ADA Aluminum Handrail Components

Inline Bracket

"Poly" Mounting

Bracket Insert

Aluminum

Mounting

Bracket Insert

Straight

Connector

Preformed Bends

Custom bends are available.

Ask your dealer for details.



Aluminum Universa Connector 90° - 180°



90° Aluminum





"P" Loop Return



90° Outside Corner

90° Vinyl Post Return

(only for 2" system)

Straight Aluminum Special Aluminum Wall Bracket

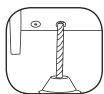
Gate Return

Outside Corner

Mounting Bracket

Finishing Connections

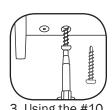
On bottom of railing use (2) screws on either side of a connector or (2) screws on a return.



1. For each screw drill a counter sink the depth of the vinyl using a 9/32" bit.



2. Drill a thru hole using a 5/32" bit. Do not rely on self drilling capabilities of the connector screws.



3. Using the #10 x 1" connector screw provided. fully seat into the counter sink.

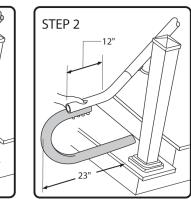
Determine the length to cut the handrail which is joined to the modified post return, by inserting the next piece of railing or elbow into the corner and laying it over the adjacent piece on the other side of the corner. This will establish a mark to cut the railing.

The post bracket must first be installed so that the piece inserted into the corner will lie on the bracket to establish a proper positioning.

Using a connector, join the corner with the railing cut in previous step and secure to the bracket as shown.

"P" LOOP INSTALLATION





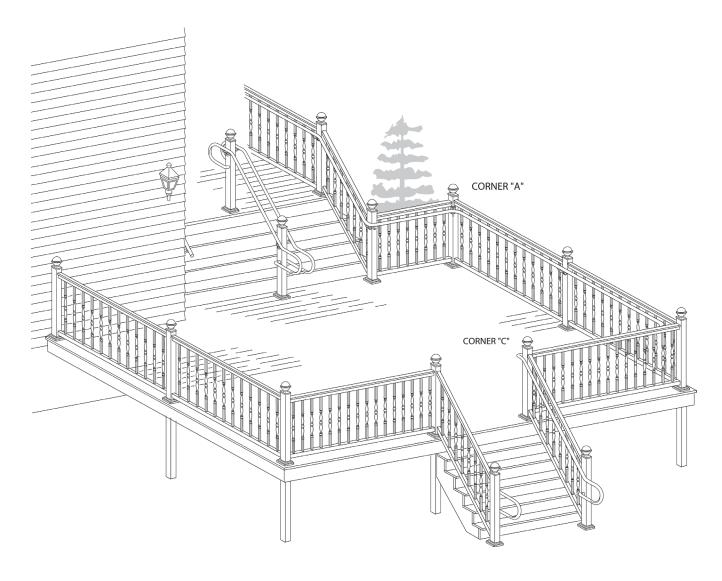
With corner now in place, determine the height of the in-line brackets on a step railing installation by holding a piece of railing in line with the elbow and parallel to the primary railing.

Typically, the ADA aluminum handrail will be below the level of the primary railing. Install in-line brackets with screws, putting brackets on every post. Continue until ground level post is reached. At this point railing will be terminated in one of a number of ways: either by end capping a straight rail, end capping an elbow, or by using the "P" loop return to meet certain municipal requirements (see options, above).



1½" ADA Aluminum Handrail **Installation Instructions**

The 1½" system complies with ADA Requirements. When properly installed this system exceeds current ICC test requirements.



Sketch a layout of the new ADA aluminum handrail in relationship to the existing railing noting the various pieces you will need and where you will need them. Check to see if you have all of the pieces that you will need.

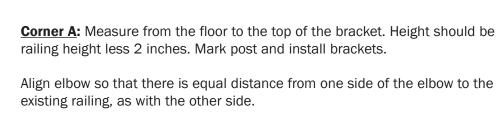
Determine the height of the railing (35" to 38" to the top, for commercial applications) and check how that height works coming down or up steps.

Establish a place to begin. NOTE: If there is an inside corner you must start there first.



WARNING: This product can expose you to chemicals including Quartz (crystalline silica), which is known to the State of California to cause cancer, and Hexavalent Chromium, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.





Note: When installing railing into posts that have steel post brackets an aluminum insert is recommended for railing bracket installation. See lower step railing post illustration on back page.

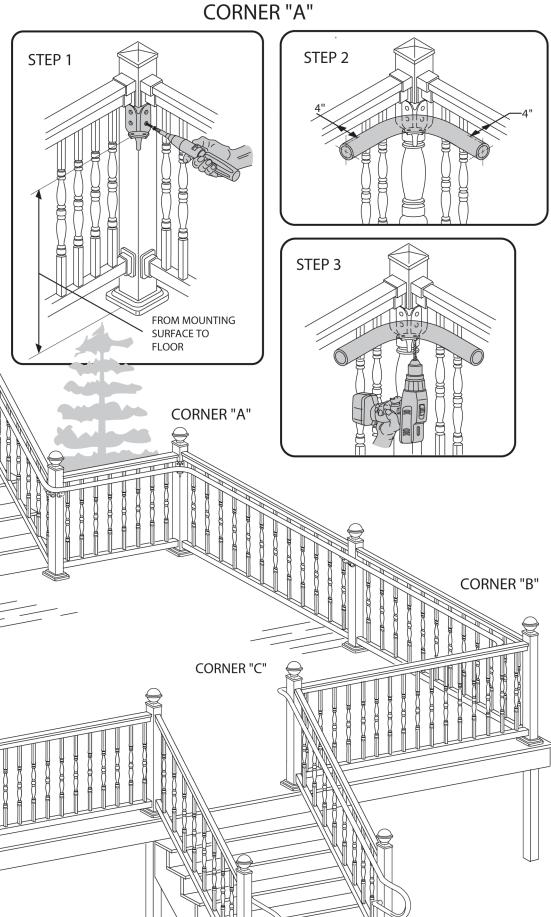
Make sure that the elbow is flat, drill pilot holes and secure with screws.

Screw and Pilot Bit Recommendations:

*Please Note:

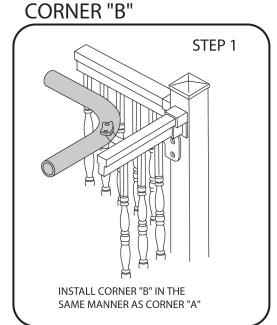
If there is an inside corner you must start there first.

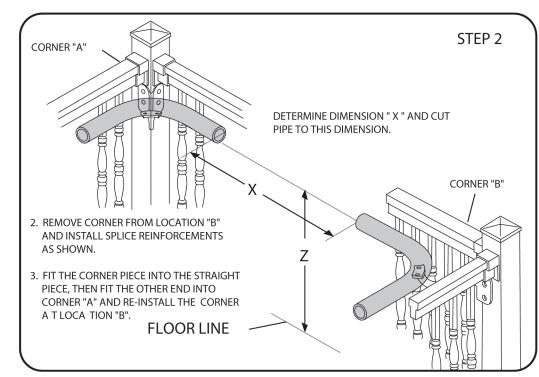
Into Post (A, Step 1) Screw #14 x 1" into an aluminum insert using a 7/32" Pilot Bit or a #14 x 1 1/2" into wood using a 5/32" Pilot Bit - Phillips Bit P3 Into Hand Rail (A, Step 3) Screw #14 x 1" - Pilot Bit 7/32" - Phillips Bit P3 Into Connector (B, Step 3) Screw #10 x 1" - Pilot Bit 5/32", Countersink Drill 9/32", Square Drive #2 Bit



<u>Corner B:</u> Install elbow using the same instructions as Corner A.

Hand Rail: Measure distance between corners A and B (as shown). Add required pieces to corners using connectors. Pump pliers or vise grips can be used to fit connectors into the hand rail as well as tapping, as required, with a heavy rubber mallet. Final length may need to be cut for exact fit. Remove Corner B and fit together with handrail. Return Corner B to bracket and secure with screws.





Where ever two ends of aluminum ADA handrail are joined, either to each other or to elbows, tighten the joint by drilling a 9/32" countersink and 5/32" thru hole and securing with screws. Make sure screw heads are smooth. (See next page, Finishing Connections)

