

# ALUMINIUM MANHOLE BOX



**SHORE HIRE'S MANHOLE ALUMINIUM SHORING BOXES ARE AN INCREDIBLY VERSATILE AND SAFE TRENCH SHORING SYSTEM FOR GENERAL CONSTRUCTION AND UTILITIES CONTRACTORS.**

## ALUMINIUM MANHOLE SHORING BOX SPECIFICATIONS

Description	Dimension
Length	2200mm
Height	2150mm
Minimum Width Internal	1420mm
Maximum Width Internal	3350mm
Panel Weight	283kg
Panel Thickness	63mm
Under Strut Clearance	650mm
Working Load Limit	20kPa

## STRUT SPECIFICATIONS

Strut Type	Weight	Internal Closed	Internal Open	External Closed	External Open
Strut 0	8kg	1430mm	1540mm	1710mm	1810mm
Strut 1	10.3kg	1640mm	1890mm	1920mm	1170mm
Strut 2	12kg	1790mm	2200mm	2070mm	2490mm
Strut 3	15.8kg	2100mm	2900mm	2370mm	3170mm
Strut 4	19.7kg	2790mm	3340mm	3070mm	3620mm

Note: Specifications are approximate.

## FEATURES

- Lightweight so that you can save on machinery and operational costs
- Versatile with various strut sizes, so that whatever the job requires, Shore Hire has the option to suit
- Equipped with a Four Point Lifting System for easier and safer installs
- Working pressures of 20kPa to allow for a number of ground conditions
- High-strength Aluminium construction for the most robust aluminium design possible
- End plates available, so you can fully enclose the shoring system
- Easy to assemble and options for Shore Hire to pre-build where possible to save you as much time and money as possible on site
- Manufactured & Certified AS 4744.1-2000 so you know that every safety checkbox is ticked when you use our products
- Internal working widths 1.4m – 3.3m to allow for a range of applications
- Compatible with Edge Safe Protection Range for even more safety options

# ALUMINIUM SHORING SHIELDS



**ALUMINIUM SHORING SHIELDS ARE DESIGNED TO SAFELY AND EFFECTIVELY SUPPORT TRENCHES WHEN USING SMALLER EXCAVATORS AND BACKHOES.**

## FEATURES

- Lightweight
- Installed by small excavators and backhoes
- Adjustable steel speed struts
- Foam-filled, high yield, aluminium panels for strength
- Smoothwall panels reduces friction for removal
- High under-strut clearance
- Certified to Australian Standards

Aluminium Smoothwall Shoring Shields are an innovative development incorporating the many benefits of traditional aluminium shoring with the solid wall security of high strength extruded aluminium sections.

Due to their lightweight and robust design, the Aluminium Smoothwall Shoring Shield system is ideal for municipal maintenance, small utility installations and pipeline repairs. A backhoe or a small excavator can handle the shields, so this is an advantage over heavier steel trench boxes.

The static speed struts allow for easy width adjustments with pin spacings every 100mm, and the heavy-duty lifting eyes assist in easy installation and removal.

We also offer Trench Sheet Brackets to connect to the end of smoothwall shoring boxes, these brackets allow for easy installation of sheets as end shoring to create a fully enclosed system.

## STRUT OPERATION RANGE

Struts	Weight	Strut Range
ST 950	25kg	400–710mm
ST 1450	36kg	710–1210mm
ST 2300	52kg	1160–2060mm

## STRUT SPECIFICATIONS

Strut Type	Weight	Internal Closed	Internal Open	External Closed	External Open
Strut 0	8kg	1430mm	1540mm	1710mm	1810mm
Strut 1	10.3kg	1640mm	1890mm	1920mm	1170mm
Strut 2	12kg	1790mm	2200mm	2070mm	2490mm
Strut 3	15.8kg	2100mm	2900mm	2370mm	3170mm
Strut 4	19.7kg	2790mm	3340mm	3070mm	3620mm

Note: Specifications are approximate.

# ALUMINIUM SHORING SHIELDS



## SMOOTHWALL ALUMINIUM SHORING SHIELD SPECIFICATIONS

	1.8m x 1.8m	1.8m x 2.4m	2.4m x 2.4m	2.4m x 3.0m
Height	1840mm	1840mm	2450mm	2450mm
Length	1840mm	2450mm	2450mm	3050mm
Internal Width to Walers	400–2060mm	400–2060mm	400–2060mm	400–2060mm
External Width of Panels	790–2450mm	790–2450mm	790–2450mm	790–2450mm
<b>STRUT RANGE</b>	ST 950 – Internal Width to Walers	400–710mm	400–710mm	400–710mm
	ST 950 – Internal Width to Panels	640–950mm	640–950mm	640–950mm
	ST 950 – External Width to Panels	790–1100mm	790–1100mm	790–1100mm
	ST 1450 – Internal Width to Walers	710–1210mm	710–1210mm	710–1210mm
	ST 1450 – Internal Width to Panels	950–1450mm	950–1450mm	950–1450mm
	ST 1450 – External Width to Panels	1100–1600mm	1100–1600mm	1100–1600mm
	ST 2300 – Internal Width to Walers	1160–2060mm	1160–2060mm	1160–2060mm
	ST 2300 – Internal Width to Panels	1400–2300mm	1400–2300mm	1400–2300mm
	ST 2300 – External Width to Panels	1550–2450mm	1550–2450mm	1550–2450mm
Clearance Between Struts	1320mm	1930mm	1930mm	2530mm
Clearance Under Bottom Strut	815mm	815mm	1195mm	1195mm
Weight With ST 950 Struts	425kg	525kg	615kg	850kg
Panel Thickness	75mm	75mm	75mm	75mm
Working Load Limit	48kPa	33kPa	23kPa	21kPa

Note: Specifications are approximate.

## SHORE 4.2m-35 ALUMINIUM TRENCH BOX



**THE SHORE 4.2m-35 ALUMINIUM TRENCH BOX PROVIDES THE PERFECT BALANCE OF BEING LIGHTWEIGHT, STRONG, AND TOUGH TO ALLOW SMALLER EXCAVATORS TO HANDLE REALLY DIFFICULT PIPELINE PROJECTS.**

With a 100mm wall thickness, the 4.2m-35 Aluminium Trench Box allows for narrower trenches in tight projects, meaning that less bedding material is required, which converts to real savings on the majority of pipeline projects.

The Shore 4.2m-35 lower unit has a knife edge, giving the contractor the choice of using either the Dig & Place or Dig & Push installation method, so no matter what kind of ground you're installing the trench box in, you're covered. The sides of the trench box also "toe-out", meaning they're designed to be slightly slanted inwards, making them even easier to install.

If you need extra depth, you can use the 1.86m upper unit as a top extension, or as a trench box, as it has an under strut clearance of 860mm.

The Shore 4.2mm Aluminium Trench Box is designed to be used to support trenches that are any depth, provided the working load limit of 35kPa is not exceeded.



# SHORE 4.2m-35 ALUMINIUM TRENCH BOX



## FEATURES

- Foam filled to reduce waterlogging
- 100mm thick walls
- Reinforced top plate
- Four Point Lifting System
- High-strength aluminium construction
- The ability to use the upper unit as a top extension or as a stand-alone shore box
- End panels available
- Manufactured to Australian Standards
- Compatible with 141 Struts and Edge Safe Protection
- Sides that “toe out” for easy Dig & Push installation method
- Knife-edged bottom lip

## SHORE 4.2m-35 ALUMINIUM TRENCH BOX SPECIFICATIONS

Specification	Base	Top
Length	4250mm	4250mm
Height	2440mm	1860mm
Min Width Internal	860mm	860mm
Max Width Internal (without engineering)	4260mm	4260mm
Clearance Between Struts	3700mm	3700mm
Clearance Under Bottom Strut	1450mm	860mm
Weight With 1000mm Strut	1696kg	1476kg
Panel Weight	805kg	695kg
Panel Thickness	100mm	100mm
Working Load Limit	35kPa	35kPa
Strut Weight Per Metre (141 Struts)	21.6kg/m	21.6kg/m

Note: Specifications are approximate.

# SHORE 4.2m-60 ALUMINIUM TRENCH BOX



**THE 4.2m-60 ALUMINIUM TRENCH BOX IS FOR HEAVY-DUTY, GENERAL PURPOSE SHORING, AND IS SUITABLE FOR MOST EXCAVATIONS AND MACHINES.**

The 150mm thick panel has been designed to withstand the higher ground pressure needed for large pipe installation, boring pits, pump stations, or projects where long pipe runs are being laid.

The 4.2m-60 Aluminium Trench Box guarantees heavy-duty performance in demanding conditions, where a lighter weight Trench Box is required due to machine size. This trench box also allows the use of Shore Hire's Arch Spreader System, which has the advantage of greater clearance under the lower strut when installing large-diameter pipes and culverts and using boring machines.

The 4.2m-60 Aluminium Trench Box is designed to safely and effectively support trenches up to any depth, provided the working load limit of 60kPa is not exceeded.

# SHORE 4.2m-60 ALUMINIUM TRENCH BOX



## FEATURES

- Foam filled to reduce waterlogging
- 150mm thick walls
- Reinforced top plate
- Four Point Lifting System
- Arch Spreader struts available
- Heavy-duty aluminium construction
- The ability to use the upper unit as a top extension or as a stand-alone shore box
- End Panels available
- Manufactured to Australian Standards
- Compatible with 168 Struts and Edge Safe Protection
- Sides that “toe out” for easy Dig & Push installation method
- Knife-edged bottom lip to help the boxes go in the ground easier

## SHORE 4.2m-60 ALUMINIUM TRENCH BOX SPECIFICATIONS

Specification	Base	Top
Length	4200mm	4200mm
Height	2440mm	1860mm
Min Width Internal	860mm	860mm
Max Width Internal (without engineering)	4260mm	4260mm
Clearance Between Struts	3800mm	3800mm
Clearance Under Bottom Strut	1450mm	860mm
Weight With 1000mm Strut	2300kg	1880kg
Panel Weight	1070kg	850kg
Panel Thickness	150mm	150mm
Working Load Limit	60kPa	60kPa
Strut Weight Per Metre (168 Struts)	42.5kg/m	42.5kg/m

Note: Specifications are approximate.