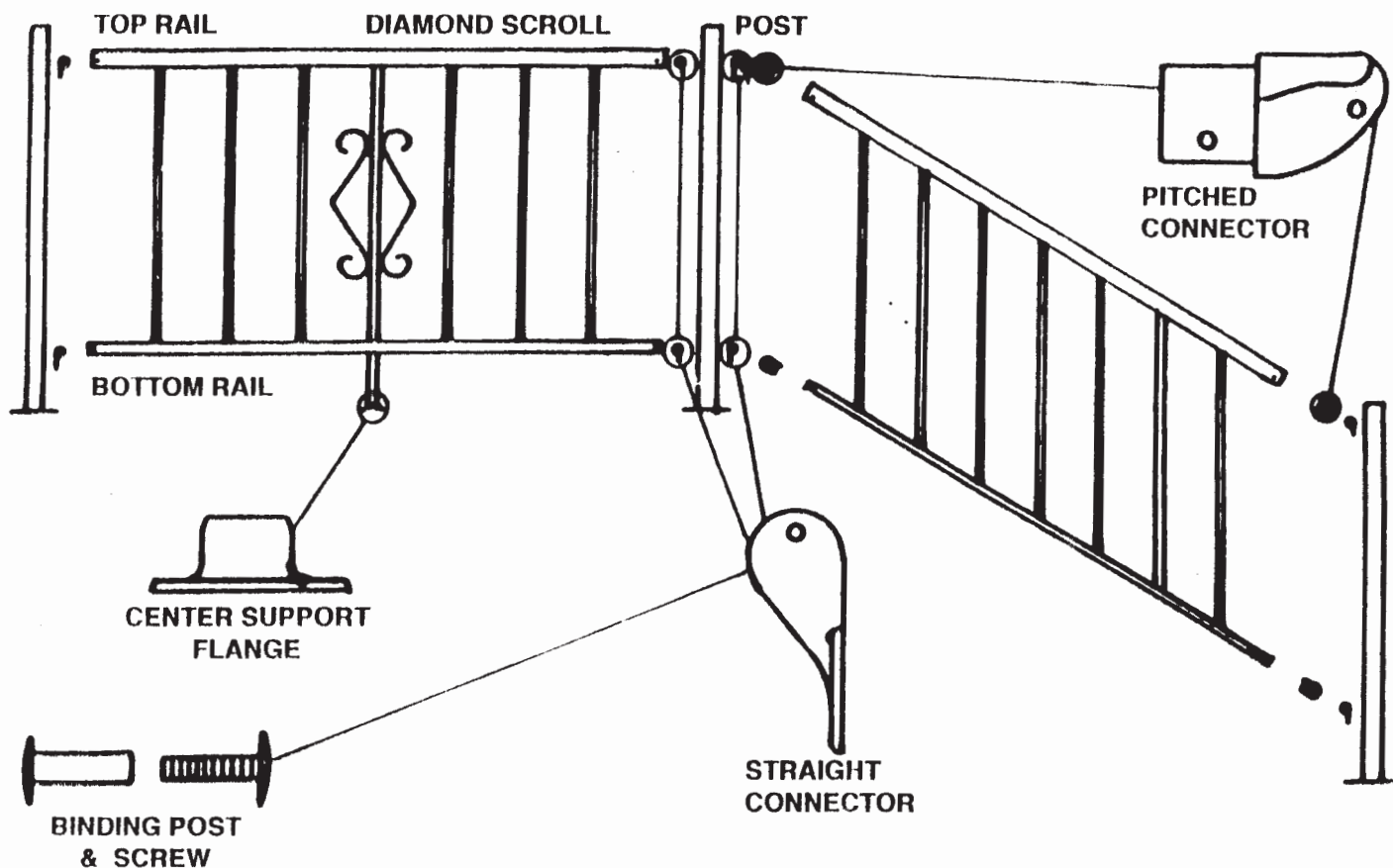
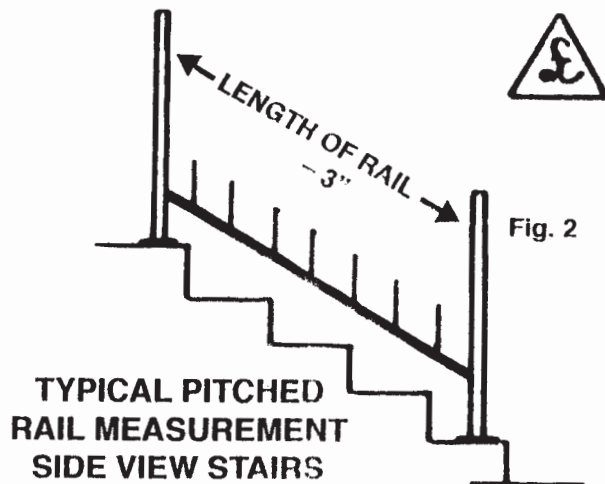
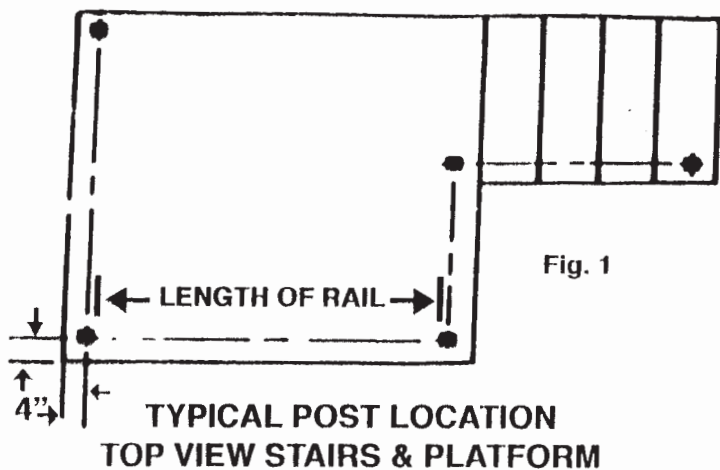


ADJUSTABLE ALUMINUM RAILING



TOOLS REQUIRED:

Phillips & Blade Type Screw Driver
Electric Drill
Hack Saw
7/32" No. 2 Drill
7/64" -- Drill

ADDITIONAL TOOLS FOR MASONRY STRUCTURES:

1/4" Masonry Bit
9/32" Masonry Bit

FASTENER FOR WOOD STRUCTURES: - 1/4" X 2" Lag Screw - 2 per post.

FASTENER FOR MASONRY STRUCTURES: - 1/4" Expansion Type Masonry Fastener - 2 per post.

ONE SET OF PITCHED OR STRAIGHT CONNECTORS PER SECTION OF RAIL.

ADJUSTABLE ALUMINUM RAIL:

ASSEMBLY

1. Locate posts on platform and steps as indicated in Figure 1. The center of each post should be 4" from edge of platform or step. Drill Newell post on underside of flange using indentations as guide. Use 1/4" bit. (at least two holes necessary)
2. Place posts on platform and steps.
3. Measure distance between posts or between wall and posts. This distance is the length of rail required to fit opening.
4. If necessary, cut top and bottom rails to length and drill 7/32" holes. (No. 2 drill), 1/2" from end of rail and 1/4" up from bottom rails.
5. For level rail, attach straight rail connectors to top and bottom rails with binding post and screw. (Furnished in connector package.)
6. Attach rails to post with two (2) No. 8 x 5/8" stainless steel self-tapping screws. (Furnished in connector package.) Top rail should be 2" below top of post. Holes in straight connector will serve as guides for drilling (4) four 7/64" holes. Posts can be used to join two or more sections together and to make right angle corners.
7. When railing section is used on steps as in Figure 2, measure distance between posts as in #3 and subtract 3". This is the length of rail required.
8. Cut rails to this length, if necessary, and drill 7/32" hole as in #4 and attach pitched rail connectors to rails with binding post and screw. Then attach rails to posts as in step #6.

NOW YOU ARE READY TO INSTALL RAILINGS TO STRUCTURE.

1. Set railings attached to posts in position. Mark platform, steps and wall for fastening holes, using in post mounting plates for guides
2. Railing is fastened to wall with a straight rail connector.
3. (a) Masonry base. (Zemac-Nalin) Drill 1/4" hole with masonry drill bit approximate 1-1/2" in depth. Insert Zemac-Nalin and anchor securely.
(b) Masonry base. (2" lag screw & Rawl Plug) Drill 9/32" hole with masonry drill bit approximate 2" in depth. Insert Rawl plug and anchor with 2" lag screws.
(c) Wood base. (2" lag screw) Drill 1/8" hole with drill bit and anchor with lag screw. (Note: if masonry or wood floor is uneven or slopes, use shim under flange.)
4. Long center spindle on 4 foot and longer rail sections is for additional support. This spindle may be set in a 3/4" hole in concrete or cut off even with surface and fastened to platform with center support flange.
5. Congratulations! You now have a strong, durable railing that will give you years of satisfactory service.



P.O. Box 336 • Penn, PA 15675 • Phone: (724) 527-2866