Secondary Handrail Guidelines and Installation

Items You Will Need

- Pencil
- Tape Measure
- Level
- #2 Square Drive Bit
- Drill
- Chop/Miter Saw
- Quick Clamps
- PVC Cleaner

Components:
1. ABA Handrail w/Aluminum Insert
2. 6" Straight Joiner
3. 4" Inside/Outside Corner
4. Straight End Wall Bracket
5. Inside Corner Bracket
6. End Cap
7. P-Loop Return
8. 6" Adjustable Joiner
9. 90° Quick Return Bracket
10. External Swivel
11. Stand Off Bracket
12. 5°, 32°, or 38° Radius Bend

Prior to construction, check with your local regulatory agency for special code requirements in your area.

Start with an Inside Corner piece when applicable.

Guidelines:
- The height of the secondary handrail must be installed between 34" and 38" above the surface, regardless of the height of the guard.
- We recommend that handrails be dry fit prior to final installation to eliminate cutting and fastening errors.
- IMPORTANT: The secondary handrail must be attached to a structural support. When installing mounting brackets on post sleeves, ensure the hardware attaches to the structural support.
- For maximum strength, brackets should be used at every post and every joint, or as closely as possible to the joint.
- An adhesive may be applied to further reinforce construction.
- Handrails must be supported every 6’ on-center by a mounting bracket.

Aluminum Offset Bracket (Line Post Mounting Bracket)

Step 1: Measure 2-1/2” less than the handrail height to determine bracket position. Mark surface.

Step 2: Align the top of the bracket mounting plate with the mark made in Step 1. Drill 5/32” pilot holes and attach to the desired surface using the 2-1/4” screws provided.

Step 3: Clamp handrail to bracket at appropriate location to secure in place.

Step 4: Drill 5/32” pilot holes and attach handrail using the 1” screws provided.

Handrail with Aluminum Insert

Step 1: Dry fit handrails to determine proper lengths prior to cutting rails.

Step 2: Measure and cut rails to proper lengths for all runs.

Step 3: Install to handrail component, following instructions for the components.

External Swivel

Step 1: Adjust external swivel to desired angle and install set screw.

Step 2: Cut handrail with aluminum insert to desired length.

Step 3: Insert external swivel bracket into the aluminum portion of the handrail.

Step 4: Pre-drill handrail and bracket with 5/32” drill bit and install 1” screw provided.
**Aluminum Joiner Kit**

**Step 1:** Use aluminum joiner to fasten handrail components at straight joints.
**Step 2:** Slide joiner an equal distance into both components. Drill 5/32" pilot holes and fasten using 1" screws provided.
**Note:** All joiners should be supported by an aluminum bracket as closely as possible to the joint.

**Step 1:** Measure the angle needed. Adjoin the two joiner halves together by inserting the bolt. Place the joiner halves at the desired angle, and tighten bolt to set.
**Step 2:** Cut handrails at ½ the desired angle. Slide handrails onto adjustable joiner.
**Step 3:** Drill 5/32" pilot holes and fasten handrails together using 1" screws.

**90° Post Return**

**Step 1:** Slide 90° post return into handrail.
**Step 2:** Drill 5/32" pilot holes into the desired surface and attach post return using 1-1/2" screws provided.
**Step 3:** Drill 5/32" pilot holes into handrail and attach using 1" screws provided.

**Straight Aluminum Wall Mount**

**Step 1:** Slide aluminum wall mount into handrail.
**Step 2:** Drill 5/32" pilot holes into desired surface and attach wall mount using 2-1/4" screws provided.
**Step 3:** Drill 5/32" pilot holes into handrail and attach using 1" screws provided.

**P-Loop Return**

**Step 1:** Attach top bracket at desired location using appropriate connectors.
**Step 2:** Cut P-Loop to desired length.
**Step 3:** Connect P-Loop to secondary handrail tube using the appropriate joiners (Straight, Adjustable joiners or External swivel).
**Step 4:** Set P-Loop on top of bracket and pre drill with drill bit and install 1" screw provided.
**Step 5:** Install desired lower bracket.

This handrail configuration has been tested and meets the requirements of 2009 IRC.

Universal Consumer Products, Inc.
933 US Rt. 202
Greene, Maine
www.ufpi.com

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