

Three-Panel Wood Portable Skidder Bridge Heavy-Duty Design

Materials and Specifications for (One) Three-Panel Bridge

- ▶ Number 1 Eastern Hemlock
 - (18) 6" x 10" x 20'
 - (6) 6" x 10" x 16'
- ▶ (18) Threaded Rod 1" – 8 (coarse thread) x 4', cut and thread checked. (A-307 Rod)
- ▶ (36) USS Flat Washers, 1½"
- ▶ (36) USS Flat Washers, 1"
- ▶ (36) Hex Nuts, 1" – 8 GR 5
- ▶ (123) Flat-Head Log Cabin Screws
- ▶ (12) Steel Sleeves: Extra Strong Steel Pipe w/nominal diameter of 1½"; outside diameter = 1.9"; inside diameter = 1.5"; wall thickness = .200"; length = 6"

Bridge Assembly Instructions

1. Stagger knots when placing beams together.
2. Drill 1¼ inch diameter holes for the one-inch threaded rod. This will allow for clearance to pass the threaded rod through the beams.
3. Drill-hole locations on the 20-foot beams are at; 18, 59, 100, 141, 182 and 223 inches. Drill-hole locations on the 16-foot beams are at; 35, 76, 117 and 158 inches.
4. To increase rigidity, fasten beams together using 10-inch flat-head log cabin screws as shown in the schematic diagram. Counter-sink the screws.
5. Tighten threaded rods to 100 foot-pounds of torque.
6. A complete bridge requires three panels as illustrated in the schematic diagram.

Tools and Accessories

- ½ inch Industrial Grade Electric Drill (High-Torque, Variable Speed with Reverse)
- Saw-Tooth Self-Feed Bit (3 5/8 inch diameter)
- 18-inch Wood Auger Bit (1 ¼ inch diameter)
- Torque Wrench
- 1 ½ inch deep-well socket