



AMERICAN FLOOR PRODUCTS COMPANY, INC.

AFCO-USA

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INSTALLATION INSTRUCTIONS

Impact Protection Systems

HANDRAILS: THUNDERBIRD® (WG-2112)

- Step 1:** Determine top of handrail height and snap a chalk line 3-3/4" below for centerline of mounting hardware, see **fig. 1** (see CAD details on back for all figure references)
- Step 2:** Cut aluminum. All ends must be checked for squareness before assembly. See **fig. 2, 3** and **4** for adjustments to aluminum length at corners and wall returns.
Note: All cuts must be square and deburred
- Step 3:** Layout aluminum retainer "face up" and mark and drill bracket mounting hole location.
Mounting holes must be spaced:
- 32" on center, or less
 - 1-1/2" - 6" from end of retainer at returns and outside corners
 - A minimum of 3" from end of retainer at splices and butt joints
- Note: Use groove in retainer to locate centerline for drilling, see **fig. 5***
- Step 4:** Insert molded accessories into end of retainer, press firmly to insure molded part is seated squarely against the end of the retainer. Drill accessory mounting holes using the accessory as a template, see **fig. 6b**
- Step 5:** Locate and drill bracket mounting holes in wall construction using the aluminum retainer as a template (or by careful measurement). Choice of hardware will dictate hole diameter.
- Step 6:** Slide rubber impact cushion into retainer, see **fig. 7**
- Step 7:** Attach returns and outside corners to retainer insuring accessory is seated squarely while tightening. Fasten with 1/4" bolt, flat washer and nylon lok-nut provided.
Caution: Do not use a lock washer, use flat washers only. Always place a flat washer between nut and molded tab. Tighten to 10 ft-lbs maximum torque, see **fig. 6a**
- Step 8:** Mount assembly to wall with the appropriate hardware according to wall condition.
Suggested hardware:
Drywall: Toggler® brand toggle bolts
Masonry: Plastic Alligator® insert
- Step 9:** Refer to **fig. 9** for splicing of aluminum retainer on longer handrail lengths.
- Step 10:** Measure between accessories (corners and returns) and cut all three vinyl covers.
Note: All cuts must be square and deburred.
- Step 11:** Place accent strip in finger groove of rail, ID mark down, see **fig. 8**. Snap on upper vinyl handrail cover and then snap on the loweranyl bumper guard.

Specifications subject to change without notice.



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Installation Instructions: THUNDERBIRD[®] (WG-2112)

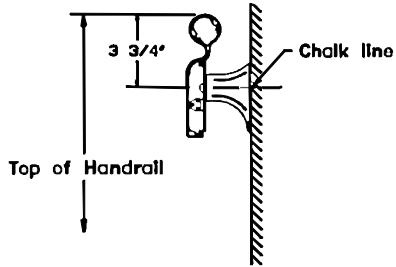


Fig 1

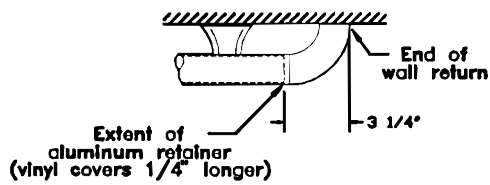


Fig 2

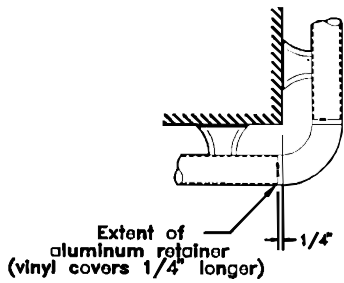


Fig 3

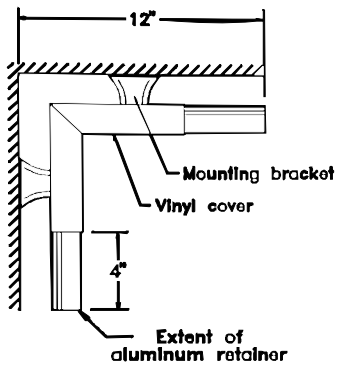


Fig 4

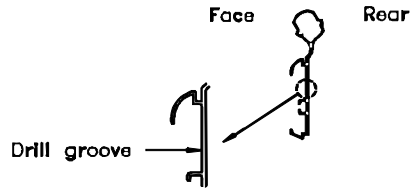


Fig 5

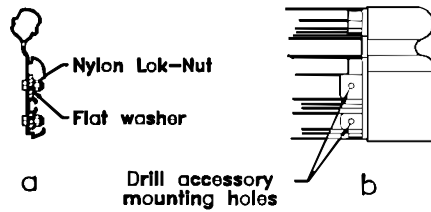


Fig 6

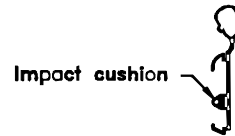


Fig 7

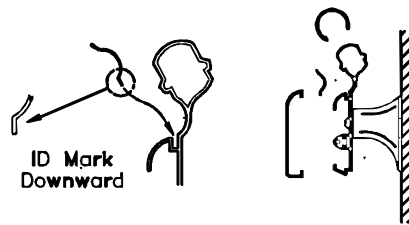


Fig 8

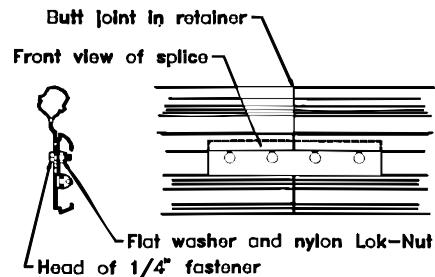


Fig 9