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## Thermoplastic Railing Installation & Layout Guide

Prior to beginning the installation of Advanced Products Railings on an existing slab, deck or stair, please take a moment to review this guide. These general rules will assist you with the installation and provide you with the most attractive finished railing project.

### Before Installation or Layout

- Review the **Packing List** and **Shop Drawings** to become familiar with the project.
- Locate all railing sections and loose parts. Please notify Advanced Products immediately should it appear as if an item is missing or incorrect. We can be reached during normal business hours at (732) 286-9496.
- Load the railings onto the decks or areas to which they will be installed.

### How to Layout

- Review the Shop Drawings noting the locations of the railing ends and corners as well as any other critical post locations. Unless noted to the contrary, the dimensions on the drawings are the centerline of the railing and posts.
- Locate and mark these locations on the mounting surface. Snap a chalk line between corners and ends. You have now determined the railing center.
- Layout intermediate post locations only when:
  - Flange mounting is done and blocking needs to be added prior to installation. 2 x 8 or greater blocking is recommended when the fasteners are unable to connect to the deck joists. Simply securing the fasteners to the decking is not sufficient enough for a rigid installation and is not recommended.
  - Core Mounting, locate and mark all post location and drill holes in accordance with the size minimums as shown on the Shop Drawings or as the project demands.

### How to Install

- Stand the railing in position and align adjoining railing sections (Fig. A)
- Pull sections together using ratcheted come-along straps (Fig. B), wrapped around the adjoining posts. **DO NOT OVERTIGHTEN.** The railing ends should sit flush against the post for Classic Series or should slide into collars for Original Series until first resistance is felt. Use a clear plastic/Urethane hammer to assist with obtaining flush joints. Check the railing for plumb and level.

FIG. "A"

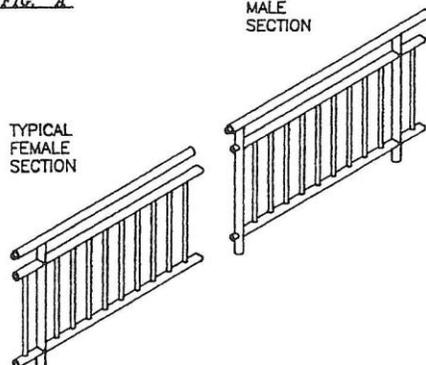
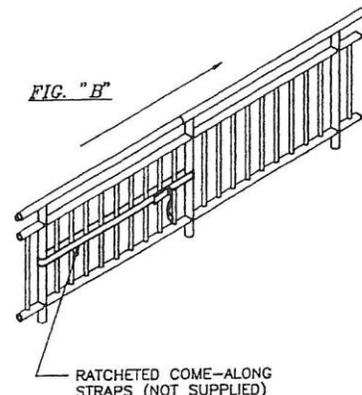
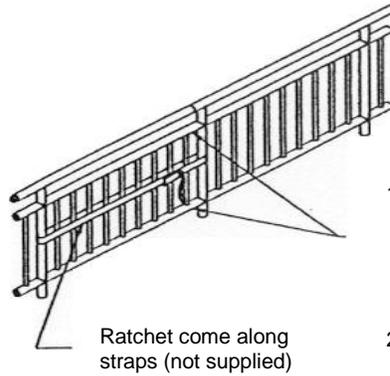


FIG. "B"



## Section Connection:

- Remove come along straps and repeat process as required on additional railing sections.



- Drill hole using #29 or 9/64" bit at these locations only (Note: No pin required at top horizontal railing member location.) Hole should be within 1" of post and as close to the underside of the railing as possible.
- Screw in screw pin (supplied by AVCON) with 5/64" long arm Allen wrench so the head is slightly below the railings surface.
- Cap hole with color coated or clear silicone or caulk.

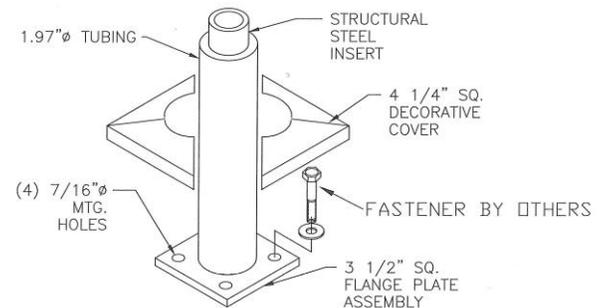
## Final Clean-up

- After all railing has been installed, wipe down to remove any grime that has gotten on the railing during installation. For any tough areas, warm water, a sponge and Soft Scrub should be the trick. Do not use any abrasive cleaners or bleaches, they will dull or damage the surface finish.

## Installation of Mounts

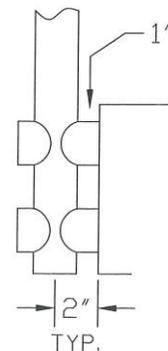
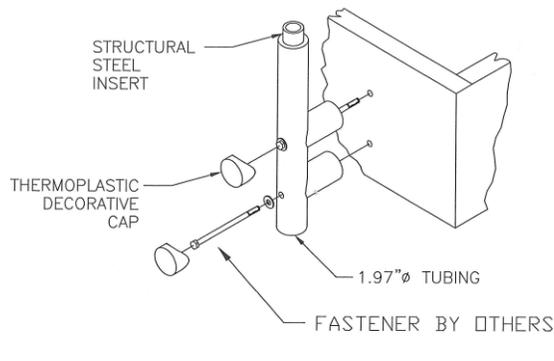
### Flange Mount:

- Secure the Flange Plate to the surface and cover with escutcheon. Optional, silicone/caulk the cover to the surface and post.



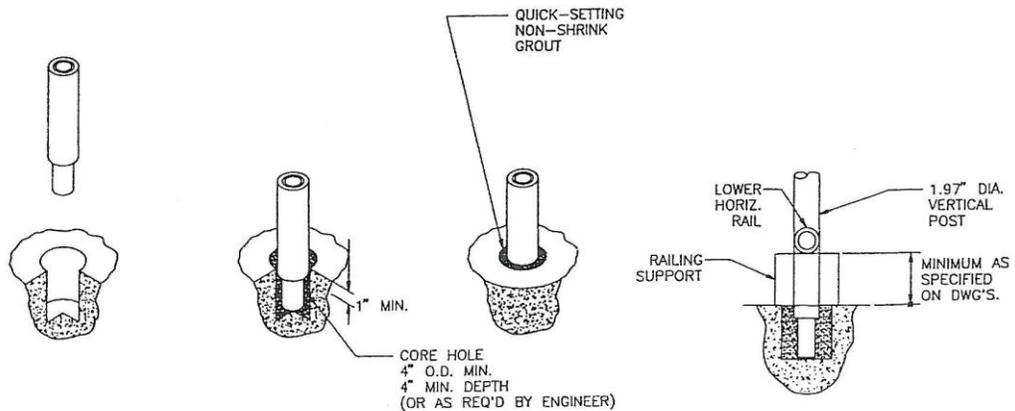
### Fascia Mount:

- Support railing to obtain required height and secure to band joist or stair stringer.



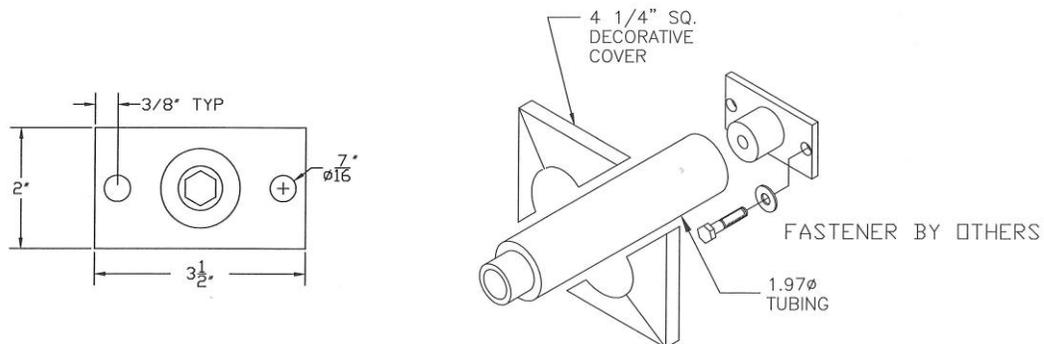
### Core Mount:

- Level railing using wood blocking, shims or other means of support and pour grout in hole, carefully following the grout manufacturers written instructions. Clear excess grout off railing and from around hole.



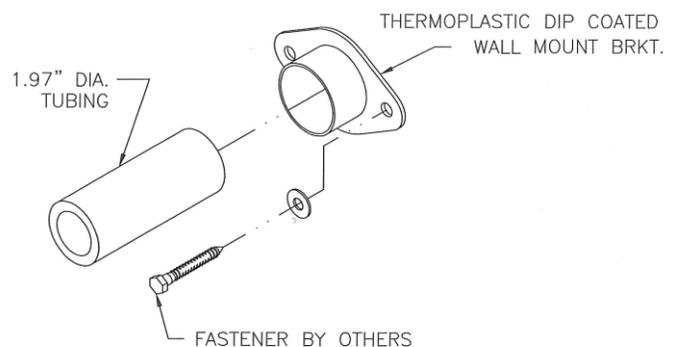
### Wall Mount Bracket:

- Place Wall Mount Brackets on end of rails. Stand railing in place, plumb and level railing and secure bracket to wall. Prep for and insert Stainless Steel Locking Pin and cover with Escutcheon.



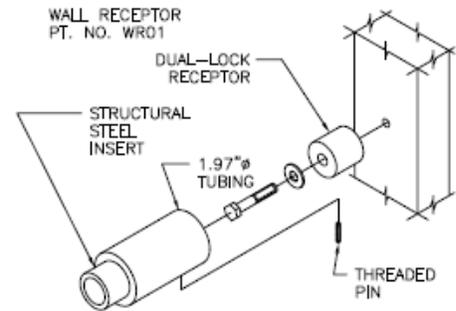
### Wall Mount Cup:

- Place Wall Cup on the end of railing. Stand railing in place, then level and plumb railing, secure wall cup to wall.



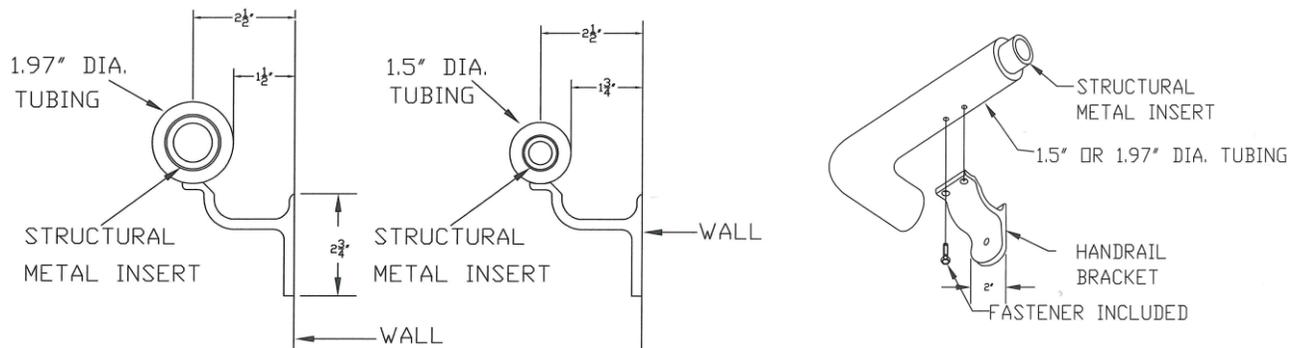
## Wall Receptor:

- Locate on wall and mount Wall Receptor using a single fastener, provided by others. Slide railing over receptor and secure with stainless steel locking pin. Mount decorative cover, optional.



## Handrail Bracket – Wall Mount:

- Locate height and location of brackets and secure to wall, anchoring into a stud or solid blocking. Lay railing atop of brackets, rotating as required, then clamp to brackets. Secure railing to brackets using stainless steel drill point screws supplied by Advanced Products. Remove claps.



## Handrail Bracket – Post Mount:

- Locate height and location of brackets and secure to post. Lay railing atop of brackets, rotating as required, then clamp to brackets. Secure railing to brackets using stainless steel drill point screws supplied by Advanced Products. Remove claps.

