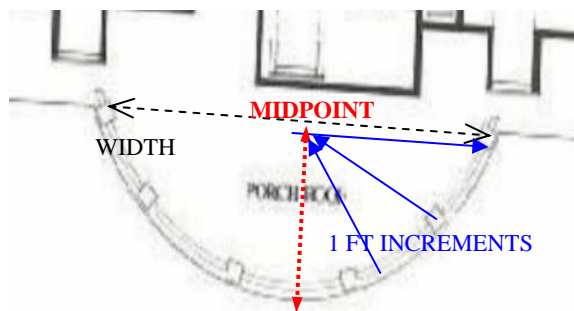


Balustrade Systems / Curved Rail Measurements & Making A Template

Marble Fiberglass Reinforced Polymer Composite Product Manufactured By Timeless Architectural Reproductions, Inc.™

Use the following guidelines to provide Timeless Architectural Reproductions [TAR] with dimensional information for Curved Rail applications:

- If the platform the rail is being placed on is an arc that is based on a true circle with a known radius, provide TAR with the exact radius length dimension. As the finished platform may vary slightly from the architectural plans it is always **BEST** to provide a template to insure an accurate fit (see instructions below).
- If the radius of the platform is not known or the curve is compound or elliptical, a template **MUST** be provided (see instructions below).
- If there are newel posts purchased from the manufacturer on the curved rail section we will need to know how far back from the platform edge the newel posts will be placed. We can then adjust the rail center radius to match the center of the newel posts.
- If you are using architectural columns or posts that have not been purchased from the manufacturer you will need to provide the measurement from the center of the column or post to the edge of the platform. We can then adjust the rail center radius to match the center of the columns or posts.



Making A Template - In the example left, it appears that the curved rail is an ellipse as opposed to a section of a full circle therefore it is necessary that a template of the curved section be made.

- Measure the width of the back edge of the curve noting where the measurement is taken from (inside, middle or outside edge).
 - Measure the length of the centerline from the midpoint of the width of the arch to the midpoint of the arch (noting if measurement is to outside, inside or middle edge of the bottom rail).
- Measure the distance between each set of newel posts (noting again where that measure is taken from) and add 12" to that measurement to allow for curvature of the rails.
 - Make a template of the arch using builders Kraft paper:
 - Lay builder's paper along the edge of the platform cutting and taping as necessary to cover the shape and distance of arch.
 - Bend the paper over the edge of the platform.
 - Use a crayon to scribe along the crease formed along the bended edge.
 - Make hash marks at 1' increments along the scribed bended edge.
 - Measure the distance from the midpoint of the radius width to each of these 1' increment marks. Record this measurement at each point on the paper beside the corresponding 1' mark.
 - Provide the customer's name and signature as well as order number on the template as confirmation of the measurements for this custom-made curved rail section.



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