Installation Guide

Videos Instructions Glass Order Sheet on line:

https://www.homerailltd.com/diy_videos_aluminum_deck_railing.php https://www.homerailltd.com/aluminum-railing-glass-instructions.php https://www.homerailltd.com/aluminum-railing-glass-instructions.php

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Tools (images in appendix)

- 1. Chop Saw with Non-ferrous blade
- 2. Level
- 3. Hex head 5/16 for tek screws
- 4. 3/8 Hex head bit, used for lag screws
- 5. Cordless Drill
- 6. Hammer Drill (Hilti TE2 recommended) for concrete installation
- 7. Tape Measure
- 8. Clamps (Quick Grip recommended)
- 9. Square



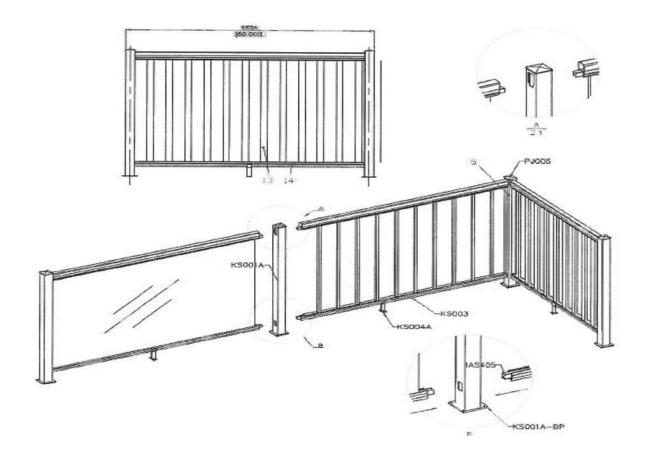
Basic Building Codes



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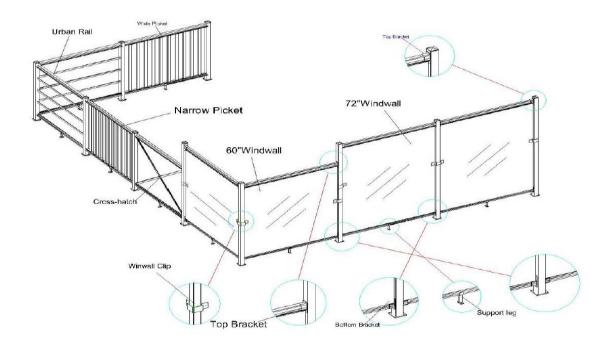
- 1. No gaps larger than 4 "
- 2. 42" min height
- 3. All posts should have blocking if possible
- 4. Stair height 32" to 38" vertically up from stair nose
 5. no rail required down stairs if 3 rise or less, rail required if 4 rise or more, if 6 rise then rail required down both side of stairs

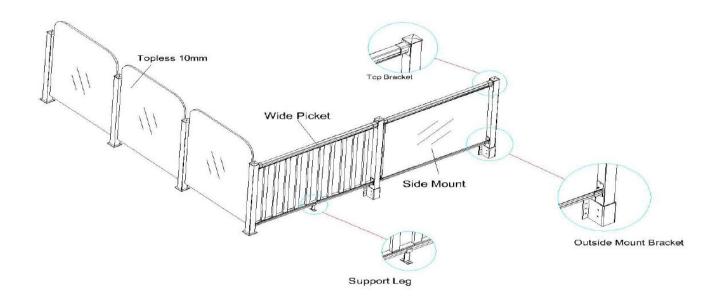
Cad Files:





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Stairs:



Place posts – install and level (same distance from front edge of each step)

Cut two pickets at 35 degrees to 30" long and attach one to each stair post

Attach the first picket 6" down on the top stair post

Attach the second 30" picket 4.5" down on the bottom stair post

Cut rail longer then needed and clamp onto posts in position on side of posts so the bottom of the rail is 1" below the attached top of each picket

Score the Back of each rail with a pencil (this is your angle cut for the Rail)

Do same procedure for Bottom Rail (clamp on 1" higher then the bottom of each attached picket)

Score the back of each and cut

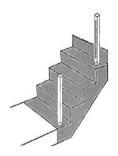
Slip the top rail on over the picket and attached to picket using smallest Tek screws

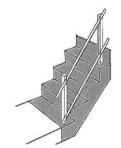
Do same for bottom rail (hold up tight and screw to picket on each post using small tek screws)

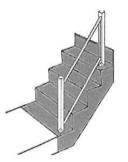
Snap first clip in place on both top and bottom rail

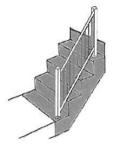
Cut all pickets to the same size as first 2 then tilt each one and slide in place tight to clip

And clip and repeat









https://www.homerailltd.com/diy_videos_aluminum_deck_railing.php







5/8" and Wide Picket Decks:



- 1. For decks make sure to install "key posts" "Key posts" are posts that start and end a run of rail "Key posts" are EP and CP
- 2. Do not over tighten hex screws as you will strip wood
- 3. Make sure to find where joists are on the deck because hex head screws must "tag" into Joists to ensure structural stability along outside of deck
- 4. Level all "Key posts" to ensure level and straight runs.
- 5. Once "Key posts" are installed and level then determine if run requires a LP
- 6. Max distance between posts is 6 ft
- 7. Cut rail to fit to each section (measure center to center of each post)
- 8. Cut all rail for corner posts at 45 degree
- 9. Attach rail using tek screws
- 10. Insert clips. Snap 1 on top and bottom channel of the rails start on one side, then add picket and clip top and bottom till other side is reached. Make sure distance on each final clip is equal to do this measure last opening divide by 2 and cut clips to that distance. Then slide picket and clips over putting one of each shorter clip on each end

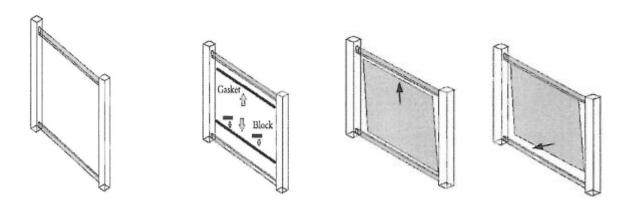
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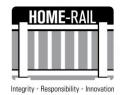
Glass Decks:

See below link for excel glass ordering sheet to email in.. https://www.homerailltd.com/aluminum-railing-glass-instructions.php

- 1. For decks make sure to install "key posts" "Key posts" are posts that start and end a run of rail "Key posts" are EP and CP
- 2. Do not over tighten hex screws as you will strip wood
- 3. Make sure to find where joists are on the deck because hex head screws must "tag" into Joists to ensure structural stability along outside of deck
- 4. Level all "Key posts" to ensure level and straight runs.
- 5. Once "Key posts" are installed and level then determine if run requires a LP
- 6. Max distance between posts is 6 ft
- 7. Cut rail to fit to each section (measure center to center of each post)
- 8. Cut all rail for corner posts at 45 degree
- 9. Attach rail using tek screws
- 10. Insert glass channel supplied (remove clear channel), put 2 blocks in bottom channel evenly spaced to hold up glass, insert glass as shown below. Insert up into channel move over and down into bottom channel.



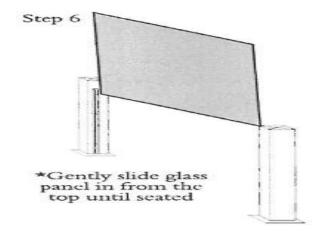
https://www.homerailltd.com/diy_videos_aluminum_deck_railing.php



Topless Glass Decks:

- 1. Install and level posts as per regular glass decking instructions
- 2. Measure for glass as below
- 3. Install glass using Windex as per step 6 diagram below







Privacy Walls:

- 1. Cut Post to desired height- all are 80" so make sure to cut first to 6 or 5 ft
- 2. Cut each post so that if you have any slope it is accommodated for. This means each post is lsightly taller as you move away from the house (the string line at top of post should be level not run with deck
- 3. Attach top brackets below cap
- 4. Attach bottom brackets same distance down on each post from the top bracket (the gap under the bottom rail cannot be more than 4 inches at any point
- 5. Install posts and level
- 6. Once posts for 6' WW are installed and secure and level, time to cut rail
- 7. Measure distance form post to post to insure you have enough rail to fasten runs together
- 8. Once rail is cut and installed top and bottom fasten with 5/8" tek screws both sides to ensure stability
- 9. Once rail is attached and fastened install glass insert to both top and bottom rail
- 10. Be sure to install setting blocks in bottom rail evenly apart
- 11. Once 6'WW section is assembled and secure you need to measure for glass to be installed at later date
- 12. See below on how to measure glass and link below to order glass measurement excel sheet
- 13. Then divide the height in half and that is where your WW clips will be installed to secure glass once installed
- 14. WW clips are use to stabilize glass in 6'WW sections
- 15. To secure glass to WW clips use caulking.
- 16. Make sure that braces are installed in the middle of the alum post and into the joist or house wall.



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Urban Rail:

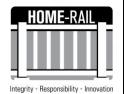
Same as Glass decks with 2 exceptions: install one picket attached to the inside of each post connecting to the top and bottom rail on every section. Attach 6 ft clips (cut to size) equal distances in height onto these pickets



Side Mount Railing:

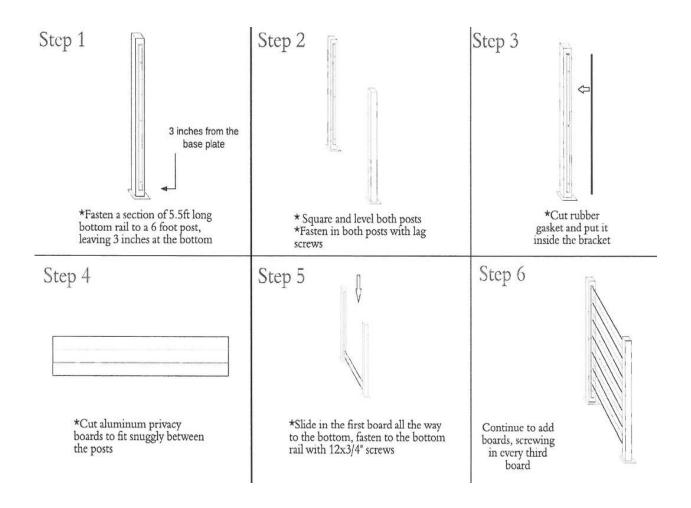
- 1. Attach Brackets to stringer
- 2. Insert 54" posts so top holes are all LEVEL and above 42" from the deck surface to top of top rail
- 3. Add bottom Brackets to each post so that the distance between top and bottom rail same distance down from bottom of top rail 34.625" making sure no gap is above 4" below bottom rail





Fence:

- 1. Install and level posts
- 2. Attach 80" channel to each post centered
- 3. Insert rubber gasket at 80" cut size
- 4. Cut fence panels to fit inside channels allow 1/4"
- 5. Slide in first panel and fasten to channel
- 6. Repeat only need to fasten every 4 panels

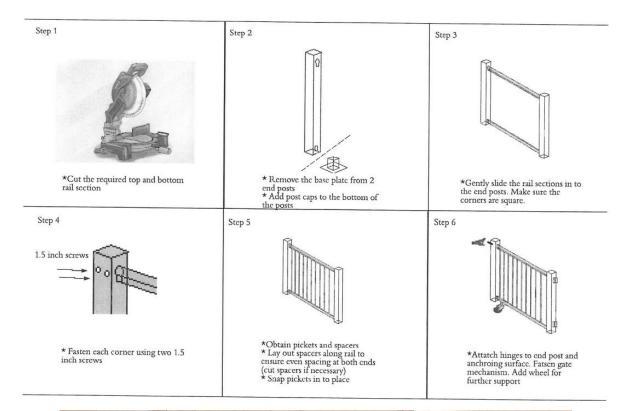


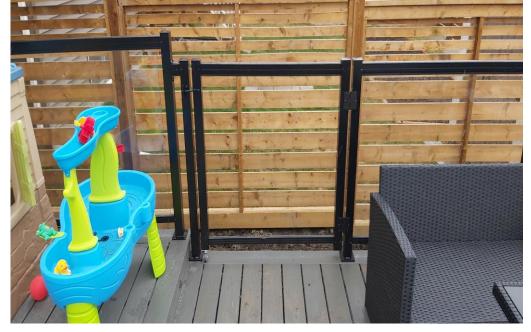
Gates:

- 1. Attach top and bottom rails to 2 end posts to desired width
- 2. Insert pickets or glass as per normal deck installation
- 3. Center hinges and add latch to opposite side
- 4. Add wheel to bottom of swing post if needed (cut post up 2.25" higher)

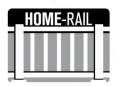


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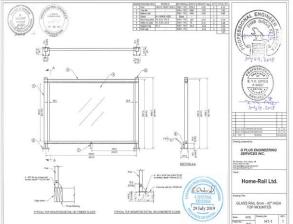


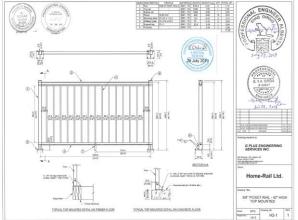


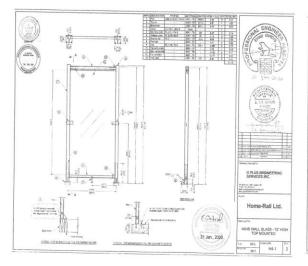
Engineering:

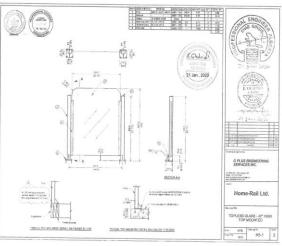


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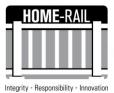








Ordering Glass:



GLASS ORDERING AND INSTRUCTIONS

Download Master Glass Order Form (Excel XLS).

Our glass order template (above) is to be used for each and every glass order. Please fill in the "yellow" section with your tight openings and the form will do all the take offs for you. You can now tag your glass by location ie: front piece "A" or north side piece "1". Once completed send this form to glassorders@home-rail.com. For topless rail you will need to provide the tight measurement between the two brackets. For Urban rail we require the distance between the pickets. All measurements must be in the imperial system (inches).

For glass height we require the distance between the bottom and top rail with the glass insert in!!!!

Please do not forget to give us the finish type (clear, rain, pinhead etc.) and include your contact information. **HOW TO MEASURE GLASS**



Warranty:

See below link for warranty information

https://www.homerailltd.com/aluminum-railing-warranty-information.php