

SITE ACCESS SOLUTIONS STEEL PANEL BRIDGE INSTALLATION



STEEL PANEL BRIDGES

ENGINEERED TO WITHSTAND THE RIGORS OF INSTALLATION

Our steel panel bridges are designed to accommodate crossings over waterways and other spanning applications from 20' - 60'. A standard 60' portable bridge covers a 50' span with 5' for the abutments on each end of the span.

Constructed in partial-width by full-length modular panels with guardrails and decks preinstalled, they efficiently pin or beam together in a matter of hours. Featuring tapered ends, heavy duty lifting rings, and additional reinforcing, they are designed to facilitate handling with excavation and forestry equipment.

Engineered to withstand the rigors of installation at multiple sites, they are also suitable for permanent installations.



SAFETY PROTOCOL

- Always use proper PPE: Steel-toe boots, hard hat, gloves and safety vest.
- Be aware and make note of unstable ground conditions and slip hazards.
- Always be aware of personnel and equipment location and movement.
- Locate overhead power lines, trees, and other potential obstacles or obstructions.
- Establish communication protocols with the crew.
- Be aware of other contractors' equipment and personnel at the site.



PORTABLE BRIDGE TRANSPORT

Depending on the size and weight of the bridge, the sections may be delivered on two flatbed trucks, or stacked on one truck. The middle (lightest) section is stacked on top of the two side panels.



ABUTMENT AND BEARING REQUIREMENTS

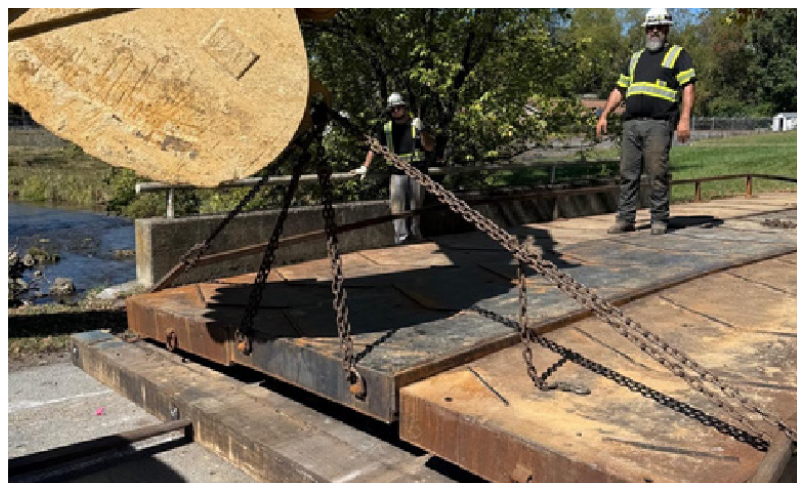
Abutment and bearing requirements are dependent on the stability of the stream banks and local soil conditions. It is the customer's responsibility to determine the appropriate level of analysis for their specific use. Simple abutments often utilized include timber crane mats and road plates.

Since bridges are typically used for temporary site access with limited traffic volume, most customers do not perform a formal analysis, but rely on their construction expertise to evaluate the abutment locations prior to installation.

Examples of bearing surfaces used successfully include:

- precast concrete blocks
- rock-filled gabion baskets
- crushed stone pads

They may also be placed on native ground. A minimum of 5' of solid contact with abutment supports is needed under each side of the bridge.



OFFLOADING THE BRIDGE / RIGGING

The bridge panels are skidded or dragged one panel at a time. Regardless of whether the bridge is being skidded or dragged, care should be taken to ensure the connection beams, boxes, and pins are not damaged during the process. A crane may also be used to lift the panels off the truck.

There are D rings located at each end of the bridge panels, as well as four D rings located on top of each bridge panel. These are the attachment points for rigging - whether picking up the bridge with a crane and setting it into place, or skidding it into position with an excavator. Never use the guardrail as a pick point.



SETTING THE BRIDGE AND PREPARING FOR BOLT-UP

Always set the center bridge section in place first. In preparation for bolt-up, set the two outside sections down over the pin of the connecting kit to hold the panels in place.



FOR THE HEAVY CONNECTION STYLE BRIDGES

- Start with panel #1 and set the panels in order by number. Be sure to make all panels align on the end.
- Next start with the middle crossbeam and slide it thru the boxes on the bottom.
- Apply ample amounts of grease to the beams to help them slide into place. These fit snugly so it may be hard to tap them into place.
- Work from the center towards the ends in both directions The cross beams are interchangeable.



RAMPING THE BRIDGE

For longer term installation, soil and stone ramps can be covered with a topping of asphalt. At the abutment or end bearing locations, or bridge access points, the change in elevation can be achieved with ramps.

Typical materials used for ramps include:

- Compacted soil
- Graded aggregate base
- Mulch
- Wood chips
- Crane mats



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