

Introduction

ShoreWorX shoring solutions are designed with the Australian market in mind. As you would expect from an Australian owned company with Australian manufactured products, we understand the need for superior quality, safety, dependability and durability. We have an outstanding reputation for delivering safe, reliable and efficient shoring solutions.

Structural Design Certificate

Panel Type (mm)	Panel Length (mm)	Panel Height (mm)	Panel Thickness (mm)	Min. width (mm)	Max. width (mm)	RHS Strut- 600mm- 2200mm	WLL- Triangular load/uniform load (kPa)	Weight (kg per panel)
Manhole-Lower	2400	2400	90	1200	4000	RHS 150X100X9	103/70	439

This design check has been carried out in accordance with Australian engineering principles and, in particular with the Australian Standards listed below:

AS/NZS 1664 – 1997 Aluminium Structures

AS 4744.1 – 2025 Shoring and trench lining – Design

AS/NZS 1170.0:2002 Structural design actions: General principles

AS/NZS 1170.1:2002 Structural design actions: Permanent, imposed and other actions

Certified by,

Gagandeep Singh

Gagandeep Singh

BEng, MEng, MIEAust, CPEng, NER (4681624), RPEQ 32858, RPEV PE0018102

Registered Professional Engineer NSW - PRE0002818

Engineer Design Specialist

ShoreWorX

ACN: 670 491 040



Design Certification: Lifting points

To Whom It May Concern:

ShoreWorX has conducted a structural design check on the lifting / handling points for the Manhole- Lower x 2400 x 2400 x 90mm shoring panels. They been reviewed, tested, and comply with AS4991-2024, AS1418.1-2002.

Design Criteria

- **Load Capacity:**
 - The design ensures that each lifting / handling point on the LI-90 panel is capable of handling a maximum Working Load Limit (WLL) of 6 tonnes, or 24 tonnes when utilising four lifting points.
 - Safety factor: **3** in accordance with AS 4991-2004- Lifting Devices.
- **Design Standards:**
 - Complies with
 - **AS4991-2004** Lifting Devices
 - **AS1418.1-2002** Crane, Hoists and Winches.

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