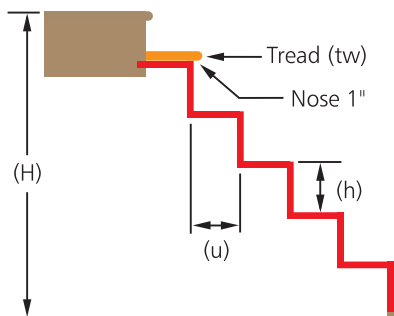


GoPro™ Universal Stair Bracket Installation Instructions



Calculate stair run and rise.

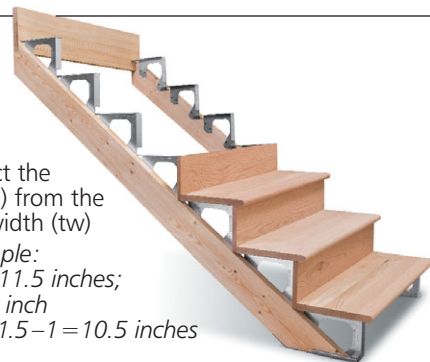
Measuring rise (h) and run (u)

Rise (h):

1. Divide by 7.5 the vertical distance between the two floors (H). Round up that value.
*Example: $H=44$ inches
 $44 \div 7.5 = 5.8$ round up to 6 risers*
2. Divide the stair rise (H) by the number of risers.
*Example: $H=44$ inches
 $h = 44 \div 6 = 7.33$ inches*

Run (u):

3. Subtract the nose (n) from the tread width (tw)
*Example:
 $tw = 11.5$ inches;
 $n = 1$ inch
 $u = 11.5 - 1 = 10.5$ inches*



1. Secure the first stair bracket at the top of a 2 x 6 stringer, using the pre-marked measurements corresponding to the calculated rise and run. Use two (2) #8 1 1/2" cone head wood screws in each leg of the bracket (four total per bracket). (Figure 1).



2. Attach a second universal stair bracket (same type) overlapping the previously installed bracket based on the same rise and run. (Figure 2)
3. Repeat these steps for the remaining brackets.



4. Mark a line on the last bracket and on the wood stringer parallel to the tread where the stringer will meet the floor, subtracting the thickness of one stair tread plus 1/8 inch (base stringer bracket thickness) from the calculated rise. (Figure 3)



5. Cut both the bracket and the stringer along that line. (Figure 4).



6. Using two #8 1 1/2" cone head wood screws, secure the stringer base bracket to the stringer as shown in (Figure 5). The head of the screws will face the floor and thus must be parallel to the metal.

7. With a hammer, bend the remaining part of the stringer base bracket against the stringer. Secure the bent section with two #8 1 1/2" cone head wood screws (Figure 5).

8. Cut the top bracket and the wood stringer perpendicular to the tread at the calculated run. (Figure 6).



9. Repeat steps (1) through (9) for the other stringer. If you used all left brackets on the first stringer, use all right brackets on the second (or vice versa).



10. Using the pre-drilled holes, secure the first two sets of steps and risers to both stringers. Use at least three screws to secure each stair tread to each bracket. (Note: Use glue between each wood-to-wood contact point and wood-to-steel contact point in order to reduce the risk of squeaking). (Figure 7).
11. Fasten the staircase to the floor through the stringer base bracket using 2 cone head wood screws to insure resistance to pull-out. **The entire horizontal length of the stringer base bracket must be in full contact with the floor.** (Figure 7). **Tip:** Use the holes closest to the bent section for better protection against tread warp.

12. Install the remaining steps and risers. Use glue as noted above. **Note:** In cases where the drywall is already installed under the staircase, screw down through the stair tread using metal-to-wood self-drilling screws to avoid stripping.

13. Install the false stringer.

IMPORTANT:

- Always wear gloves and eyes protection when installing GoPro products
- Code requirements 300 pounds
(See goproconstruction.com, website for more details)
- Allowable vertical download on each Universal Stair Bracket is 500 pounds
- Our brackets meet residential codes for load requirements and accommodate all slopes with rises from 6" to 8" and runs from 9" to 11.5"
- Always check with your local building inspector to make certain that any staircase you build meets code requirements.
- See the easy-to-use run/rise calculator on goproconstruction.com



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