PEAK™

Stair Riser Connector
Joins 4-Step, 5-Step or 6-Step Risers

Installation Instructions

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Model 2610

Contents:

1x Stair Riser Connector

4x 1/4" carriage bolt
4x 1/4" flat washer
4x 1/4" lock washer
4x 1/4" hex nut

1x 3/8" hex bolt
2x 3/8" flat washer
1x 3/8" lock washer
1x 3/8" hex nut

Tools and Materials Needed

All applications:

Hammer
Measuring tape
Level
Drill
Drill bits for wood: 9/32", 1/4"

Drill bits for metal: 5/16", 7/16"
9/16" Hex Driver Bit
Wrench: 7/16", 9/16"
#10 x 1½" Wood screws
1/4" x 2" Lag bolts
16d x 3½" Common nails

1/4"x 2" Carriage bolts
1/4" Flat washers
1/4" Hex nuts
2x6 Stair treads
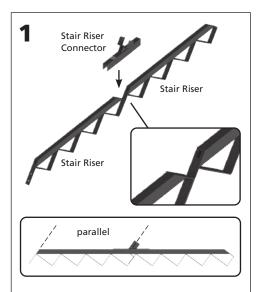4x4 Posts
2x4 Bracing
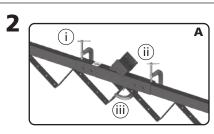
Attaching to wood surfaces:
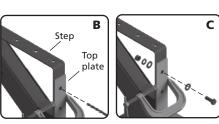3/8" x 3½" min. lag bolts

Attaching to concrete surfaces:
Hammer drill
Drill bit for concrete: 3/8"
3/8" x 3" Concrete anchors

1
Stair Riser Connector
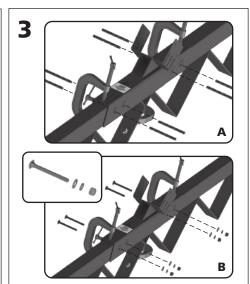Stair Riser
Stair Riser
parallel

Stand risers upside down and end-to-end on a flat surface. Slide Connector over the joint area, and then move horizontally as needed to ensure Connector is fully seated in the right direction on the risers.
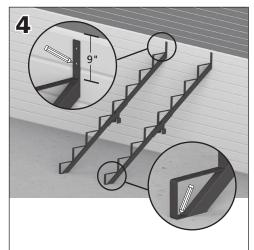
2
A
i ii iii
B
Step
Top plate
C

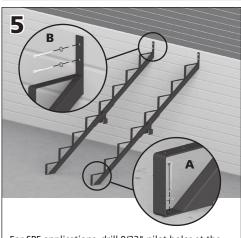**A:** Use three clamps (i, ii, iii) to secure Connector and risers at each joint.
B: Turn the assembly right way up, then use a 7/16" drill bit for steel to drill a hole through the step at the pre-drilled location on the top plate.
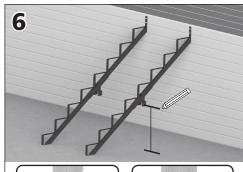**C:** Fasten step to top plate using 3/8" bolt, nut and washers.

3
A
B

A: Use a 5/16" drill bit for steel to drill eight holes through each square slot on the Connector.
B: Secure Connector to risers using four 1/4" bolts, nuts, washers, and spring washers.
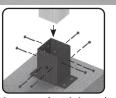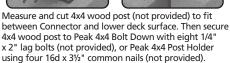**C:** Repeat steps 1-3 for all Connectors and risers.

4
9"

Determine the location of all risers and make sure the top tread support is 9" down from upper deck surface. Level each riser, then mark the two fastener locations on the deck rim, and one fastener location on the lower deck surface.
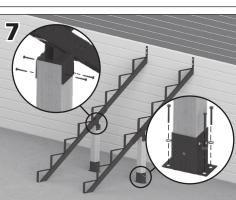
5
B
A

For SPF applications, drill 9/32" pilot holes at the three fastener locations and attach riser using 3/8" x 3-1/2" lag bolts (not provided). If lower deck is concrete, drill a 3/8" hole and attach riser using a 3/8" diameter x 2-1/2" concrete anchor (not provided). Attach riser first to lower deck surface (A) and then to deck rim (B).
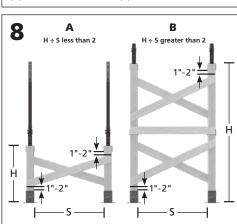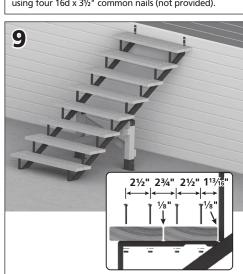
6

Measure and cut 4x4 wood post (not provided) to fit between Connector and lower deck surface. Then secure 4x4 wood post to Peak 4x4 Bolt Down with eight 1/4" x 2" lag bolts (not provided), or Peak 4x4 Post Holder using four 16d x 3½" common nails (not provided).

7
A
B

A: Secure 4x4 wood post to Connector using four #10 x 1½" screws (not provided).
B: For Peak Bolt Down only:
For SPF wood applications, secure to lower deck using four 3/8" x 3½" lag bolts (not provided).
For concrete applications, use four 3/8" concrete anchors (not provided) and follow manufacturers' installation instructions. Concrete strength must be 20 MPa (3000 psi) minimum.

8
A
H ÷ S less than 2
B
H ÷ S greater than 2
1"-2"
1"-2"
1"-2"
1"-2"
H
H
S
S

Measure and cut 2x4 wood braces (not provided). If post Height (H) divided by post Spacing (S) is less than 2, apply two braces according to diagram A (see above). Otherwise, apply five braces according to diagram B (see above). Use #10 x 2-1/2" screws (not provided) to secure wood braces with two screws at each connection. Ensure the wood braces are 1" – 2" away from the metal connectors at each end of the wood post.

9
2½" 2¾" 2½" 1¹³⁄₁₆"
⅛" ⅛"

Starting half way up, mark the fastener locations on the stair treads, then drill 1/4" holes at the marked locations. Install treads using 1/4" x 2" carriage bolts, nuts and washers (not provided). Repeat for all steps.