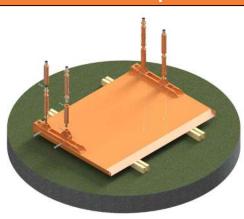
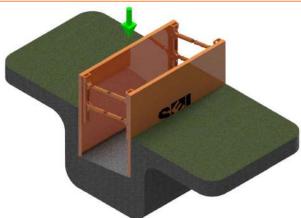
## Installation Sequence

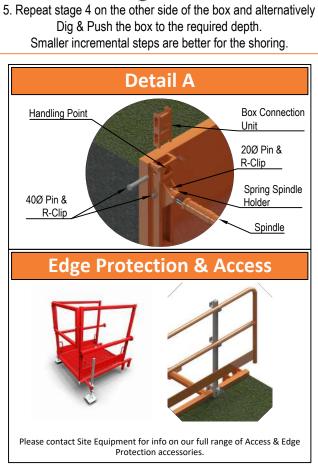


1. Lay the Trench Box panel down on a level surface on suitable timber bearers using the 4-Leg chain provided. Connect the Spring Spindle Holders using a 40Ø Pin & R-Clip. Connect the Adjustable spindle and appropriate extension pipes using 20Ø Pins & R-Clips.

Ensure that the lower Spindles are extended by 30-50mm more than the top Spindles.



Dig & Push the box to the required depth.





2. Lower the opposite panel onto the spindles using the 4-Leg chain. Chain hooks to be secured to the handling points at the upper and lower ends of each side. Secure to spindles using 20Ø Pins & R-Clips. Do not remove slack in the chains until all the spindles are secured.

6. Where required, lower on a top box (assembled similar to

stage 1) and connect using the Box Connection Unit and 40Ø

Pins & Clips in each corner (see Detail A).

Continue the Dig & Push sequence as before.

Site Specific Considerations

A Trained and Competent person must assess both the site and ground

The boxes must be installed using the Dig & Push method in temporarily

simply be lifted into a pre-excavated trench. If any of the following ground

conditions are anticipated / encountered, please contact SEL for advice as

Careful consideration must be given to employing boxe in water bearing soils or in the vicinity of watercourses.

Maximum excavation duration <12 weeks

No Structures located

No Services cross the path

within 5.3m of dig.

A live railway is not located within 7m of the

edge of the excavation.

Suitable plant is available

to lift and manoeuvre the

of the boxes

unstable ground. In stable and self supporting ground the boxes can

this box system may be limited in depth or suitability

Jnknown Ground

ery Loose SAND

Very Loose GRAVEL

encountered please contact SEL for advice

Maximum excavation

Plant and machinery

Adjacent slopes not in

excess of +/- 1 in 10.

Deflection sensitive

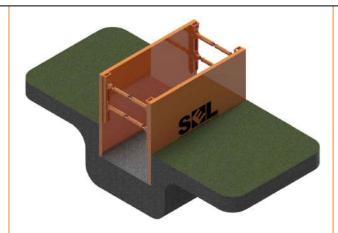
<30T operating near dig.

services not located within 4.0m of the dig.

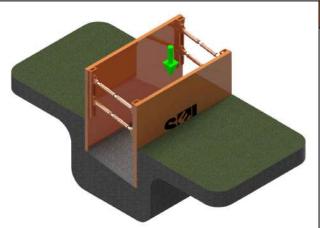
Public Highway not located

within 7m of the edge of

If anything beyond the following site conditions are anticipated /



3. Lift the box into an upright position using the 4-Leg chain secured through the upper handling points. Lower the box into a pre-excavated trench (max. 1.25m - soil stability assessed by the Contractor). Fill and compact any gaps outside the box.



4. Excavate within the box up to 500mm deeper. Using the excavator bucket, push the top of the panel down. Do not batter the box or push the spindles. Note that the spindles must not exceed +/-8° rotation. Do not enter the trench until the box is fully installed.

Removal

The removal of the boxes should be performed sequentially Once the permanent works are installed, the contractor should backfill inside the box in layers not exceeding 500mm

Once the backfill is compacted to the Permanent Works

design standard, the box can be lifted by a maximum of

500mm or +/-8° Spindle angle.

Continue the removal of the box sequentially in the reverse of the installation procedure until the boxes can be removed

completely.

### 1680-2216 2.6 Base 2.50 1.4 Top 990-1258 1935-2471 2.6 Base 3.00 1.4 Top 1134-1403 2180-2716 2.6 Base 3.50 1.4 Top 1280-1548 2.6 Base 2420-2956 4.00 1.4 Top 1425-1693 2.6 Base 2950-3486

**Box Details** 

# **Useful Links**

1.4 Top

1810-2058



4.50

Site Equipment

nstallation Animation **Technical Library** This drawing is the property of Site Equipment Ltd. and

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0	First Issue	SRB	11/03/20		
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Status:

### **APPROVED**



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Standard Trench Box User Guide Version V1.1

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7. Install suitable edge protection and access where required. Ensure that the open end of the excavation is battered to a safe angle as determined by the Contractor or closed with suitable end closure (see below).

# **Residual Risks**

The following residual risks must be addressed in the Contractors RAMS: When lowering the opposite panel onto the spindles, ensure operatives hands are low down on the spindle (Stage 2).

the top box onto the base box (Stage 6).

When removing the chains from the opposite panel, consider potentia working at height risks (Stage 2).

Locate all potential services prior to excavation in accordance with NRSWA Regulations.

The excavation may be classified as a confined space. The Contractor must assess this risk and provide suitable gas detection and rescue equipment where appropriate

If a spindle is struck accidentally by an excavator, inspect immediately If damage is visible, remove the box from the trench and replace the spindle following the steps identified above.

### **End Closure Panels**



Both ends of the boxes must be either connected to an adjacent box, suitably battered back, or closed off using suitable end closures (End Closure Panels or suitably supported sheets).

Please contact SEL for further information on our full range of end closure options.

Ensure operatives hands are kept clear of pinch points when lowering



Do not use the spindles for

support

# Do's and Don'ts

Contact Site Equipment if unsure about any element of this Inspect all components to ensure that there are no signs of

damage and that they are installed correctly Ensure that the limitations of the box and this safe use guide is

fully briefed to all operatives undertaking the work. Ensure suitable edge protection and access are provided as

Ensure suitable lifting equipment is employed and suitable checks are carried out regularly

Ensure that the full height of adjacent soil is considered where a local ground

reduction has been undertaken Do not enter an excavation unless it has appropriate shoring in

Do not have vertical earth faces at ends of boxes (see end

Do not allow overdigging of the excavation.

Do not allow storing of spoil or construction materials within 4m

Do not have out of

