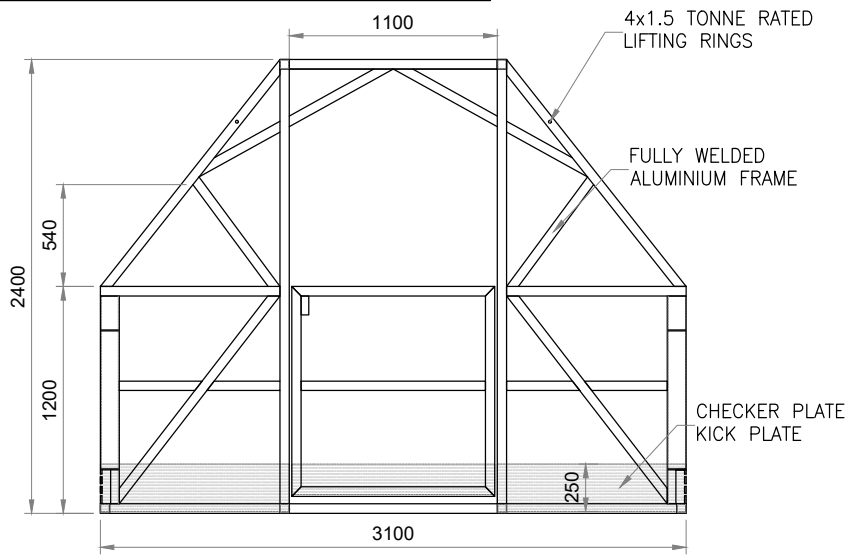


TECHNICAL DATA

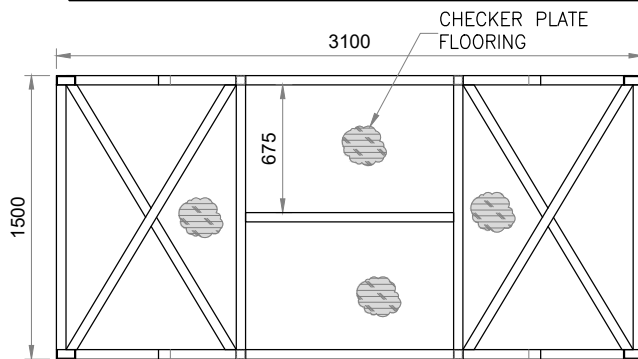
Introduction

Shore Hire has developed a modular aluminium bridge for lengths from 1m - 9.1m. There are 1 metre modular sections that bolt on to each end to give you the desired length. The bridge is made of lightweight aluminium and can be lifted into place from the lifting points in the centre of the frame or via slinging and chocking around the units by a competent rigging crew. There are two self-closing gates within the aluminium bridge so that a stair or ladder access point can be set up for access into an excavation below. The modular aluminium bridge is the perfect product when you need access or visibility from above your excavation or manhole. The bridge is 1.5 metre wide and is for pedestrian access only. The bridge has a rated capacity of 2.5 kPa and a concentrated load of 1kN at any point.

CENTRAL BRIDGE COMPONENT

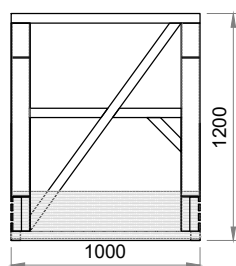


ELEVATION - CENTRAL COMPONENT

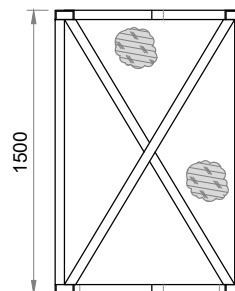


PLAN - CENTRAL COMPONENT

1M BRIDGE COMPONENT



ELEVATION - 1M SECTION



PLAN - 1M SECTION

NOTES

- All dimensions in mm U.N.O.
- Aluminium Material is to be grade 6005-T5 and 6082-T5 in accordance with Australian Standards AS 1664.1-1997.
- Aluminium welding to be MIG Wire type welding ES356 to AS 2712.2.
- Strength limit state design of aluminium material is in accordance with Australian Standard AS 1664 - Aluminum structures limit state design.
- Load capacity is rated to:
 - 2.5kPa and,
 - A concentrated load of 1kN at any point.
 in compliance with:
 - AS/NZS 1170 - Structural Design Actions Parts 0 to 4 Inclusive
 - AS 1657 - Fixed Platforms, Walkways, Stairways and Ladders
 - AS 1664 - Aluminium Structures
- All pin material to be high Tensile Steel typed 4140.
- Lifting point swivel rings are rated at 1.5 tonnes in accordance with Australian Standard AS 3776 - Lifting Components for Grade T(80) & V(100) chain slings.

TECHNICAL DATA

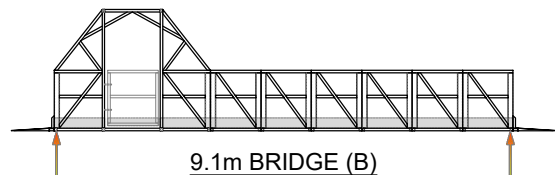
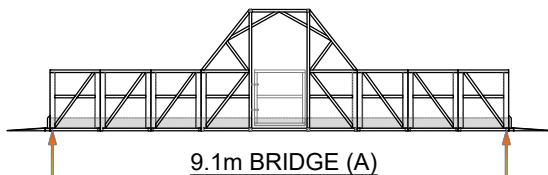
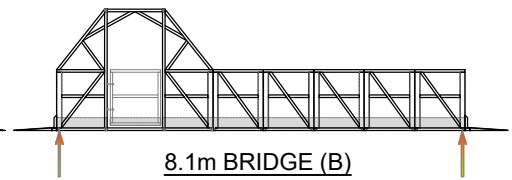
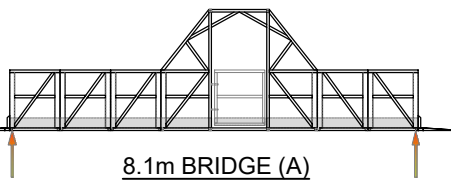
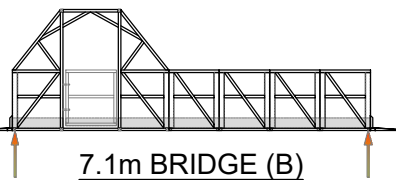
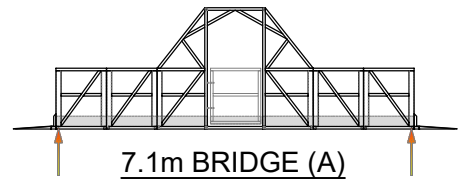
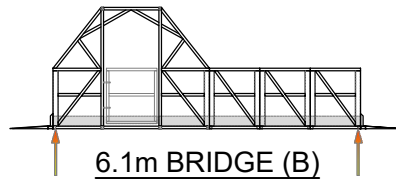
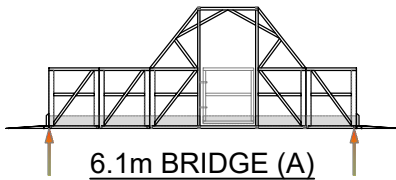
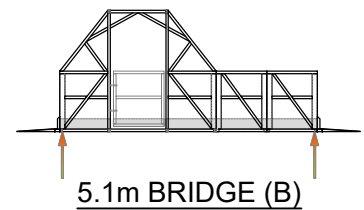
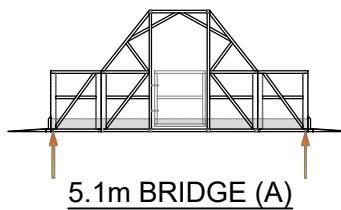
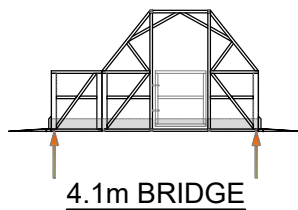
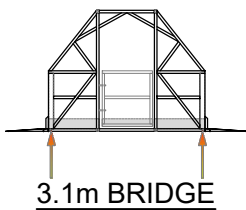
MODULAR BRIDGE SPAN TABLE

MODULAR ALUMINIUM BRIDGE					
LENGTH	WIDTH	LOAD TYPE	MAX SPAN	WEIGHT (KG) WITHOUT RAMPS	WEIGHT (KG) WITH RAMPS
1m	1.5m	PEDESTRIAN	0.5m	60kg	110kg
2m	1.5m	PEDESTRIAN	1.5m	120kg	170kg
3.1m	1.5m	PEDESTRIAN	2.5m	210kg*	260kg*
4.1m	1.5m	PEDESTRIAN	3.5m	270kg*	330kg*
5.1m	1.5m	PEDESTRIAN	4.5m	330kg*	380kg*
6.1m	1.5m	PEDESTRIAN	5.5m	390kg*	440kg*
7.1m	1.5m	PEDESTRIAN	6.5m	450kg*	500kg*
8.1m	1.5m	PEDESTRIAN	7.5m	510kg*	580kg*
9.1m	1.5m	PEDESTRIAN	8.5m	570kg*	620kg*

* INCLUDES THE 3m CENTRAL COMPONENT SECTION

** USE TABLE ABOVE TO COMPILE COMBINED WEIGHTS OF ALTERNATIVE ARRANGEMENTS

BRIDGE CONFIGURATION OPTIONS WITH 3m CENTRAL COMPONENT



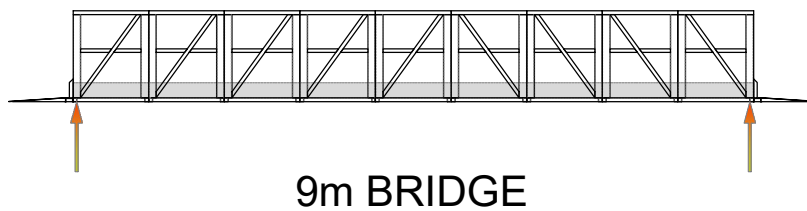
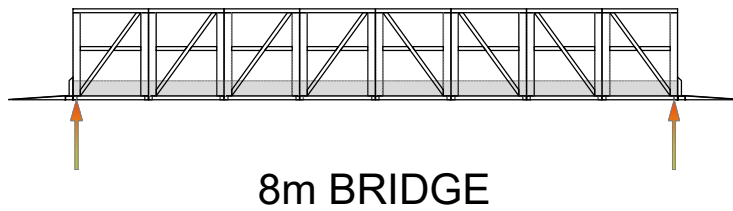
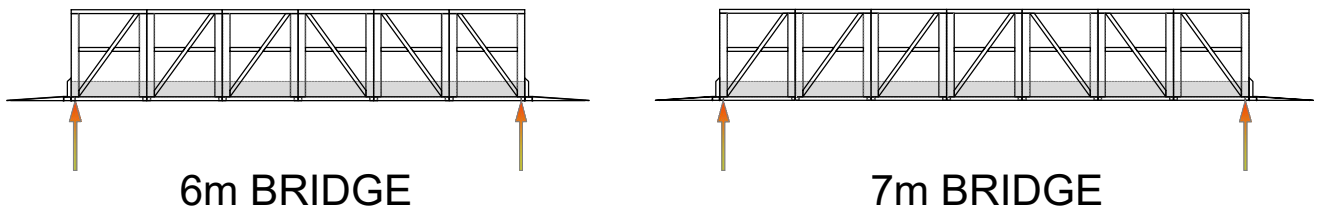
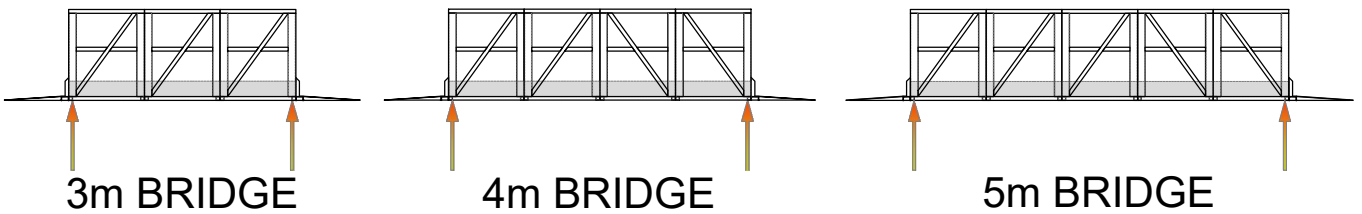
TECHNICAL DATA

MODULAR BRIDGE SPAN TABLE WITHOUT 3m CENTRAL COMPONENT

MODULAR ALUMINIUM BRIDGE					
LENGTH	WIDTH	LOAD TYPE	MAX SPAN	WEIGHT (KG) WITHOUT RAMPS	WEIGHT (KG) WITH RAMPS
1m	1.5m	PEDESTRIAN	0.5m	60kg	110kg
2m	1.5m	PEDESTRIAN	1.5m	120g	170kg
3m	1.5m	PEDESTRIAN	2.5m	180kg	230kg
4m	1.5m	PEDESTRIAN	3.5m	240kg	290kg
5m	1.5m	PEDESTRIAN	4.5m	300kg	350kg
6m	1.5m	PEDESTRIAN	5.5m	360kg	410kg
7m	1.5m	PEDESTRIAN	6.5m	420kg	470kg
8m	1.5m	PEDESTRIAN	7.5m	480kg	530kg
9m	1.5m	PEDESTRIAN	8.5m	540kg	590kg

** USE TABLE ABOVE TO COMPILE COMBINED WEIGHTS OF ALTERNATIVE ARRANGEMENTS

BRIDGE CONFIGURATION OPTIONS WITHOUT 3m CENTRAL COMPONENT



TECH DATA REF: PEDESTRIAN TRAFFIC

PRODUCT: ALUMINIUM BRIDGE

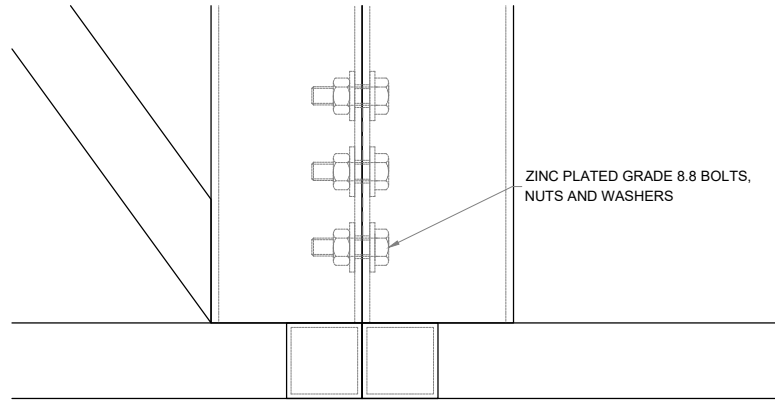
REFERENCE: TDT03-PAGE 4

shorehire.

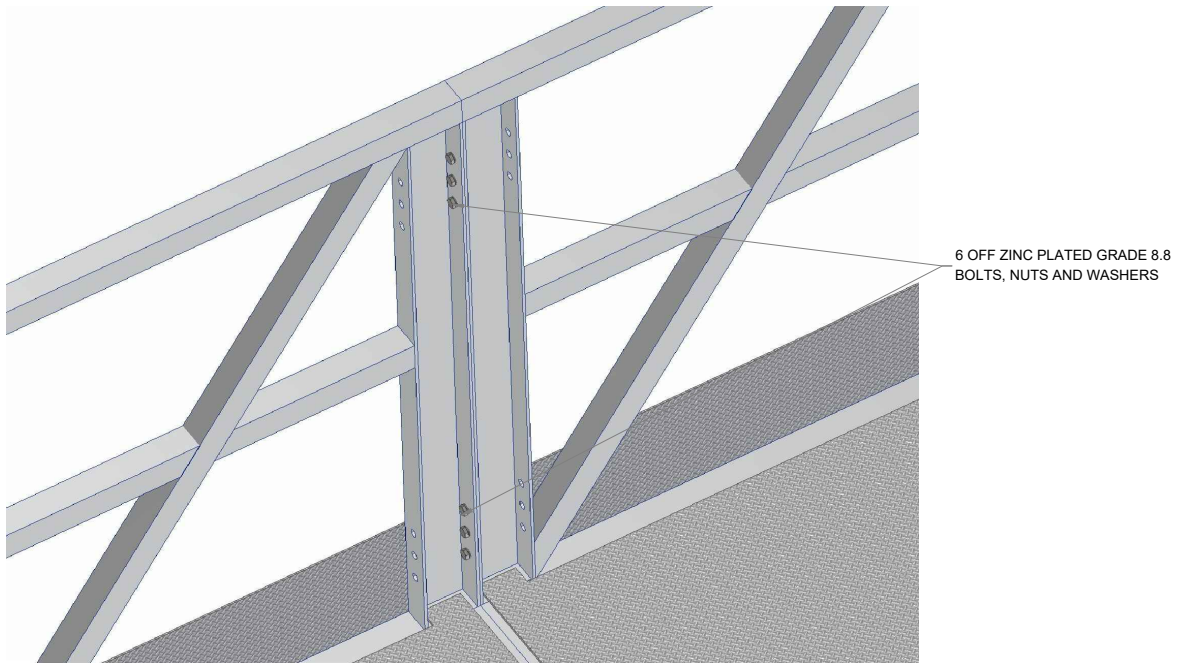
Shore Hire Pty. Ltd.
PO Box CP449
354 Edgar Street
Condell Park
NSW 2200
Tel: 02 8708 1200
Fax: 02 87081222
Email: info@shorehire.com.au
Web: www.shorehire.com.au

TECHNICAL DATA

CONNECTION DETAILS

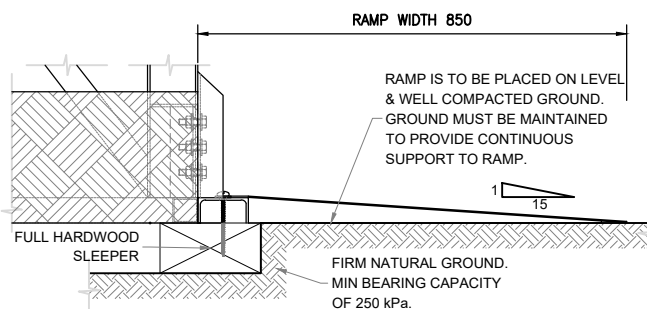


DETAIL NO. 1 - CONNECTION DETAILS

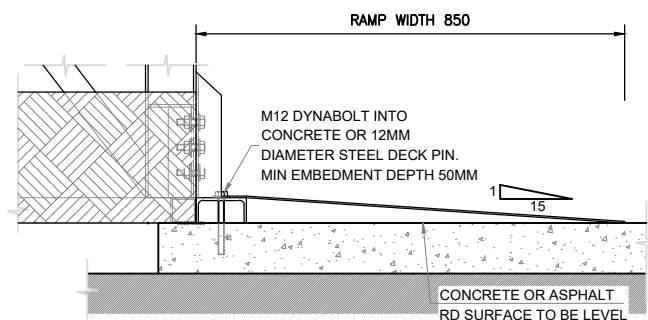


3D VIEW - CONNECTION DETAILS

END BEARING DETAIL OPTIONS



DETAIL NO. 2 - FIRM SOIL SUPPORT



DETAIL NO. 3 - CONCRETE SLAB/ASPHALT

TECH DATA REF: PEDESTRIAN TRAFFIC

PRODUCT: ALUMINIUM BRIDGE

REFERENCE: TDT03-PAGE 5

shorehire.

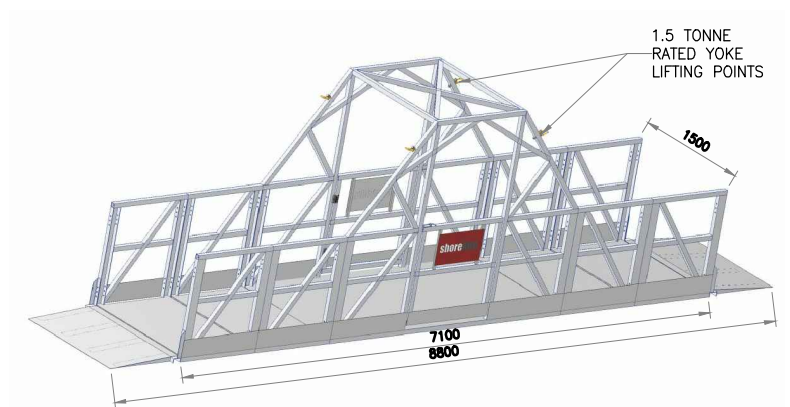
Shore Hire Pty. Ltd.
PO Box CP449
354 Edgar Street
Condell Park
NSW 2200
Tel: 02 8708 1200
Fax: 02 87081222
Email: info@shorehire.com.au
Web: www.shorehire.com.au

TECHNICAL DATA

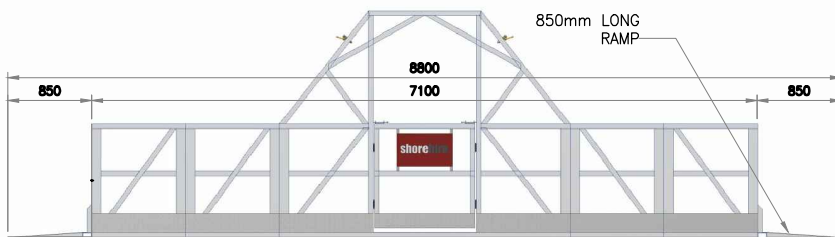
BRIDGE 3D VIEW (7.1m BRIDGE (A) EXAMPLE)



3D VIEW - BOTTOM



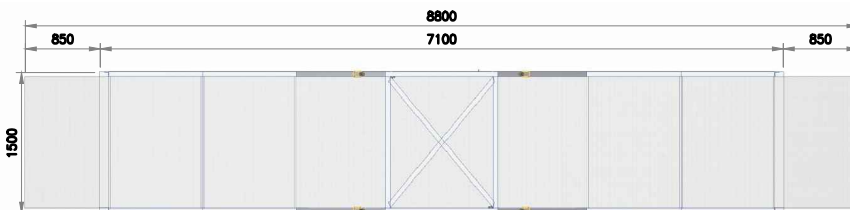
3D VIEW - SIDE



3D VIEW - ELEVATION



3D VIEW - SECTION



3D VIEW - PLAN

TECHNICAL DATA

LIFTING OF ALUMINIUM BRIDGE CONFIGURATION



Acceptable Lifting Techniques

The modular aluminium bridge can be lifted in one of 2 ways; via the 4 x rated lifting points on the 3m long section or via choking chains around the section where the configuration dictates an imbalance of load or where the 3m section is not being utilised.

Utilisation of the lifting points is acceptable where the 3m section is central within the configuration and a competent Advanced Rigging crew are tasked with with rigging and slewing the chains to account for imbalance of load. Refer to options A and B as examples.

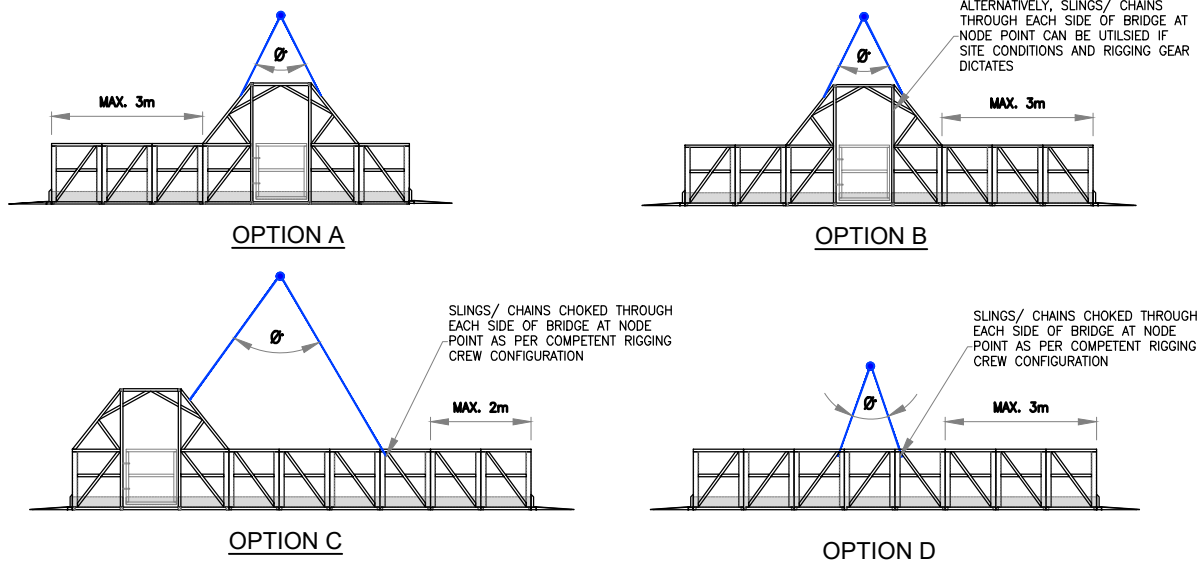
Utilisation of a firmly secured sling/ chain around the structural body of the modular section and choking in such a way that support is provided by the node point junction is also an acceptable means of lifting a configuration. Examples of same are outlined in option C.

When lifting a configuration without a 3m section, choking via slings and chains is the recommended means of lifting the configuration. Refer to option D for guidance.

In all cases, a competent rigging crew and dogman should be tasked with this exercise in all cases.

Lifting Point Inspection Procedure

On return of hire, the lifting point is visually inspected in accordance with the associated Return Inspection Procedure and tagged for re-use.



TECH DATA REF: PEDESTRIAN TRAFFIC

PRODUCT: ALUMINIUM BRIDGE

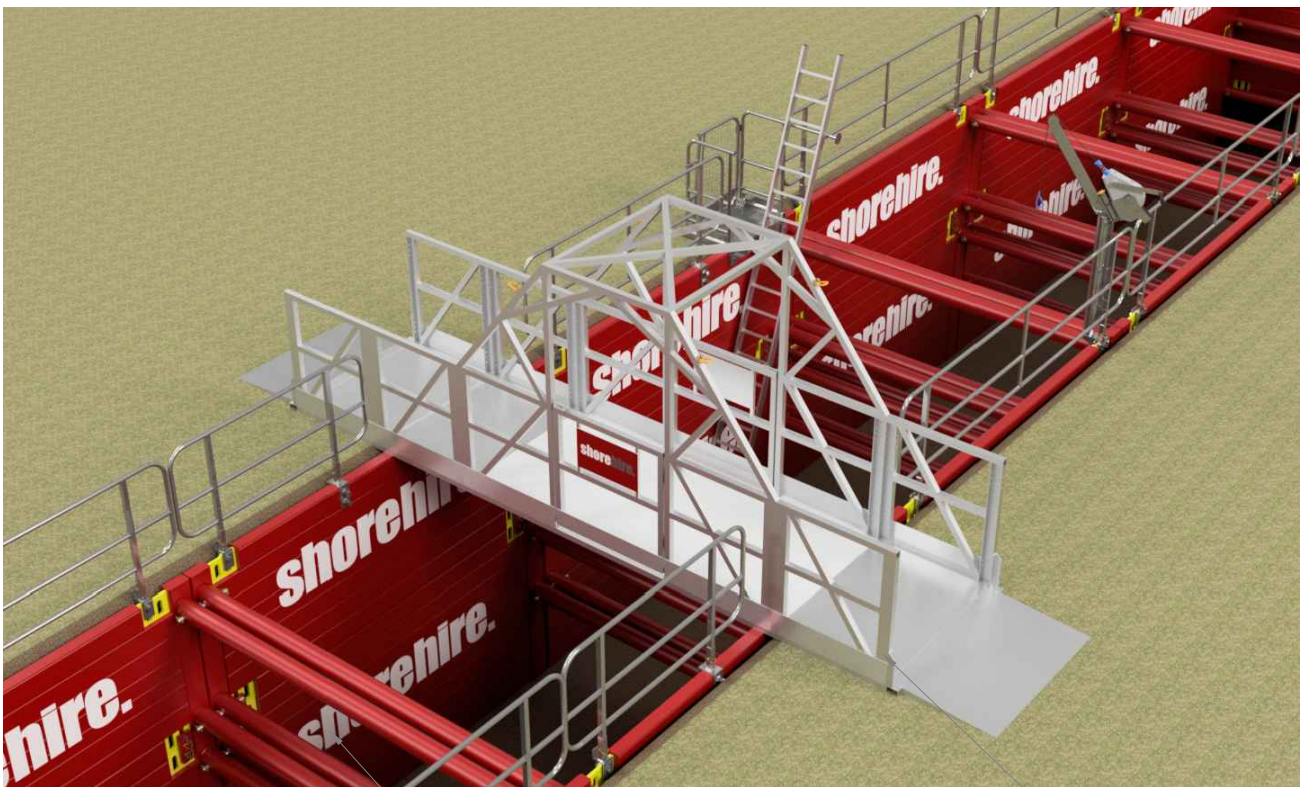
REFERENCE: TDT03-PAGE 7

shorehire.

Shore Hire Pty. Ltd.
PO Box CP449
354 Edgar Street
Condell Park
NSW 2200
Tel: 02 8708 1200
Fax: 02 87081222
Email: info@shorehire.com.au
Web: www.shorehire.com.au

TECHNICAL DATA

BRIDGE 3D VIEW (DESIGN EXAMPLE ON SITE)



SHOREHIRE
TRENCH BOXES

SHOREHIRE MODULAR
ALUMINIUM BRIDGE

Aluminium Bridge Applications

There are many applications that the aluminium bridge can be configured to and Shore Hire can provide professional advice and temporary works design, 3D imaging to best reflect the application and needs of the customer on site.

Advice can be sought from your local Shore Hire branch, who can facilitate a technical representative to further enhance a solution if required.