



Stair Riser Connector

Joins 4-Step, 5-Step or 6-Step Risers

Installation Instructions



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

⚠ WARNING Before beginning work, read and follow DETAILED instructions in this package or from www.peakproducts.com. Building codes may vary. Always understand and comply with your local building codes.

Before using this product, ensure foundation is suitable. Not suitable for all applications or any commercial use. Do not overload. Wear protective attire and eyewear. No member of The Peak Group of Companies (as defined at www.peakproducts.com) shall be liable for any loss or damage resulting from the improper installation or use of this product. In the unlikely event that any member of The Peak Group of Companies becomes liable for any loss or damage, the aggregate liability shall be limited to the retail purchase price of the product. Peak products and associated materials are protected by patents, designs, copyrights and/or trademarks used under license from Peak Innovations Inc.

Tools and Materials Needed

All applications:

- | | | |
|----------------------------------|------------------------------------|-------------------------|
| Hammer | Drill bits for metal: 5/16", 7/16" | 1/4"x 2" Carriage bolts |
| Measuring tape | 9/16" Hex Driver Bit | 1/4" Flat washers |
| Level | Wrench: 7/16", 9/16" | 1/4" Hex nuts |
| Drill | #10 x 1½" Wood screws | 2x6 Stair treads |
| Drill bits for wood: 9/32", 1/4" | 1/4" x 2" Lag bolts | 4x4 Posts |
| | 16d x 3½" Common nails | 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

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

B

C

Step

Top plate

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

A

B

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

B

H ÷ S less than 2

H ÷ S greater than 2

1"-2"

1"-2"

1"-2"

1"-2"

H

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"

1/₈"

1/₈"

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.