

LESSARD WELDING

SERVICE BRIDGES Modular Type

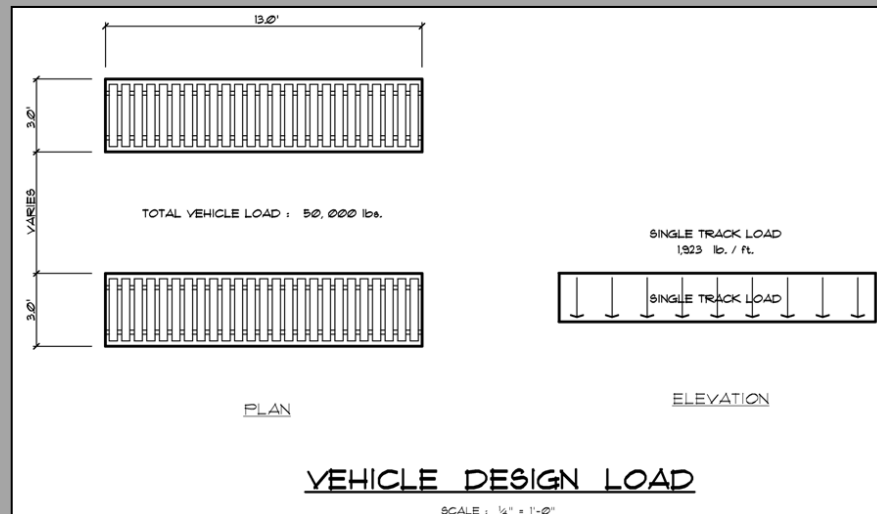


- 25 TON Capacity
- Designed to support a track machine weighing up to 50,000 lbs (some conditions apply)

INFORMATION GUIDE

What are these service bridges designed and certified for?

Our service bridges have a 25 TON capacity and are designed to support a track machine weighing up to 50,000 lbs (some conditions apply). See diagram below for the vehicle configuration. They are ideal for log skidders or feller bunchers, temporary equipment crossings, mineral exploration equipment and emergency equipment access. A minimum of two service bridge pads must be installed to meet the 25 ton capacity. You may not use one single service bridge pad as a certified crossing.

***Can these service bridges be used for temporary and/or permanent applications?***

This product is intended to provide temporary access across water crossings by construction equipment, skidders and feller bunchers. Our service bridges are not intended to be used as a permanent bridge

What do I need to know about the bridge substructure (abutments/cribbing)?

To carry the design vehicle loads, each end of our service bridges must be supported by a substructure providing continuous support. Our square end service bridges require a minimum of 12" of continuous support whereas our tapered services bridges require a minimum of 30" of continuous support. Under no circumstances are our service bridges intended to be placed on native soil without substructure support.

How does the Lessard Service Bridge's design make life easier?

a) SAFE AND DURABLE DESIGN



The Lessard Service Bridges are professionally designed with safety in mind. Our heavy-duty design consists of 2 separate sections (or 3 sections if you prefer); each having two girders per section. The inside of the girders is reinforced with diaphragms that provide lateral support to steel stringer beams during loading. Bridge decking consists of a 1/4" thick steel checker plate that is supported across all steel stringers by structural channels at 12" (300 mm) centers. The channel reinforcing prevents checker plate deformation and distributes vehicle loads across each steel stringer. All structural steel used in Lessard

Welding bridges is certified to be NEW.

b) SIZE AVAILABILITY AND LOW PROFILE

We offer the following bridge spans together with a low structure profile that are easier to transport, handle and install. Each section measures 4 ft. wide.

Superstructure	20 ft.	25 ft.	30 ft.	20 ft.	25 ft.
Ends	Square	Square	Square	Tapered	Tapered
Height	18"	18"	22"	18"	18"
Actual Length (tip to tip)	20' 5 1/2"	25' 5 1/2"	30' 5 1/2"	20' 0"	25' 0"

c) TAPERED OR SQUARE ENDS

Our bridges are manufactured with either a tapered or square end. I need pictures here.



d) STEEL CHECKER PLATE DECKING



Lessard Service Bridges are shipped complete with a 1/4" pre-welded steel checker plate deck. Compared to a timber deck, a steel deck offers significant savings on maintenance (labor and wood) over the lifecycle of the bridge.

e) HIGH PERFORMANCE COATING AND ANTI-SLIP SURFACE

To ensure proper adhesion of paint and non-slip coatings, all main stringer beams are cleaned and shot blasted in accordance with SSPC-SP 6 industry standard. We also apply a high-performance red oxide primer to the entire structure including underneath the bridge. In addition, as part of the painting process, a dense grit product is added that helps prevent workers from slipping and falling during construction and provides additional tire traction after installation.



If the bridge is to be installed in a corrosive (mining, mineral processing) environment other additional protective coating options should be considered. We are prepared to work with clients on a one-on-one basis to determine the coating options available to meet their needs.

f) DECKING

Our service bridge decking is designed to ensure a level and uniform surface between bridge sections especially for the three service bridge pad applications.

Our tapered end service bridges provide a traction positive surface (using small bar welded to deck) for equipment walking onto or off the bridge



g) PULLING AND LIFTING LUGS



Pulling and Lifting Lugs are pre-welded all around the perimeter of each service bridge pad. These are extremely handy for maneuvering the bridge sections into place.



h) ANCHORS



These anchors help to prevent the service bridge pads from sliding or moving while the machinery climbs onto the service bridge pad.

i) STRUCTURAL GRADE BOLTS



These are included with every bridge. Light oil or a product like "Never Seize" should be applied to the bolts during installation to ensure long term maintenance.

j) EASY TO INSTALL OR REMOVE

Two Service Bridge Pad Installation



Each service bridge pad is separated by the same distance that exists in between the machinery's tracks or wheels. This type of installation requires (2) tie down spacer bars to secure both sections in a safe position. This is the most popular type of installation.



Three Service Bridge Pad Installation



This installation consists of three service bridge pads installed side by side to provide a 12 ft. wide surface. This procedure is mostly used for skidding. This type of installation does not require any tie down spacer bars.

Bridge Specifications

Dimensions and Weight per Section				
Bridge Span	Actual Length (from tip to tip)	Width	Height	Weight
20 ft. Square	20' 5 1/2"	4'	18"	2 500 lbs
25 ft. Square	25' 5 1/2"	4'	18"	3 000 lbs
30 ft. Square	30' 5 1/2"	4'	22"	5 300 lbs
20 ft. Tapered	20' 0"	4'	18"	2 500 lbs
25 ft. Tapered	25' 0"	4'	18"	3 000 lbs

k) PRE-ASSEMBLED IN SHOP



As part of the fabrication process and quality control, our service bridges are shop assembled before shipping to ensure each section is an exact match and that assembly in the field is hassle free.

l) UNIQUE IDENTIFICATION NUMBER

Every Lessard Service Bridge has its own unique identification number for easy record keeping purposes. During fabrication, an identification plate is welded to the outside stringers of each bridge section. The ID plate provides a unique bridge identification number, the section no. and the weight of the bridge section. We maintain an up to date database for all fabricated bridges and can provide owners and customers of fabrication dates, original purchaser, date of purchase and other related information.

m) INTERNAL QUALITY CONTROL INSPECTION

In accordance with our high-quality control standards, every bridge fabricated by Lessard Welding is thoroughly inspected to ensure completeness and adequacy of fabrication in accordance with the sealed drawings.

n) BRIDGE DOCUMENTATION

Customers receive Sealed General Arrangement Drawing that provides basic measurements and assembly information for the product purchased.

Does Lessard offer technical support?

Yes, we do. This is a value-added service that we offer to our customers. After a lengthy career with the Ministry of Natural Resources and Forestry - Engineering Services Section, Tim Lee joined Lessard Welding. Tim brings with him a wealth of experience having installed over 145 bridges, construction and maintenance of hundreds of kilometers of forest access roads, multiple dam reconstructions and many facility developments in support of MNRF aviation, forest fire fighting, fisheries and forest resources. Tim was also a designated regulator.

Mr. Tim Lee's Contact Information

Email: tim@lessardwelding.com

Cell: 705-644-3976

a) COMPLIMENTARY SERVICES – Free of charge

Our customers receive technical advice from our expert support staff related to the following:

- Logistics involved with bridge installations, road construction and maintenance
- Bridge superstructure span selection and hydrology
- MNRF/DFO approvals process
- Simple crossings in assembling complete information packages to obtain approvals – thereby speeding up the review time by various agencies involved

b) PREMIUM SERVICES – Details available upon request

In addition to the services identified above, Lessard Welding is now able to offer the following premium services to our valued customers on a fee for service basis:

- Field training related to visual inspections of bridges and inventory management
- Road maintenance and construction training
- Engineering and project management services

What are the upgrades or options available to purchase with our service bridges?

All the following upgrades or options come at an extra cost, we would be more than happy to provide you with a cost estimate upon your request.

a) POST POCKETS

Post pockets may be requested as an option should you require them.

b) ON-SITE SUPPORT

Customers may request the assistance of our bridge expert on the day of installation. This would be to ensure compliance with design criteria. Insurance limitations prevent physical labor by onsite technical staff.

c) BRIDGE DELIVERY

Shipping costs are NOT included in the price of our bridges, but delivery is available for an additional cost. Special MTO permits may be required depending on the bridge dimensions.

If you are PICKING UP your bridge...

- You will need to inform us ahead of time of the date and time you plan on picking up your bridge as we may need to make special lifting arrangements to load the bridges.
- Flatbed trailers are the preferred type of trailer for us to load your bridges. If you don't plan on using a flatbed trailer, we will likely encounter loading challenges and therefore you must communicate with us prior to the shipping date to discuss your plan, otherwise you may risk the possibility of NOT getting loaded at all or having to wait for a crane to come on site which could lead to a loading charge of approximately 1000\$.
- Uneven deck type trailers such as goose necks are acceptable but must be equipped with blocks to level off the loaded bridge.
- Logging trailers with pickets are acceptable, however, please note, that pickets will need to be removed by the driver on the one side. Please note that you may not be able to put the pickets back into place afterwards due to where the bridge pockets line up on the trailer.
- Please know that it is possible to ship more than one bridge on one truck depending on the quantity and spans ordered.

If WE ARE SHIPPING your bridge...

- You will need to inform us ahead of time of the date and time delivery is required.
- You will need to send us by email a site address, map or driving instructions as well as a site contact.
- Please know that it is possible to ship more than one bridge on one truck depending on the quantity and spans ordered.

What are the maintenance requirements?

Simple maintenance can dramatically extend the lifespan of a Lessard Portable Bridge. Recommended maintenance activities include the following:

- Routine visual inspections to confirm that the bridge is fully supported at each end by a level and sound substructure.
- Removing gravel buildup on the steel deck and bearing seats. Gravel by itself is abrasive to painted surfaces and in larger volumes can retain water that will accelerate surface rust.
- Store service bridges horizontally and elevate them on blocks. The blocking will ensure that the bridge stringers do not come in direct contact with standing water.
- Use only the lifting locations identified to move a service bridge. Lifting at other locations may damage flanges, decking and guard rail pockets.
- Power wash service bridges in storage to remove accumulated soil materials.
- Store smaller service bridge parts (bolts, washers, nuts and plates) in an interior location.
- Greasing or oiling all bolts, washers and nuts is advisable.
- Periodic sandblasting and painting of service bridges in storage is also advisable.
- Maintain a bridge file with original bridge drawings and update with maintenance records.

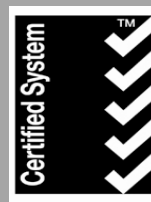
What kind of experience does Lessard Welding have?

Established in 1974, Lessard Welding has **over 40 years of experience**, the expertise and the resources to deliver a wide range of high quality welding products - including bridges. There are over 600 Lessard Bridges currently in service in North America. We also provide custom welding services and products to the mining industry.

We are family owned and operated with a reputation that matches our experience. We also offer bilingual services - from ordering products to continued technical support.

What certifications does Lessard Welding have?

Premier Fabrication Standards and Quality Control are built into every Lessard Portable Bridge Superstructure. Lessard Welding is certified to CSA Standard W47.1 in Division 2 by the Canadian Welding Bureau and maintains a superior Quality Management System which complies with the requirements of the ISO 9001:2015 standards.



ISO 9001
QMI-SAI Global
001723

Contact Information

If you have any other questions, please feel free to communicate with us at any time!

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