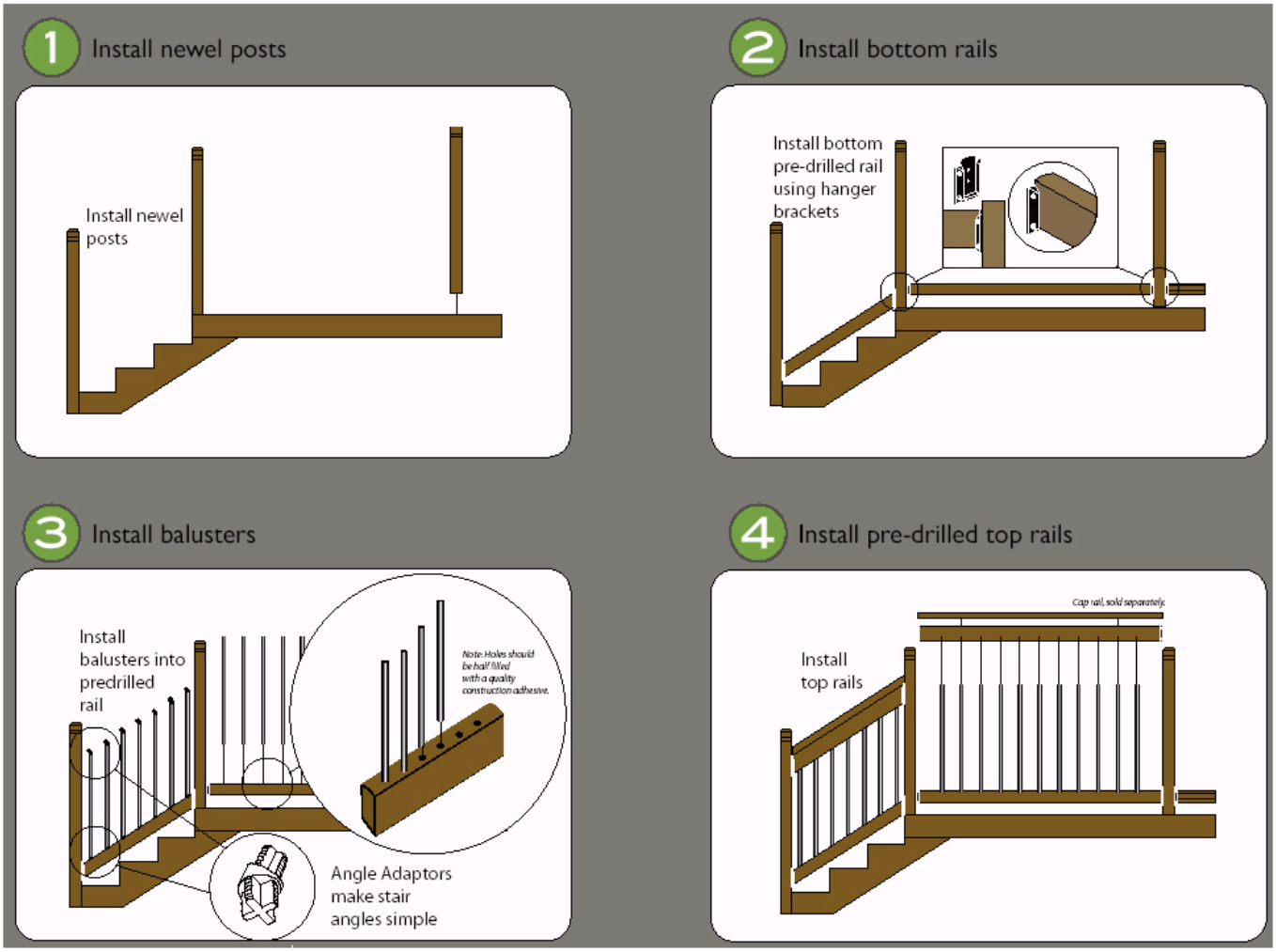
vista style & simplicity

TRADITIONAL RAILING INSTALLATION GUIDE



This document is a detailed step–by–step installation guide for the Traditional rail system.

These instructions may not cover all scenarios that may arise. Before beginning your installation take time to read all instructions thoroughly. A fundamental understanding of carpentry and a basic knowledge of power tools is essential. Please call our technical support line for any assistance required. 1–800–667–8247

Building codes are constantly changing and they can vary by province, state, county, city, town, and/or borough. In order to learn which codes are being used and how they will affect you and your construction project, contact your local building inspection department, office of planning and zoning, and/or department of permits.

1 Step 1 Install Newel Posts

A) Set posts to accomodate required rail lengths. See detail 1–5, 1–6 for post attachment methods. Considering your rail height, posts may be trimmed to a desirable post height.

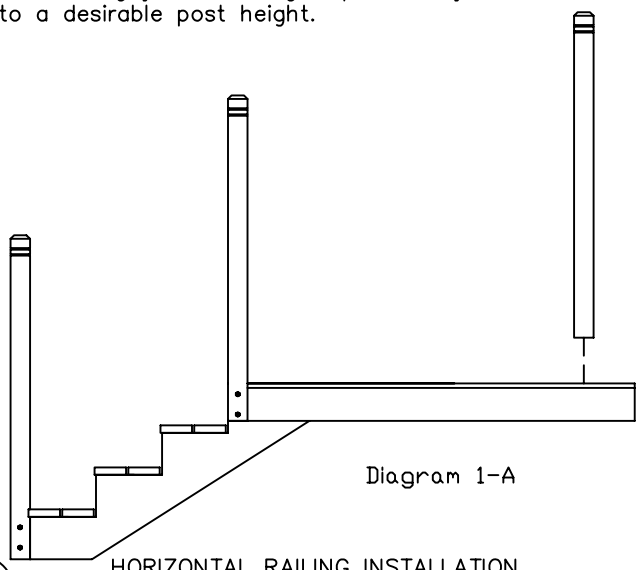


Diagram 1-A

HORIZONTAL RAILING INSTALLATION

2 Step 2 Trimming the Pre–drilled Rails

A) Measure the distance between posts.
B) Mark the required length on the rails keeping pre–drilled holes centered between the marks.
C) Subract 1/8" (3mm) at each end for hanger brackets.
D) For bottom rails, place brackets over ends of rail with pre–drilled holes and open end of bracket facing up. See diagram 2–E and detail 1–1. Fasten brackets to end of rail using 2–#8 x 1 3/4" (45mm) screws.
E) For top rails, place brackets over ends of rail with pre–drilled holes facing down and open end of bracket facing up. Fasten brackets to end of rail using 2–#8 x 1 3/4" (45mm) screws.
F) OPTIONAL METHOD for rail attachment without Rail Hanger Brackets follow steps A,B,D, and Detail 1–3.

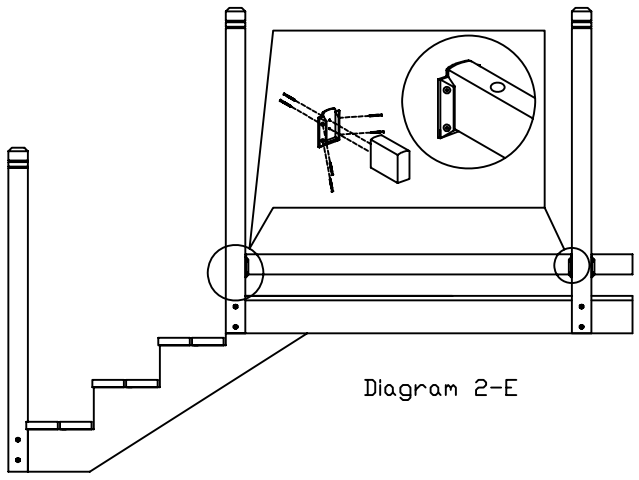


Diagram 2-E

3 Step 3 Installing the Bottom rails

A) Use 3 9/16" (91mm) blocks or spacers under bottom rail to set rail to desired height.
B) Attach bottom rail to post using 8–#8 x 1 3/4"(45mm) screws. See detail 1–1
C) OPTIONAL METHOD for rail attachment without Rail Hanger Brackets Use 4–#10 x 3"(76mm) screws installed at a 45 degree angle to the post. See detail 1–3.

4 Step 4 Install Balusters

A) Fill pre–drilled holes in bottom rail half way with a high quality constuction adhesive that conformes to APA AFG–01.
B) Insert balusters into pre–drilled rail (ensure balusters are fully inserted). See diagram 4–B

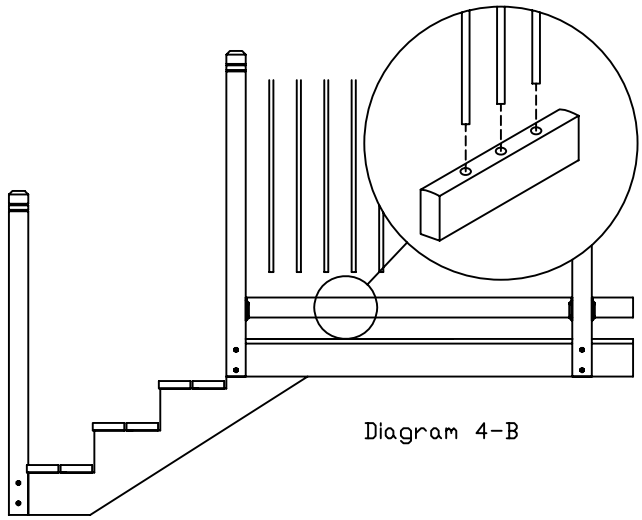


Diagram 4-B

5 Step 5 Installing The Top Rail

A) Fill pre–drilled holes in top rail half way with a high quality constuction adhesive that conformes to APA AFG–01.
B) Place top rail over balusters and starting at one end of rail insert one baluster at a time into pre–drilled holes (ensure balusters are fully inserted). See detail 5–B
C) Attach top rail to post using 8–#8 x 1 3/4" (45mm) screws. See Detail 1–1
D) OPTIONAL METHOD for rail attachment without Rail Hanger Brackets. Use 4–#10 x 3" (76mm) screws installed at a 45 degree angle to the post. See Detail 1–3

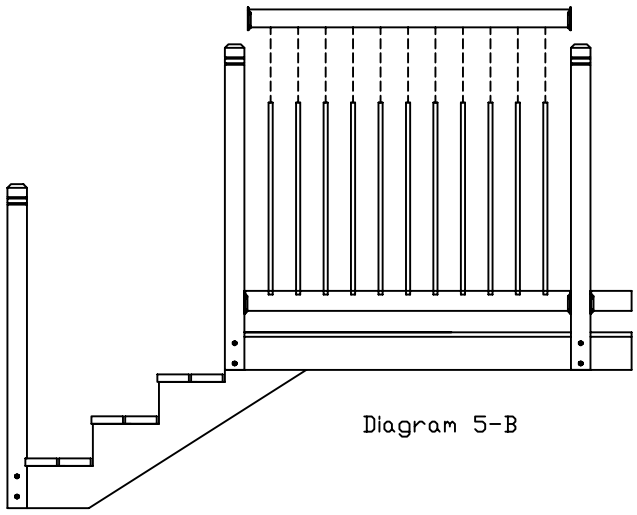


Diagram 5-B

6 STAIR INSTALLTION

Step 6 Trimming The Pre–drilled Rails

A) Lay the bottom rail across the nosing of the stairs keeping the pre–drilled holes centered between the posts. Mark the points were it intersects the posts. See Detail 6–A
B) Subract 1/8" (3mm) at each end of rails for hanger brackets.
C) Trim the bottom rail with a miter saw.
D) Repeat this process for the top rail ensuring that the pre–drilled holes are facing downward.
E) For bottom rails, place brackets over ends of rail with pre–drilled holes and open end of bracket facing up. See diagram 6–E and detail 1–1. Fasten brackets to end of rail using 2–#8 x 1 3/4" (45mm) screws.
F) For top rails, place brackets over ends of rail with pre–drilled holes facing down and open end of bracket facing up. Fasten brackets to end of rail using 2–#8 x 1 3/4" (45mm) screws.
G) OPTIONAL METHOD for rail attachment without Rail Hanger Brackets follow steps A,C,D, and Detail 1–3.

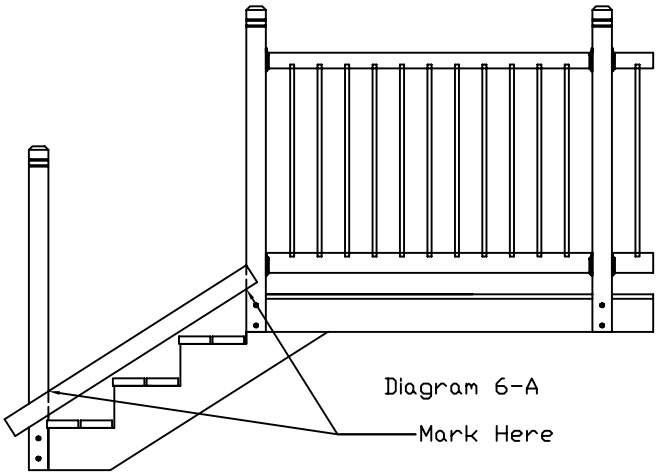


Diagram 6-A

7 Step 7 Installing the Bottom rail

A) Place bottom rail between posts and raise rail approx. ¾' (19mm) off the stair nosing See diagram 7–A
B) Attach bottom rail to post using 8–#8 x 1 3/4" (45mm) screws. See Detail 1–1
C) OPTIONAL METHOD for rail attachment without Rail Hanger Brackets. Use 4–#10 x 3" (76mm) screws installed at a 45 degree angle to the post. See Detail 1–3

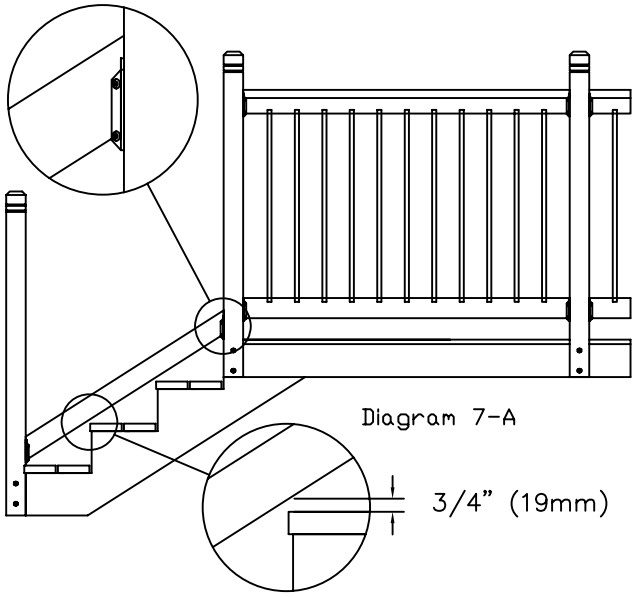


Diagram 7-A

8 Step 8 Install Stair Balusters

A) Fill pre–drilled holes in bottom rail half way with a high quality constuction adhesive that conformes to APA AFG–01.
B) Insert angle adapters into bottom of balusters.
C) Push balusters into predrilled holes on bottom rail (ensure balusters are fully inserted). See diagram 8–C

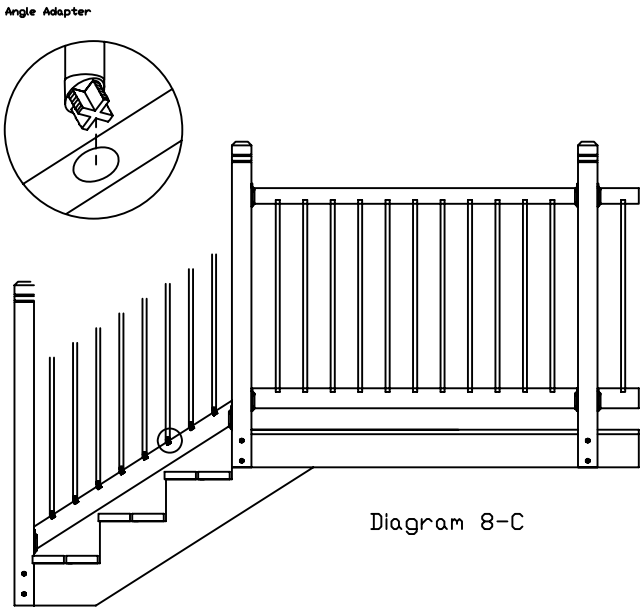


Diagram 8-C

9 Step 19 Installation of The Top Rail

A) Fill pre–drilled holes in top rail half way with a high quality constuction adhesive that conformes to APA AFG–01.
B) Insert angle adapters into the holes of the top rail ensuring the adapter is facing in the correct direction.
C) Lower top rail over balusters and starting at one end of rail insert one adapter at a time into balusters (ensure balusters are fully inserted). See diagram 9–C
D) Attach top rail to post using 8–#8 x 1 3/4" (45mm) screws.
E) OPTIONAL METHOD for rail attachment without Rail Hanger Brackets see Detail 1–3. Use 4–#10 x 3" (76mm) screws installed at a 45 degree angle to the post.

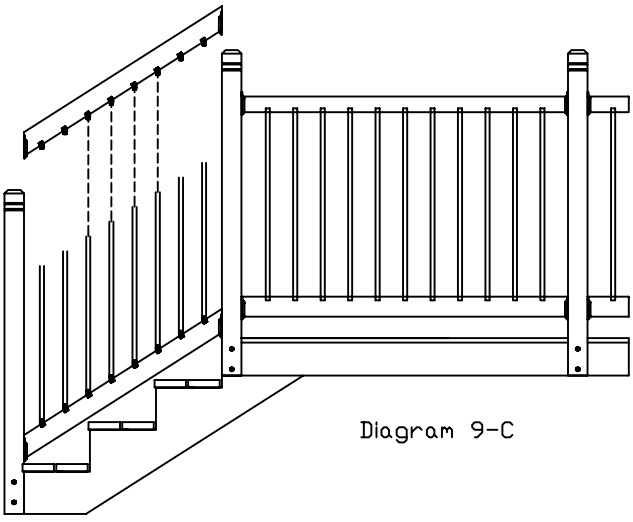


Diagram 9-C

10

Step 6 Installing The Cap Rail

A) Measure the distance between the posts.
B) Mark the required length on the cap rail and trim with a miter saw.
C) Apply exterior type II glue to the top rail. Cap rail is fitted on top and nailed, 2 ½" (63mm) galvanized nails @ 12" (600mm). See detail 1–3
Fasten the cap rail to the post using 2–#8 x 2" (50mm) screws installed at a 45 degree angle. See detail 1–1 and 1–3.

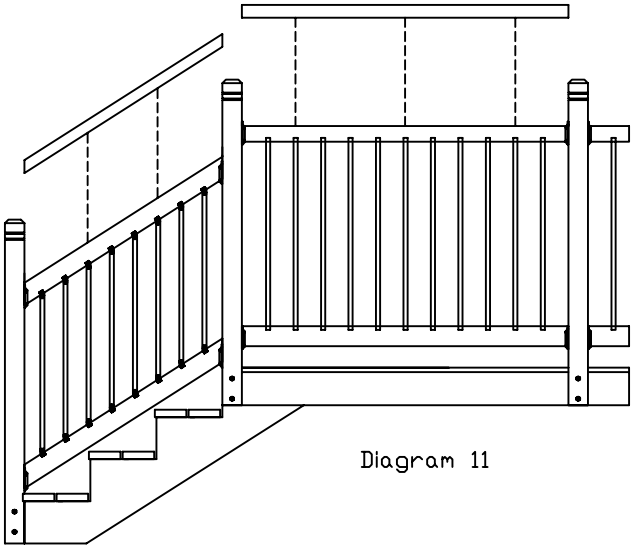


Diagram 11

11

Step 11 Construction And Finishing Tips

A) Installation of screws in rails should be pre–drilled to prevent splitting.
B) If ACQ treated wood has been trimmed, it is necessary to re–finish the cut end. Check with your local paint department for the appropriate finish to use.
C) Finish with exterior paint or stain before assembly.

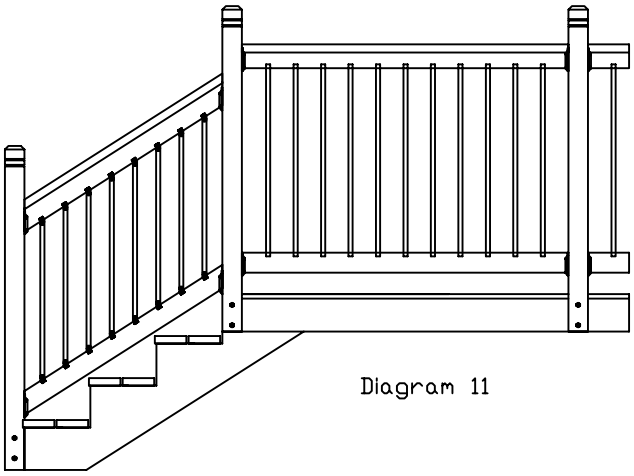
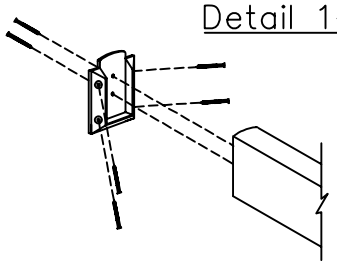
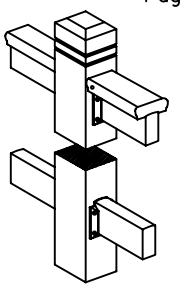


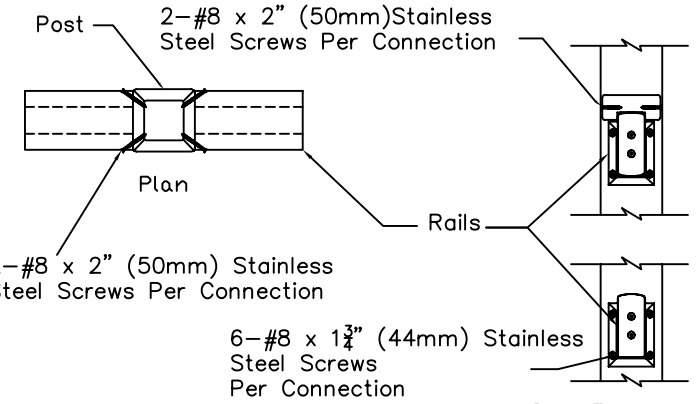
Diagram 11

Detail 1–1





Axonometric

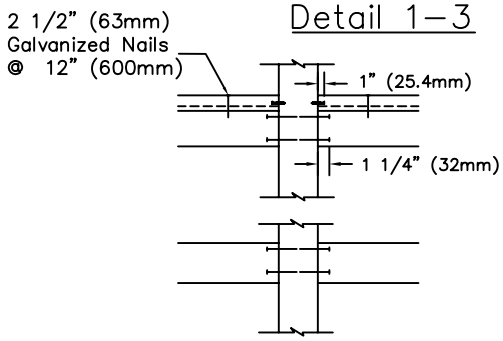


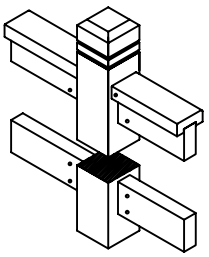
Detail 1–1

Exterior Connection:
Cap Rail Glued and Nailed 2 ½" (63mm) @ 12" (600mm) to Top Rail, Skew Screwed to Post–2" (50mm) screws
Top/ Bottom Rail Skew Screwed to Post–1¾" (45mm) screws.

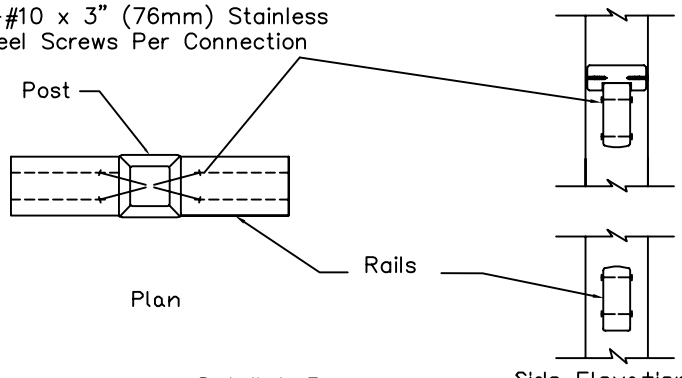
1) Nails and screws shall not cause splitting of wood elements.
2) Fasteners shall be resistant to corrosion.
3) Glue Exterior Type II.

Detail 1–3





Axonometric

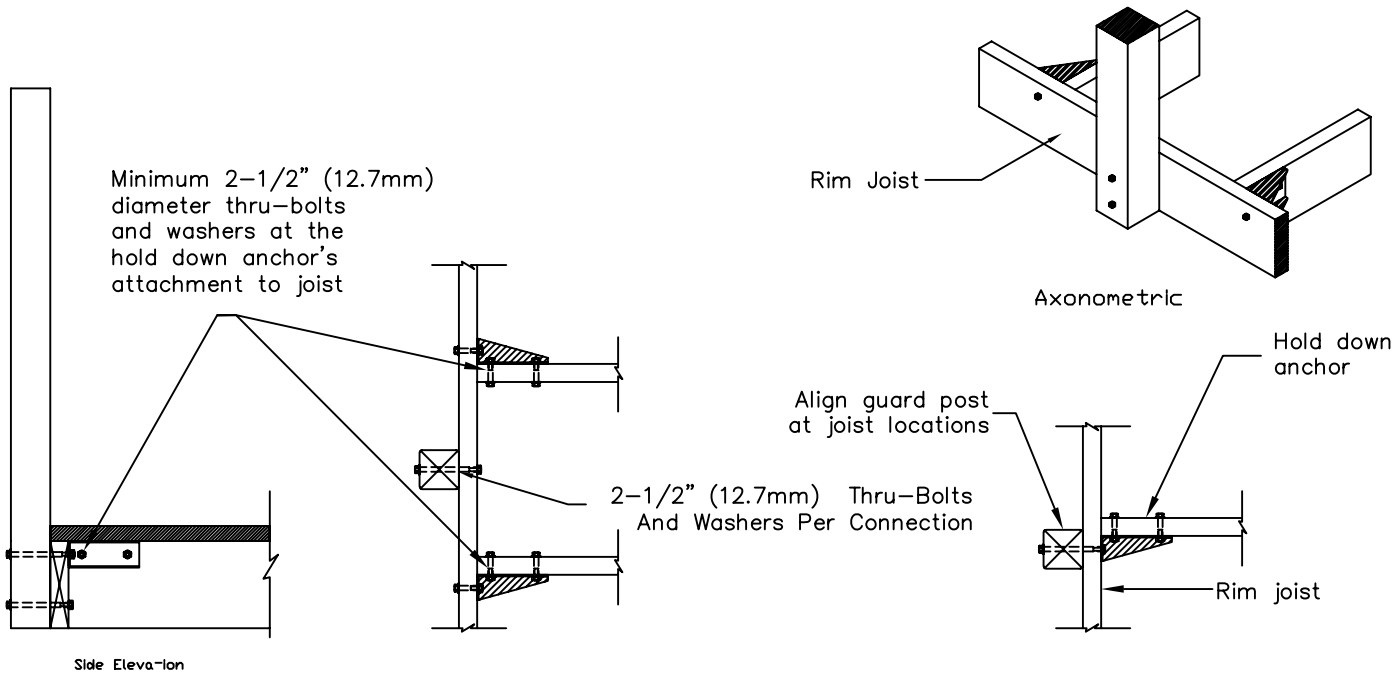


Detail 1–3

Exterior Connection:
Cap Rail Glued and Nailed 2 ½" (63mm) @ 12" (600mm) to Top Rail, Skew Screwed to Post–2" (50mm) screws
Top/ Bottom Rail Skew Screwed to Post–3" (76mm) screws.

1) Nails and screws shall not cause splitting of wood elements.
2) Fasteners shall be resistant to corrosion.
3) Glue Exterior Type II.

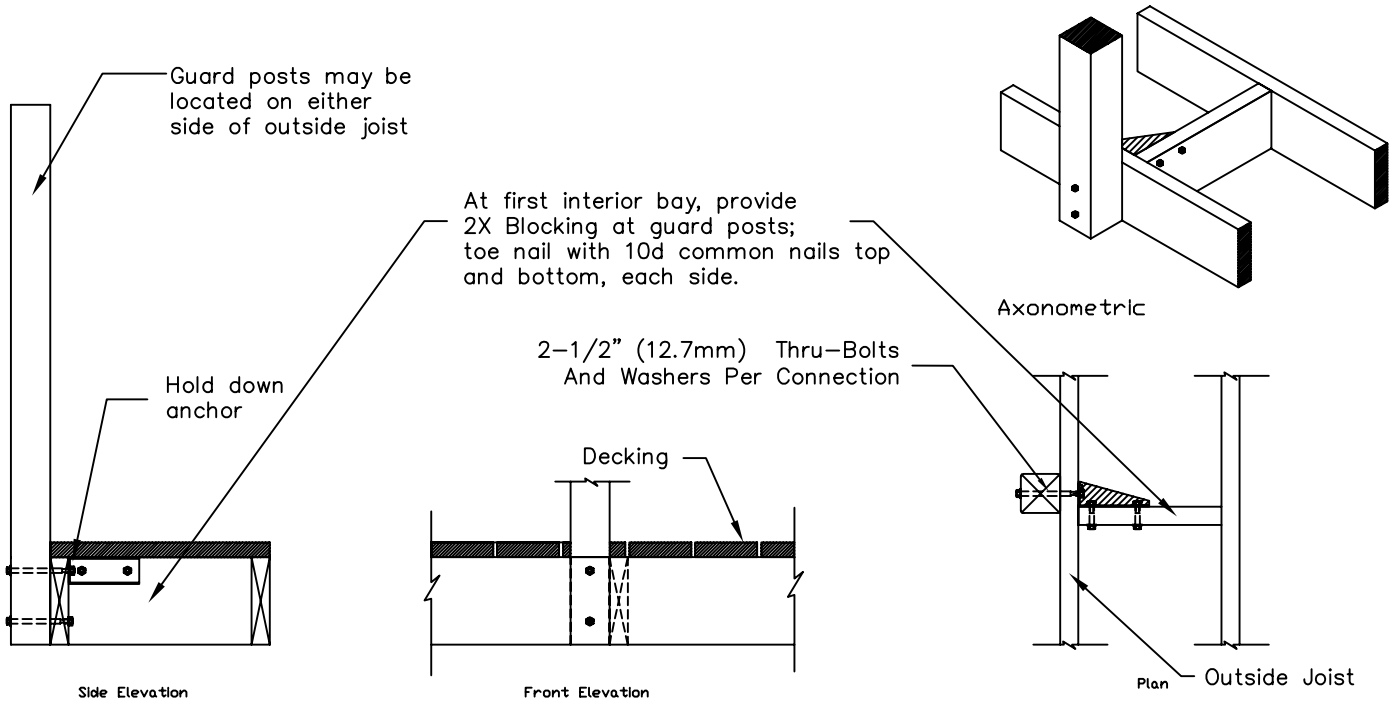
Detail 1–5
Exterior Connection: Posts For Guards That Run Perpendicular to Deck Joists



Detail 1–5

Exterior Connection: Post Bolted to Rim Joist 1/2" (12.7mm) Thru–Bolts
1) Decking is omitted from plan view and the axonometric view for clarity.
2) Fasteners shall be resistant to corrision.

Detail 1–6
Exterior Connection: Posts For Guards That Run Parallel to Deck Joists



Detail 1–6

Exterior Connection: Post Bolted to Outside Joist 1/2" (12.7mm) Thru–Bolts
1) Decking is omitted from plan view and the axonometric view for clarity.
2) Fasteners shall be resistant to corrision.

vista

For Technical support
please call

1–800–667–8247

Instructions are also available on
our website

www.vistarailings.com

Tool List

Hammer	Ratchet Wrench	Tape Measure
Wood Chisel	Miter saw	Level
Clamps	Hand Drill	

Stainless Screws #8 x 2" (50mm) Drill Bit Size $\frac{9}{64}$" (3.5mm)
Stainless Screws # 10 x 3" (76mm) Drill Bit Size $\frac{11}{64}$" (4mm)
Galvanized Nails 2 ½" (63mm)
Carpenters Glue (exterior type II)
Construction Adhesive (conformes to APA AFG–01)