



Drag Box USER GUIDE

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Health and safety legislation states that construction equipment users should formulate a site specific Safe System of Work to undertake any work they are planning. This leaflet was designed to offer basic instruction of Shoring Equipment Systems including the assembly, installation and extraction of the Drag Box. The correct sizes and weights of the components will also be shown so that use of equipment can be planned ahead. It is necessary that users enforce the appropriate safety practices of excavations and trenching throughout installation.

Drag Box

USER GUIDE

The users of Shoring Equipment should be familiar, confident and competent when handling and installing boxes and accessories. Actavo excavation systems can be supplied with a full range of additional safety products including ladder access and guardrails as well as various other ancillary products. These products are designed to act in accordance with the practice of Shoring Equipment and meet the requirements of the Lifting Operations & Lifting Equipment Regulations, Work at Height Regulations and the Confined Spaces Regulations.

Personnel should make themselves aware that certain conditions such as the close proximity of structures, site roads, railways and excavated materials near the trench can all increase surrounding earth pressures. If in doubt please seek advice.

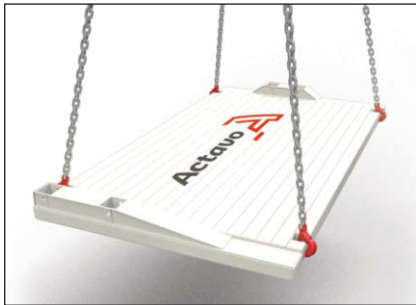
For additional details please contact Actavo Shoring Department on:

Freephone: 0800 083 7466.

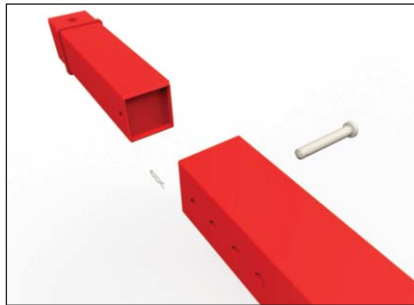
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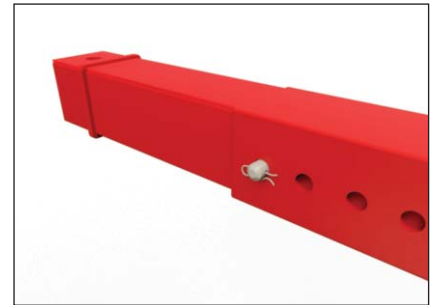
ASSEMBLE



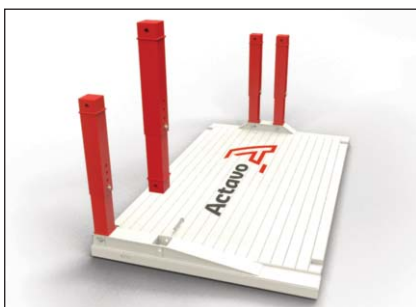
Stage 1:
Lay Panel Flat on ground with pockets facing upwards.



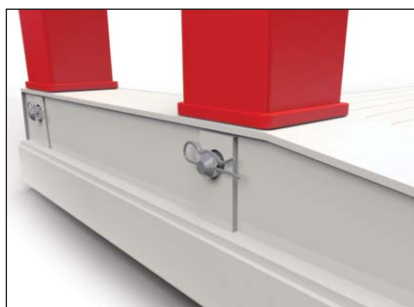
Stage 2:
Assemble the struts.



Stage 3:
Insert pins into designated holes and secure with R Clips.



Stage 4:
Insert the struts into the pockets and lock in place with Pins and Clips.



Stage 5:
Lock in place with Clips and Pins.



Stage 6:
Lower the second panel, pockets facing downwards onto the upraised struts you have just installed and lock in place.

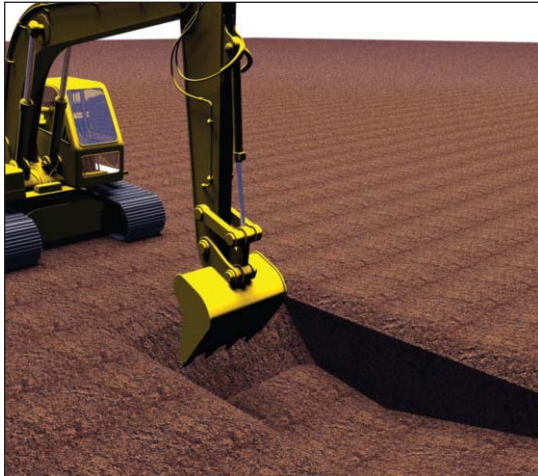


Stage 7:
Lock top panel in place with clips and pins.



Stage 8:
Stand the Drag Box upright on its cutting edges, by attaching chains to the downwards facing panel's lifting points and turn the constructed Drag Box from flat to upright.

INSTALL



Stage 1:
Dig the Trench.



Stage 2:
Lift the Drag Box into the trench.



Stage 3:
Lay the first pipe.



Stage 4:
Dig in front of the box.



Stage 5:
After installing a section of pipe, pull the drag box with the bucket through the trench. Continue until pipe laying is complete.

Backfill and compact to underside of bottom frame, and remove. Repeat for top frame and backfill to ground level, then extract sheets.

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ADDING A TOP BOX

- 1) Fit the panel connectors to the top box
- 2) Lift the box so these panel connectors hang down
- 3) Locate the panel connectors in the top of the base panel
- 4) Then pin through connectors and panel
- 5) Secure with these with 'R' Clips

EXTRACTION



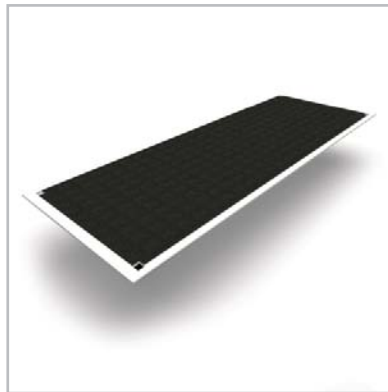
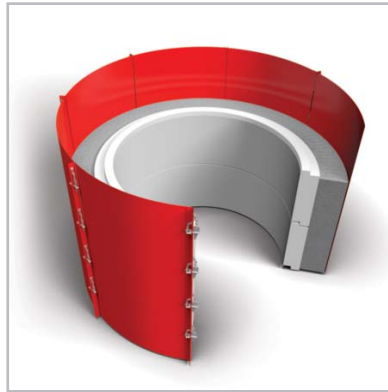
The Single Pull

- a. Attach a lifting chain to one lifting point and pull.
- b. Repeat this for each corner.
- c. Until the box can be pulled out using the straight pull.

SAFETY TIPS

- Please refrain from using the box on unstable ground and within close proximity to structures due to increase in Earth Pressure.
- Plan all excavations ahead of time to ensure that the correct lifting operations can be used.
- Ensure that all personnel required to install this equipment are suitably trained and supervised whilst assembly and installation is in progress.
- Inspect all components, including lifting points, struts, clips and pins.
- Boxes should never be left flying above the base of the excavation.
- Leave 100mm of the box above ground level on the base/top box.
- Refrain from bearing weight with the bucket in the middle of the panel during installation.
- Only access the box via ladder access.
- Never move the box whilst personnel are inside the excavation.
- Do not use any un-supported part of the trench as access.
- Top Boxes and extension panels are not to be removed before the top of the base box is above ground level.
- To minimise damage do not lift the box via the struts or laterally load them.
- Attach Ladder Access and Guardrails before use.
- Seek advice if you are in doubt.

ANCILLARIES



Standard Drag Box	5.0m x 1.8m	5.0m x 2.5m	7.0m x 2.5m
Panel Length (mm)	5000	5000	7000
Panel Height (mm)	1800	2500	2500
Panel Thickness (mm)	100	100	100
Minimum External Trench Width (mm)	900	900	900
Maximum Internal Trench Width (mm)	3200	3200	3200
Clearance Between Struts (mm)	4520	4520	6620
Max Clearance Below Bottom Strut (mm)	1072	1500	1500
Maximum Weight (kg)	2370	3020	4550
Standard Working Load	25kn/m ²	25kn/m ²	25kn/m ²

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