Part # 1D Top Rail
(2 1/2" x 1 1/2")

Part # 1B Mid Rail
(1 7/8" x 1 1/2")

Part # 1B Mid Rail
(1 7/8" x 1 1/2")

Part # 3B Picket
(5/16" x 3/4")
3C Similar (5/16" OD)

Part # 4G Post
(2" x 2")**

Post Mounted Handrail
(Where Occurs)
(Size TBD)

Part # 2C Bottom Rail
(1 1/2" x 1 1/2")

** Note: Part # 4G is the typical post. However, other sizes are available. Please refer to our brochure for available posts. Also, custom shapes can be designed to meet any special need.

The components and connection techniques shown herein are provided solely for use in incorporating "Aluminum Tube Railings" by ATR Technologies, Inc. into the overall project design and are the proprietary intellectual property of ATR Technologies, Inc. All rights reserved.
**STYLE 5A EMBEDDED MOUNT**
- Railing Post
- Embed post protected with catalyzed polyurethane
- Top of finished concrete slab
- Poured or core drilled post hole
- Non metallic Non shrink grout
- Post Width + 1" Min.
- 2 1/2"

**STYLE 5C SIDE MOUNT TO CONCRETE**
- Railing Post
- Top of finished concrete slab
- Side mount angle size per engineering requirements
- Thru bolt size per engineering requirements
- Concrete anchor size and type per engineering requirements
- Post end cap (optional)
- Optional for post and cap to be flush with mount angle

**STYLE 5B BASEPLATE MOUNT TO CONCRETE**
- Railing Post
- Baseplate size and thickness per engineering requirements
- Top of finished concrete slab
- Concrete anchor size and type per engineering requirements
- Min. edge distance per engineering requirements

**STYLE 5C SIDE MOUNT TO WOOD**
- Railing Post
- Top of finished wood deck
- Side mount angle size per engineering requirements
- Thru bolt size per engineering requirements
- Leg screw size and type per engineering requirements
- Post end cap (optional)
- Optional for post and cap to be flush with mount angle

**STYLE 5B BASEPLATE MOUNT TO WOOD**
- Railing Post
- Baseplate size and thickness per engineering requirements
- Top of finished wood deck
- Leg screw size and type per engineering requirements
- Min. edge distance per engineering requirements

**STYLE 5K WALL MOUNT HANDRAIL**
- Anchor device type and size per engineering requirements
Top Rails

1-E 4" H 2 1/2" W
1-R 6" H 2 1/2" W
1-U 4" H 2" W
1-N 4" H 1 3/4" W

1" Ø 1-J 1 1/2" H
1" Ø 1-K 2 1/2" H
1" Ø 1-L 3 1/2" H
1" Ø 1-M 3 3/4" H

1 1/16" W 1-B 1 1/2" H
1 1/16" W 1-D 1 1/2" H
1 1/16" W 1-P 1 1/2" H

Top Rail Closures

1/2" Panel Rail Closure

1/8" & 3/16" Panel Rail Closure
Standard Closure
Optional full round closure
(1-J, 1-K, 1-L & 1-M only)

Pickets
For 3/4" Systems

3/4" W 3-A 1/2" H
3/4" W 3-B 1/2" H
3/4" Ø 3-C 1/2" H
1 1/4" W 3-D 1/2" H
1 1/4" Ø 3-H 1/2" H

Pickets
For 1 1/4" Systems

1 1/4" W 3-A 1/2" H
1 1/4" W 3-F 1/2" H
1 1/4" Ø 74 1/2" H

Custom shapes can be designed to meet any special need

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Sheet 1 of 2
Revisions

Optional Top Rails & Pickets

Design Drawn / IRH Checkered

Scale: NONE
Job No.: NONE
Date: 06/07/2010