



**TRENCHING & SHORING**

## Aluminium Trench Shield Technical Data Sheet

This technical data sheet is intended to provide basic information for users of the GAP Group Aluminium Trench Shield System and draw the client's attention to the aspects of Trench Box Assembly, weight, dimensions, planning and lifting operations which need to be considered in compiling method statements.

The Aluminium Trench Shield is intended to act as a shield to provide a safe working area for the operative working in the trench. It is not intended to provide significant support to the trench sides and is therefore intended for use only in dry stable ground which stands to the excavated depth.

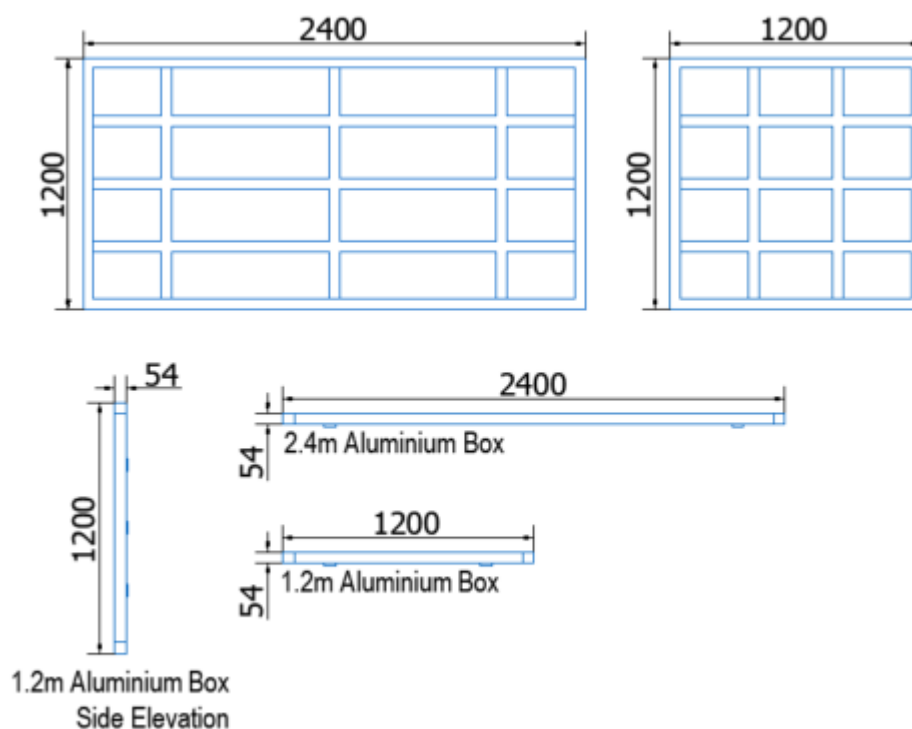
It is assumed that clients are familiar with general safe practices applicable to this type of work. The Aluminium Trench Shield is a two-sided mechanical excavation support system for support of trenches up to **\*2.4m deep**. It is not intended for other purposes.

GAP's Aluminium Trench Shield is designed for use with small excavators that have a limited lifting capacity. These shields are designed to be installed by an excavator using the excavate and lower in place technique. This box can resist a maximum lateral earth pressure of **20kN/m<sup>2</sup>**.

Each panel weighs **55kg** (2400mm x 1200mm) and **30kg** (1200mm x 1200mm).

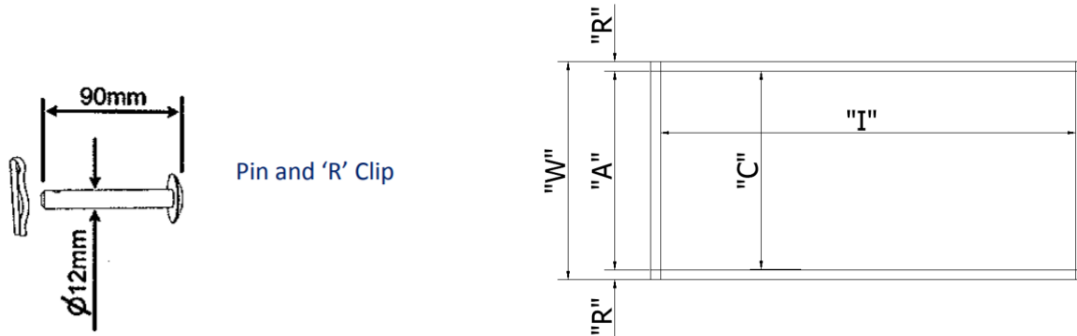
\*Note: Max depth achievable using 2 x Panels.

### Box Component Identification, Range and Dimensions



## Pin and Struts

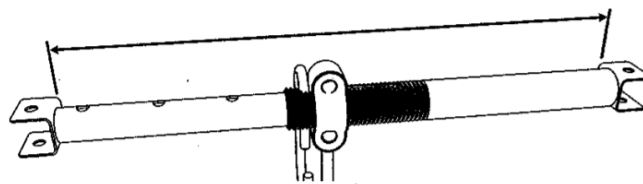
There are 4No. Pins required to attach one extension with the base panel.



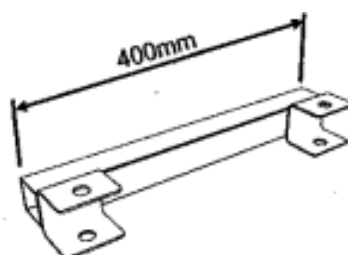
Strut Type	“A”		“R”  Outside Face to Pin Centre (mm)	“C”		“I”  Internal Clearance (mm)	“W”		Clearance Below Lower Strut (mm)
	Pin to Pin Length (mm)			Internal Clearance (mm)			Overall Width (mm)		
	Min	Max		Min	Max		Min	Max	
Size 1	600	900	54	600	900	950/2150	708	1008	290
Size 2	1000	1800	54	1000	1800	950/2150	1108	1908	290

Struts:

Adjustable Struts



Extension Joiner – Connector



All conections are via the 12mm diameter by 90mm long pin and secured with 'R' clip.

