other polishes available.

OVERALL DIMENSIONS:

Height of top rail above walking surface: 42".

Post spacing: Determined by site conditions.

Mounting: Determined by site conditions.



MATERIALS:

Stainless Steel

Posts: 304 or 316 SS, 1 ½" IPS (48.2 mm O.D.) .120" Wall

Rails: 304 or 316 SS, 1 ½" IPS (48.2 mm O.D.) .080" Wall

Fittings: 304 or 316 Stainless Steel

Base Flanges: Internal Flange Steel with 304 or 316 SS Cover Plate

Fasteners: Stainless Steel 304 Alloy

Aluminum

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 2012/2015/2018/2021/2024 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/lf. 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 2015:
 - * 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 2015/2018/2021/2024 (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 3/16" lite, .060" lamination, 3/16" lite for a total thickness of 7/16" 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.

Handrails:

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

