



GLASS RAIL SYSTEM SERIES 1000, 2000 & 3000

KEY POINTS

- When approaching glass rail system applications, two methods can be used:
 - 1) Install the railing framework, then measure for finished glass sizes.
 - 2) Pre-determine and calculate post locations and glass panel sizes. This method holds more risk as tempered glass panels can not be cut.

NOTE: Railcraft® recommends that the first method be used on your first few applications. Railcraft™ strongly recommends this method as well as templates be used to order glass on stair applications.

- As a standard rule the outside of the post face (not the base plate) is positioned 1-3/4 inches in from the edge of the deck rail creating approximately 2-1/2 rail center line from the deck edge. This measurement may require field adjustment due to variable installation methods due to field conditions.
- All posts requiring top sleeves with mounts (i.e. corner posts / center posts with top center sleeves etc.) require 1/8 of an inch to be cut off to maintain uniform rail height and glass opening.
- 3/8" x 1/2" glass setting block to be installed in bottom rail with 1/2" as the vertical height. Each glass panel requires minimum of 2-3" pieces of setting block set in approximately 8" from each end of the opening. (See Section-01 drawing)
- Applying a small amount of liquid dish soap to the glass insert makes the glass installation easier.
- Standard glass height for SERIES 1000, 2000 & 3000 is:
 - 30-7/8" for 36" high rail
 - 36-7/8" for 42" high rail
- ** Note: For custom rail height applications, add 3/4" to opening height between installed top and bottom glass inserts. (See Section-01 drawing)
- 5'6" maximum center to center post spans recommended * **NOTE: Post spans may vary due to application method and site conditions.**
- Stair applications require taller posts to be field cut to suit. (40" post height is required on standard surface mount applications – to be field cut to suit.)
- Refer to **Railcraft®** product and sales catalogue estimating section for additional installation hints.
- Consult your **Railcraft®** representative if you should require additional assistance.



SERIES 1000, 2000 & 3000 – GLASS RAIL

GLASS DECK RAIL INSTALLATION

- 1) Determine post type and placement location. (5'6" maximum center to center post spans recommended) Loosely lay out posts to determine best spacing and equal glass sizing.

NOTE: Post spans may vary due to application methods and site conditions.

- 2) For plain post applications install all rail clips required to deck posts at this time. If welded bottom sleeved posts are being used this step is not required.
- 3) Install all corner posts, end posts and center posts with center sleeves (**NOTE: Install center posts requiring top center sleeves with mount only at top rail splice locations.**)
Remaining center posts to be installed later.

NOTE: Remember to trim off 1/8" from top of posts, which require top sleeves with mounts to insure uniform rail height and glass opening.

- 4) Loosely install top sleeves with mounts into top of post. Do not fasten at this time.
- 5) Cut top rail and place in position, being sure to mitre cut the top rail before running into corner sleeves to obtain maximum strength.

TIP – Cut top rail approximately 1/2" shorter than tight measurements to allow for adjustment.

- 6) Upon installation of top rail, top sleeves with mounts can now be fastened to post using 2 - #8 x 3/4" TEK screws and fastened to top rail using 2-#12 x 1-1/2" screws. Pilot drill as required.
- 7) Install post mounts (Part # 28-010) using 2 - #8 x 3/4" to the top of remaining center posts.
- 8) Plumb and install remaining center posts at pre-determined locations. Secure the post to the top rail fastening the top post mount to top rail using 2 - #8 x 3/4" TEK screws. #14 x 2" or #14 x 3" are typically used to fasten post to typical wood deck applications. Post anchoring may vary depending on field conditions. Consult your **Railcraft®** representative for additional information.

TIP – You may wish to loosely install remaining center posts and secure top and bottom of post after installation of bottom rail to allow for field adjustments and ease of installation.

- 9) Measure and cut bottom rail between post locations. Install and attach bottom rail in welded bottom sleeves or to rail clip depending on post type used. Install required support legs at this time.

TIP – You may wish to insert glass insert into bottom rail and cut both pieces at the same time to save time and labor.

- 10) Cut and install glass insert into top and bottom rails between posts. Mitre cut or notch top rail glass insert at ends to clear top post mount locations.
- 11) Cut and install 2-3" pieces of glass setting block into bottom insert. Insure 1/2" vertical height is placed upward. Position each piece of setting block approximately 8" from each end.
- 12) Insert glass panel into top rail glass insert, swing panel back over bottom rail glass insert and lower glass into bottom rail glass insert.



SERIES 2000 – GLASS RAIL SYSTEM

GLASS STAIR RAIL INSTALLATION

- 1) Determine post type and required stair parts and placement locations.
NOTE: Stair applications require taller posts to be field cut to suit (40” post height required on standard surface mount applications – to be field cut to suit).
- 2) Cut mid-posts and bottom stair posts at required height and stair angle. Attach stair mount plate part # 08-05 using 2 - #8 x 3/4” TEK screws onto top of post.
NOTE: Insure center screw chases in top of post runs parallel with stair stringer before angle cutting top of post. This is critical for installation of stair mount plate.
- 3) Position and attach required mid-posts and bottom stair posts to stair treads.
- 4) Install top rail into top stair fitting and attach mid and bottom stair posts to top rail using #12 x 1-1/2” screws through pre-drilled holes in stair mount plate # 08-05. Protrude top rail over bottom stair post and install top rail end cap in open end.
- 5) Install bottom rail stair sleeves to all stair posts at required height.
- 6) Measure, cut and install bottom rail into bottom stair sleeves.
- 7) Measure, cut and install top and bottom glass inserts into top and bottom rail.
- 8) Install solid uniform piece of glass setting block into bottom glass insert as to prevent setting block from sliding downward.
- 9) Insert glass into top rail glass insert, swing panel back over bottom rail glass insert and lower into bottom rail glass insert.