

# Aluminum Handrail

## Product Spec Sheet



Flexible enough for any application and perfect for offices, decks and porches. Our design team works closely with customers to ensure their handrail is exactly what they envision for their project.

### Product Details:

#### Pipe

Aluminum 6063 T6  
1 1/2" Schedule 40.

#### Installation

Plate Mounted

#### Finish

Clear Anodized Aluminum and Powder Coating  
Available

#### Internal Rail Fittings

Aluminum 6063 T6 Fittings  
Stainless Steel Fasteners



## 2.6 HAND RAIL SYSTEM

- A. Structural Performance of Handrails and Railings: Provide handrails and railings capable of withstanding the following structural loads based on 2000 international building code, without exceeding allowable design working stresses of materials for handrails, railings anchors, and connections:
1. Top Rail of Guards and hand rails: Capable of withstanding the following loads as indicated:
    - a. Concentrated load of 200 lbf (890 N) applied at any point and in any direction.
    - b. Uniform load of 50 lbf/ft: (730 N/m) applied in any direction at the top and to transfer this load through the supports to the structure.
    - c. Concentrated and uniform loads above need not be assumed to act concurrently.
  2. Intermediate rails, balusters and filler panels: Capable of withstanding the following loads applied as indicated:
    - a. Applied normal load of 50 pounds (0.22kn) on an area not to exceed 1 square foot including openings and space between rails.
    - b. Reactions due to this loading are not required to be superimposed with the proceeding section.
- B. Provide handrail system complying with the following requirements:
2. Sleek system with internal connectors.
    - a. Rails and Posts
      - 1) Extruded Aluminum Pipe ASTM B429, Aluminum alloy 6061-T6. Finish AA M10C22A41. Posts – 1 ½ inch IPS Schedule 80. Rails – 1 ½ inch IPS Schedule 40
    - c. Flanges
      - 1) Sand cast from high tensile aluminum-magnesium

alloy 535.0

- 2) Supplied with anodize finish.7mil minimum thickness.
- 3) Design – Fittings shall be the type, which fastens directly to the pipe by means of and internal/external, reverse knurl, cup point, hexagon socket set screw.
- 4) All anchoring hardware shall be 300 series stainless steel.
- 5) Flanged that include a bearing plate will not be accepted.

d. Fasteners

- 1) All fasteners to be 302 or 304 stainless steel.
- 2) No pop rivets of sheet metal screws will be accepted.

C. Infill material

1. Pickets:  $\frac{3}{4}$ " aluminum rod

D. Finish

1. Aluminum: Anodized