### **Railing Systems**



#### Brass and Stainless Steel Fittings, Tubing, and Extrusions



## Railing Systems | Overview

#### **Railing Components:**

- Tubing
- Connectors
- Brackets
- Flanges
- End Treatments
- Glass Clips

#### The Building Blocks of Railing Systems



### Railing Components | Materials & Finishes

#### Solid Brass

Polished Finish

 Stainless Steel (304 & 316 Alloy)
 Polished Finish
 Satin Finish





# Railing Components | Tubing

#### Standard Sizes:

1" Round Tubing
1-1/2" Round Tubing
2" Round Tubing
2" Square Tubing



Wall thickness: .050" – 1", 1.5", and 2" OD .060" – 1.5" and 2" OD .080" – 1.67" OD .120" – 2" Square Tubing



# Railing Components | Tubing

#### Tubing Splice

Available for 1" - 2" (.050") tubing

Use with Lido Weld<sup>®</sup>

#### Steel Sleeve

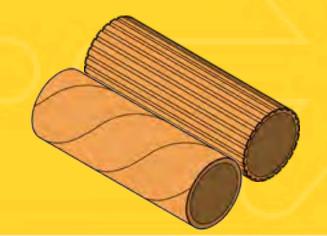
Use for reinforcing tube for superior strength

Wall thickness makes it possible for sleeve to be threaded

#### Reeded & Spirated Solid Brass Tubing

● Available in 1", 1-1/2", and 2" diameters

Use where decorative tubing is desired





## Railing Components | Extrusions

#### Handrail Cap Rail and Extrusions

Sold directly to professional installers
Entire product line of handrail components



## Railing Components | Brackets

- O Attaches railing to wall or floor
- O Most brackets are female-type or Saddle-type
- Designed to fit many applications

Saddle Post

Includes all mounting screws



Handrail Bracket

**Combination Bracket** 



Flush Center Post

### Railing Components | Connectors

#### Two basic types of connectors:



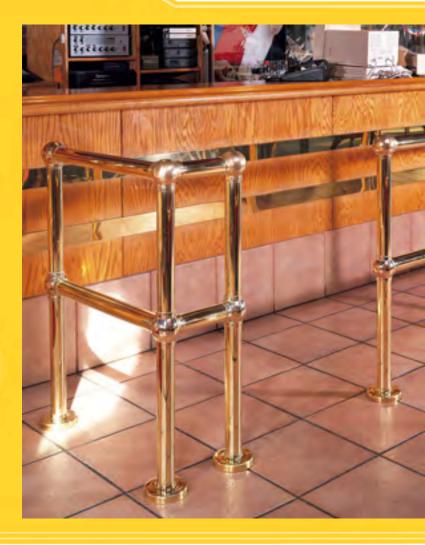


#### Flush fitting (male-type connector)



# Railing Components | Connectors

Ball Fitting (female-type connector) Easy to build Can use tubing that has an uneven end cut No need for precise tubing measurement Can use tubing with any wall thickness Angle Collars allow tubing to be attached at any angle





# Railing Components | Connectors

Flush Fitting (male-type connector) Contemporary Look Requires square end cut and precisely measured tube ● 1" connecting area vs. competitors 1/2" to 3/4" Perpendicular Collars allow tubing to be attached at any angle





### Railing Components | Modular Handrails

Presents a consistent appearance throughout entire project

Create a variety of handrail and short rail systems using a modular approach







# Railing Components | Flanges

# Flanges have 2 critical measurements:

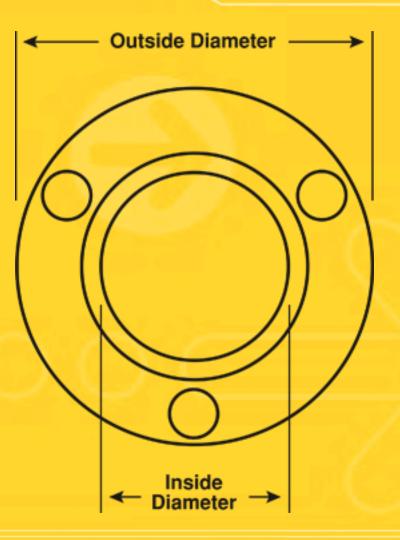
#### Outside Diameter

 Determines how much "real estate" flange covers

#### Inside Diameter

Determines what size tubing must be used

Includes all mounting screws





# Railing Components | Flanges

#### Round Flange

 Larger outer diameter provides greater structural strength

#### Cut Flange

Use in applications where surface space is limited such as Short Rail installations

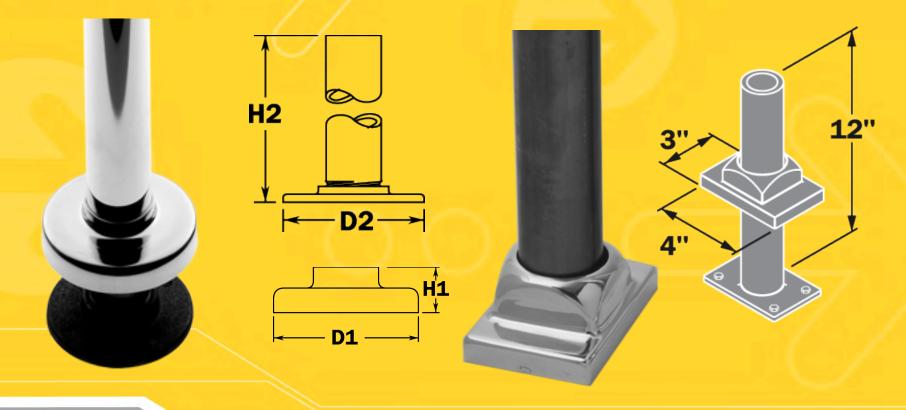




## Railing Components | Flanges

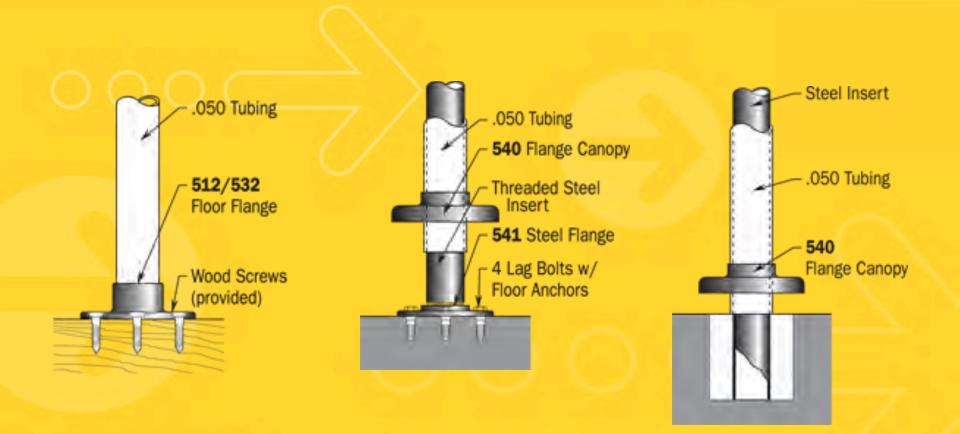
#### Flange and Canopy

- Used for heavy-duty applications
- Steel flange or plate is bolted to surface and then covered with outer canopy





### Railing Components | Mounting Solutions





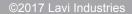
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## Railing Components | End Treatments

A decorative and functional finishing touch for any railing system (male-type connector)

- Flush End Caps
- Ball Finials
- Decorative Scrolls
- Sector Wall Returns





## Railing Components | Glass Clips

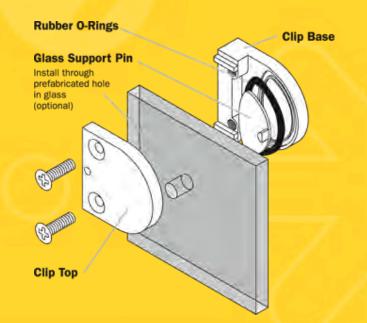
- Used to hold plates of glass, Plexi, etc. between posts
- Perfect for all Guard Rail and Booth Divider applications
- Two important considerations when choosing a glass clip:

#### Surface Attachment

- Curved back allows clip to be attached to tubing
- Flat back allows clip to be attached to a wall

#### Panel Grip

 Available in sizes to accommodate a panel thickness of 1/4", 3/8", 1/2", and adjustable





### **Railing Systems** | Installations

# What can I build?

- Handrails
- Footrails
- Guard Rails
- Booth Dividers
- Almost Anything!



## **Railing Systems** | Handrail Application

#### **Components:**

- Tubing
- Second Brackets
  - Curved (for metal tubing)
  - Flat (for wood rods)

#### Connector

Has to be flush fitting

#### End Treatments

- Scroll Finial (606)
- Wall Return (608)



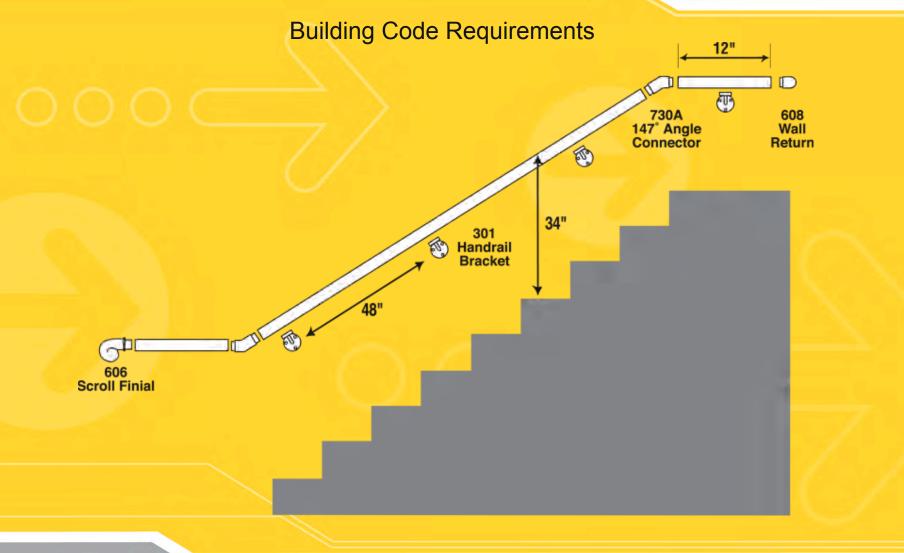


### **Railing Systems** | Handrail Application





#### **Railing Systems** | Handrail Application





## **Railing Systems** | Short Rail Application

Designed to project a short distance from the mounting surface

Typical installations include:

- Handrails
- Door Pulls
- Café Curtain Rods
- Chair Guard Rails





#### **Railing Systems** | Short Rail Application





### **Railing Systems** Arm Rail & Footrail Application

#### **Components: Tubing** € ● 1" - 3" diameter **Brackets** € Numerous designs $\bigcirc$ Connector Ð Flush fitting

- **Ball fitting** Ð
- Angles (90°, 135°) €

#### **Flanges** €

To connect to wall or floor

#### **End Treatments** €

- **Ball Finials** 6
- Ð End Caps





### Railing Systems | Arm Rail & Footrail Application







### Railing Systems | Pre-Fabricated Rail

Pre-fabricated for easier installation
 Factory welded to provide greater strength





### Railing Systems | Guard Rail & Stair Rail

#### **Components:** Tubing Ð 1-1/2" and 2" diameter Use pre-fabricated posts or . . . Connector Ð Flush fitting Ð Ball fitting $\mathbf{ }$ **Glass** Clips **Flanges** € To connect to wall or floor

#### End Treatments

- Ball Finials
- End Caps





### Railing Systems | Booth Divider Posts

Factory assembled to save time and labor

Designed to hold 1/4" thick panels of glass or other material

Two types of panel attachment:

- Glass Clips
  - Curved back for panel to post connection
  - Flat back for panel to wall connection
- Channels
  - Curved back for panel to post connection
  - Flat back for panel to wall connection





#### Railing Systems | Booth Divider Posts





### Railing Systems | Thank You

#### The End

