



INTERNA-RAIL[®] RAILING SYSTEM WITH METAL INFILL PANELS

PRODUCT DATA SHEET

GENERAL

Interna-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 standards specific to guardrails, handrails and infill panel materials.

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.
 - ›› Metal infill panels to be per specification..

PRODUCT TEST REPORTS:

Available upon request.

PROJECT INSTALLATIONS:

- Chorley School (Middleton, NY) – aluminum mesh infill
- Momentum Audi (Houston, TX) – steel mesh and picket infill
- Boise State Football Stadium (Boise, ID) – steel mesh infill
- Maple Dale Elementary School (Cincinnati, OH) – steel mesh
- Saucon Valley Schools (Easton, PA) – 304 stainless steel mesh
- Several high school baseball and football stadiums in New Orleans, LA – steel mesh infill

