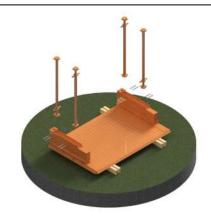
Installation Sequence



1. Lay Manhole Box panel down on a level surface on suitable timber bearers using the 4-Leg chain provided. Secure the lifting hooks through the handling points at the upper and lower ends of the channels. Connect the Manhole Profiles using 8no M20x40 bolts per



2. Spin out Spindles to the required length and position into the channels alternating as shown. Ensure that the lower Spindles are extended by 30-50mm more than the top Spindles.

Secure using Pins & R-Clips as shown in Detail A.



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



4. Lift box into upright position using the 4-Leg chain secured through the upper handling points.

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. Using a single chain leg, pull each corner of the box

slightly before attempting to lift the whole box using the 4-Leg chain.

Repeat this process until the boxes can be removed

completely.



Box Details

Useful Links

2.0 Base

1.0 Top

1897-1957

1038-1103



Manhole Box

This drawing is the property of Site Equipment Ltd. and

0	First Issue	SRB	19/12/19
-		•	
Rev.	Revision Details.	DR	Date.

Status:

Do's and Don'ts



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

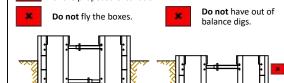
reduction has been undertaken. Do not enter an excavation unless it has appropriate shoring in

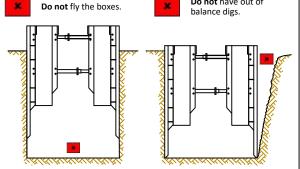
Do not have vertical earth faces at ends of boxes (see end

Do not allow overdigging of the excavation.

closure options)

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





4 00



Information Sheet

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<u> </u>			

Approved



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BRISTOL CARDIFF LONDON

> Lite Manhole Box User Guide Version V1.1

Drawing Scale: Varies	Paper Size: A3
Drawn By:	Date:
SRB	19/12/19
Checked By:	Date:
PJ	19/12/19

Drawing Number:

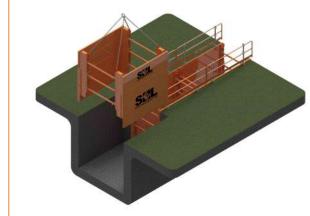
SEL-UG-LITE MH 001

V1.1

Revision:

5. Where required, lower Top Box onto Base Box (assembled

as Stages 1-4). A second spindle is recommended for ease of installation.



6. Lift box into preformed trench excavated in stable ground. A competent person should assess the ground conditions, ensuring that the ground is temporarily stable and self supporting (see below).

A minimum 50mm upstand is recommended.

Site Specific Considerations

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

The box is intended to be employed in ground which is stable and self supporting in the short term whilst installing the boxes to the final depth

If any of the following ground conditions are anticipated / encountered, please contact SEL for advice as this box system may not be suitable.

Very Loose Gravel

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

If anything beyond the following site conditions are anticipated / encountered please contact SEL for advice



Maximum excavation Plant and machinery

Adjacent slopes not in

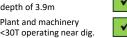
services not located within 4m of the dig.

Public Highway not located

within 7m of the edge of

excess of +/- 1 in 10.

Deflection sensitive



duration <12 weeks No Structures located within 4m of dig. No Services cross the patl

Maximum excavation



located within 7m of the edge of the excavation. Suitable plant is available

of the boxes A live railway is not

to lift and manoeuvre the

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 3).

Ensure operatives hands are kept clear of pinch points when lowering the top box onto the base box (Stage 5).

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).

When removing the chains from the opposite panel, consider potential working at height risks (Stage 3).

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).

Do not use the spindles for support

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

Secure to Base box using Pins & R-Clips as shown in Detail A. **Detail A** Handling Point Top Box connection: 2no Pins & R-Clips Adjustable Spindle Spindle Connection 8no **M20x40** Bol 2no Pins & R-Clips **Edge Protection & Access** Please contact Site Equipment for info on our full range of Access & Edge Protection accessories