Portable Timber Bridge for Truck Traffic

T-Section Longitudinal Glued-Laminated Timber Bridge Deck Modules for longer-span portable bridge applications

Bridge Design Specifications

Bridge Application: Used by truck traffic in logging operations or other temporary bridge applications

Design Vehicle: AASHTO HS20 truck

Design Deflection Limitation: none

Curb / Rail Requirements: curb provided for delineation purposes only

Supplemental Wearing Surface: none

Bridge Material: prototype T-section glued-laminated timber modules, creosote preservative treatment

Bridge Length: 40 ft – 0 in.

Bridge Module Width: 6 ft – 0 in.

Bridge Module Depth: 19.125 in.

Installation Equipment: Excavators or similar construction or forestry equipment

Installation Time: Less than two hours

Installation Procedures: Excavators can pick up the modules using lifting eyes fabricated into the flanges; the modules can then be carried to the stream crossing and placed side by side on the stream banks. The modules are typically placed on spread footings to prevent settling into the soil. For most installations, cables should be used to secure the bridge modules to nearby trees or deadmen.


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