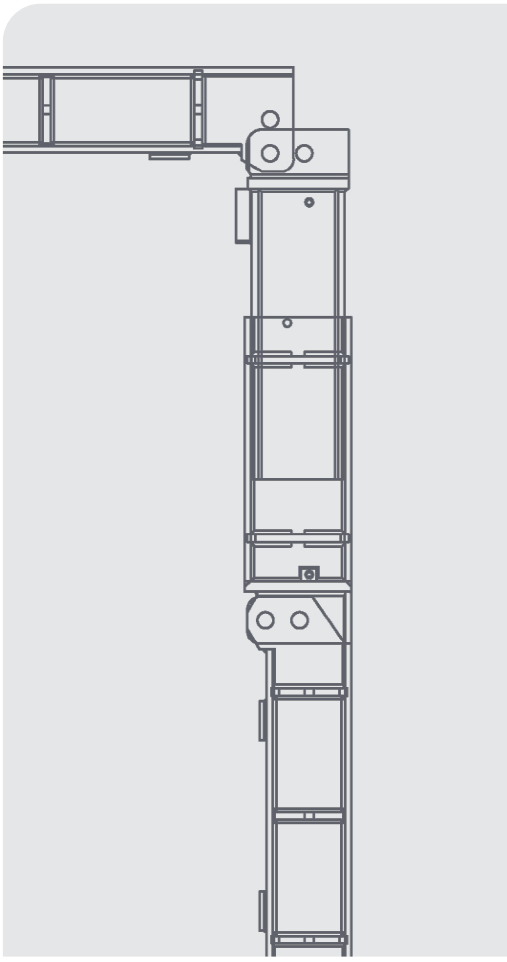
USER GUIDE

300 BRACE





DISCLAIMER

Conquip has prepared this document to provide guidance on the safe erection, use and dismantling of the Conquip 300 Brace. This document should be read in conjunction with the guidance document of the waling system the struts are being used with. This document contains limited design information. Design information can be found in Conquip's Excavation Support Technical File, or by containing Conquip directly.

This document does not relieve users of their own duty of care.

This user guide is based on the user being familiar with this type of equipment, exercising all reasonable skill and care in its use. All work with the equipment should only be undertaken with suitably competent and supervised operatives.

The user should take into account this user guide, as well as all other available documentation and guidance provided by Conquip and the wider construction industry. The user must remain compliant with relevant safety laws and industry good practice.

Considerations for a Safe System of Work should include, but are not limited to:

- Employing a competent engineer to provide a suitable design for excavation schemes.
- Safe handling and lifting of equipment.
- Provision of safe access and prevention of falls from height.
- Identification of buried services and unexploded ordinance.
- Working within confined spaces.
- Inspection and suitability of ground conditions for the equipment selected.

Your attention is drawn to the Construction Design Management Regulations 2015, whereby the person selecting a product for use is a designer and must take account of the health and safety issues arising from its use.

Conquip does not accept any responsibility for the user's operation of the equipment.

Conquip operates a continuous improvement policy and therefore may change the contents of this document at any time without notice.

Your statutory rights are unaffected.

If in doubt, ask Conquip for assistance.

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INTRODUCTION

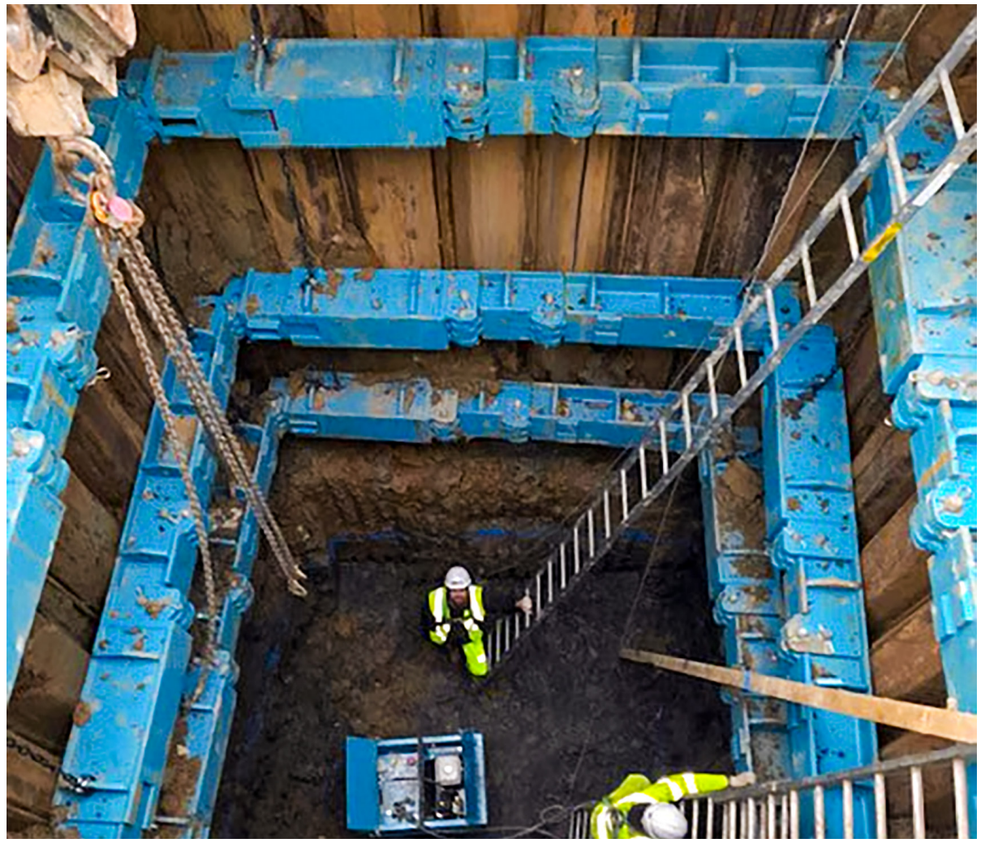
OVERVIEW

The Conquip 300 Brace consists of adjustable hydraulic legs and extension lengths, intended to be used as a temporary waling system for sheeted excavations.

It is typically used in excavations with clear spans of 2 to 15 metres. Additional cross strutting can be used for larger excavations, using Conquip's strutting ranges and attachments.

Brace legs use a double acting hydraulic ram to allow a correct fit of the brace inside the excavation and to provide preloading where required.

The 300 Brace is suitable for medium excavations. Legs can be fully expanded and retracted by use of a motorised pump.



KEY BENEFITS

VERSATILE EXCAVATION SUPPORT

Ideal for a range of medium-sized excavations with 2-metre to 15-metre clear spans.

ADAPTABLE FOR VARYING EXCAVATION SIZES

Suitable for larger excavations by utilising Conquip's wide range of cross strutting and supporting attachments.

SHEETING PROFILE COMPATIBLITY

Suitable to use with a wide range of trench sheeting, including Standard Lap, BVI 500, KKD/600 and HD2 sheets.

EASY TO USE AND CONFIGURE

Fully-adjustable legs that can be expanded and retracted using a motorised pump, easing manual handling and labour intensity.

ROBUST BUILD

Highly durable design manufactured from quality steel, enabling the assembly to withstand the ground pressure from varying soil types and ground conditions.

MODULAR COMPONENT ASSEMBLY

A large selection of brace legs allows for multiple extension combinations to suit excavations of all types and ground pressures.

COMPONENT IDENTIFICATION

HYDRAULIC UNIT



CODE	DESCRIPTION	LENGTH (mm)		WEIGHT (kg)
		MIN	MAX	
300B-600HYD	Hydraulic Unit	1290	1890	625

EXTENSION UNITS



CODE	DESCRIPTION	LENGTH (mm)	WEIGHT (kg)
300B-E05	Extension Unit 550	550	245
300B-E10	Extension Unit 1000	1000	345
300B-E15	Extension Unit 1500	1500	450
300B-E25	Extension Unit 2500	2500	620
300B-E40	Extension Unit 4000	4000	900
300B-E60	Extension Unit 6000	6000	1190

CONNECTING PINS

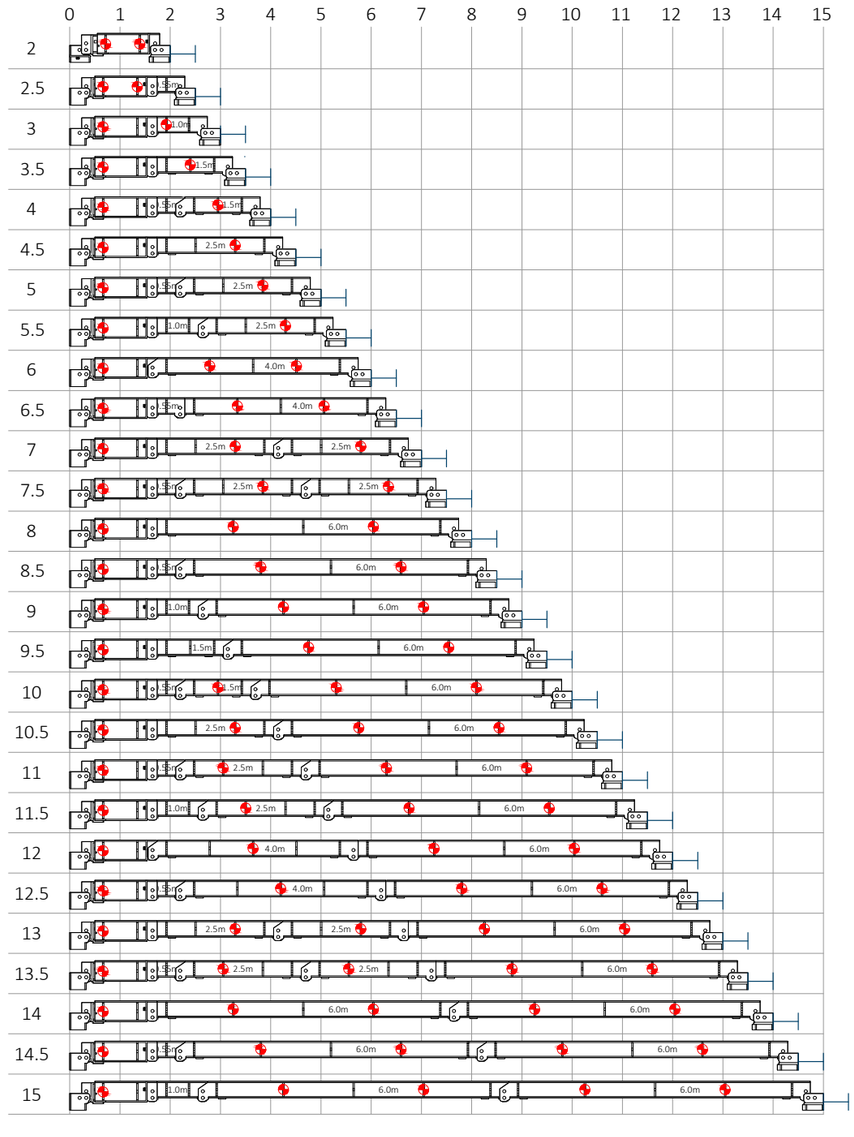
CODE	DESCRIPTION	WEIGHT (kg)
-	60mm Pin	2
-	R Clip	-



SPECIFICATION

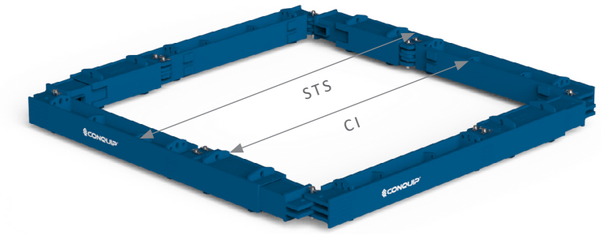
RECOMMENDED BRACE EXTENSION COMBINATIONS

Recommended leg combinations are based on minimising the number of extension joints occurring within any single leg. It is good practice to avoid a large number of joints, and to avoid having joints near the midspan of braces.



SPECIFICATION

BRACE FRAME WORKING WIDTHS



STS - Sheet To Sheet dimension
CI - Clear Internal

LEG CODE	CLEAR INTERNAL DIMENSIONS (m)		SHEET TO SHEET DIMENSIONS (m)	
	MIN	MAX	MIN	MAX
300B-02	1.12	1.62	2.00	2.50
300B-02.5	1.62	2.12	2.50	3.00
300B-03	2.12	2.62	3.00	3.50
300B-03.5	2.62	3.12	3.50	4.00
300B-04	3.12	3.62	4.00	4.50
300B-04.5	3.62	4.12	4.50	5.00
300B-05	4.12	4.62	5.00	5.50
300B-05.5	4.62	5.12	5.50	6.00
300B-06	5.12	5.62	6.00	6.50
300B-06.5	5.62	6.12	6.50	7.00
300B-07	6.12	6.62	7.00	7.50
300B-07.5	6.62	7.12	7.50	8.00
300B-08	7.12	7.62	8.00	8.50
300B-08.5	7.62	8.12	8.50	9.00
300B-09	8.12	8.62	9.00	9.50
300B-09.5	8.62	9.12	9.50	10.00

SPECIFICATION

BRACE FRAME WORKING WIDTHS CONTINUED

LEG CODE	CLEAR INTERNAL DIMENSIONS (m)		SHEET TO SHEET DIMENSIONS (m)	
	MIN	MAX	MIN	MAX
300B-10	9.12	9.62	10.00	10.50
300B-10.5	9.62	10.12	10.50	11.00
300B-11	10.12	10.62	11.00	11.50
300B-11.5	10.62	11.12	11.50	12.00
300B-12	11.12	11.62	12.00	12.50
300B-12.5	11.62	12.12	12.50	13.00
300B-13	12.12	12.62	13.00	13.50
300B-13.5	12.62	13.12	13.50	14.00
300B-14	13.12	13.62	14.00	14.50
300B-14.5	13.62	14.12	14.50	15.00
300B-15	14.12	14.62	15.00	15.50

Refer to Conquip Excavation Support Technical File or Technical Data Sheet for load performance of the brace frames.

The dimensions noted above do not include allowances for deflection under loading.

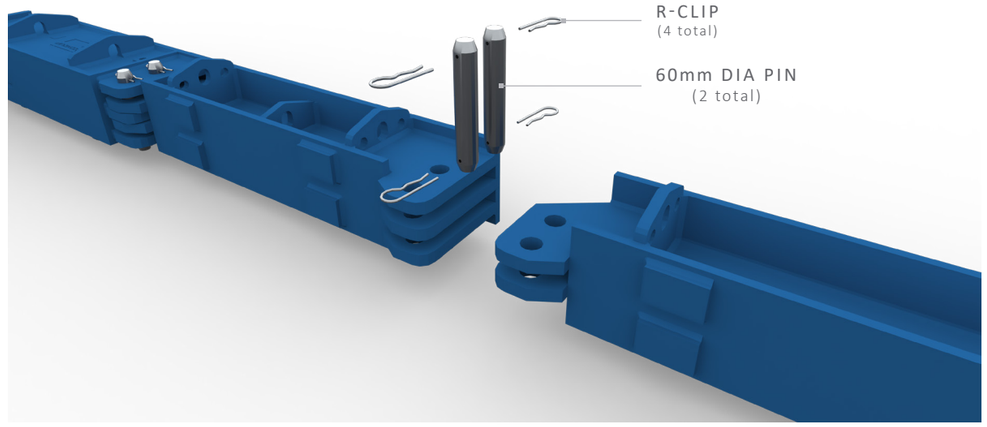
COMPONENT MAKE-UP

300 BRACE LEGS

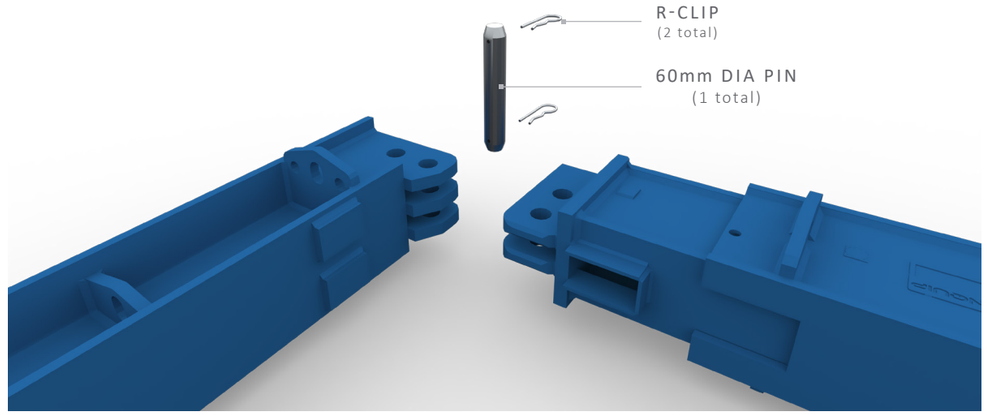
LEG CODE	600kN Ram	0.55m	1.0m	1.5m	2.5m	4.0m	6.0m	60mm Pin	R-Clip	SINGLE LEG WEIGHT (kg)
300B-02	1							1	2	627
300B-02.5	1	1						3	6	876
300B-03	1		1					3	6	976
300B-03.5	1			1				3	6	1081
300B-04	1	1		1				5	10	1330
300B-04.5	1				1			3	6	1251
300B-05	1	1			1			5	10	1500
300B-05.5	1		1		1			5	10	1600
300B-06	1					1		3	6	1531
300B-06.5	1	1				1		3	10	1780
300B-07	1				2			5	10	1875
300B-07.5	1	1			2			7	14	2124
300B-08	1						1	3	6	1821
300B-08.5	1	1					1	5	10	2070
300B-09	1		1				1	5	10	2170
300B-09.5	1			1			1	5	10	2275
300B-10	1	1		1			1	7	14	2524
300B-10.5	1				1		1	5	10	2445
300B-11	1	1			1		1	7	14	2694
300B-11.5	1		1		1		1	7	14	2794
300B-12	1					1	1	5	10	2725
300B-12.5	1	1				1	1	7	14	2974
300B-13	1				2		1	7	14	3069
300B-13.5	1	1			2		1	9	18	3318
300B-14	1						2	5	10	3015
300B-14.5	1	1					2	7	14	3264
300B-15	1		1				2	7	14	3364

STANDARD CONNECTIONS

RAM TO RAM EXTENSION | EXTENSION TO EXTENSION



CORNER CONNECTION



BRACE ACCESSORIES

The below items are required for frame installation. Detailed guidance on their individual uses can be found either in their respective user guides, or later in this document.

FOUR-LEG LIFTING CHAINS

CODE	DESCRIPTION	WEIGHT (kg)
CF3-10-1AX8	4-Leg Chain 3mtr – SWL 6.7T 10mm	30
CF5-10-1AX8	4-Leg Chain 5mtr – SWL 6.7T 10mm	60



RESTRAINT CHAINS

CODE	DESCRIPTION	WEIGHT (kg)
-	Heavy Duty Restraint Chain 1.5mtr- SWL 3.25T	9
-	Heavy Duty Restraint Chain 2.5mtr- SWL 3.25T	12



HYDRAULICS

CODE	DESCRIPTION	WEIGHT (kg)
TL900422	DA Bucket Pump 20L	20
-	DA Motorised Pump 70L	184
TL900420	1/4” Hose M/F 6.0m 400bar	-
TL900421	5 Way Bridle	-



PRODUCT INFORMATION

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GENERAL GUIDANCE

SAFE SYSTEMS OF WORK

All aspects of handling, use and maintenance of the equipment should consider adopting a Safe System of Work. The equipment includes components with significant weight, requiring appropriate lifting plans, machinery and suitably competent operatives. Assembly of suspended loads should be managed to avoid trapping of fingers.

ACCESS

Safe access is required for assembly and use of this equipment. Further details are provided in the sections below.

PLANNING AND PREPARATION

Conquip recommends the following are considered in the planning stage of the excavation:

- Surface conditions. Is the surface being worked on sloping or soft ground. Is a reduced level dig required prior to operations.
- Selection of plant for lifting and excavation operations should be suitable for the weights being lifted and excavation methodology / depth.
- Selection of plant for sheet driving operations. Suitable sheet size and driving methods for the required driving depths.

STORAGE

Brace legs should be stored by lying flat and raised off surfaces, ideally by placing on timbers.

USAGE INSTRUCTIONS

ASSEMBLY INSTRUCTIONS

01. Position and level timbers on the ground in a clear area adjacent to where the excavation will be carried out. Using certified lifting chains, position each Manhole Brace Leg on the timbers. Ensure hydraulic connectors are facing inwards.
DO NOT lift braces using restraint chains.
02. Keep fingers clear of overlapping or potential pinch points. Locate the inner manhole brace end of one brace into the open end of the adjacent leg. Insert the pin provided and secure with an R-Clip.
03. Repeat for all required joints to assemble the leg.
ENSURE all joint pins and R-Clips are in place before lifting.

EXTENDING LEGS OR PRESSURISING FRAME

01. Prepare the pump for use, adding additional shoring fluid as required and following the supplier's mixing instructions to dilute according to operating temperature.
02. Check the fluid indicator on the pump reservoir to ensure there is enough shoring fluid in the tank. Purge the hoses of air by connecting them together and pump for several strokes with the pump lever set to 'Extend'. When complete, move the lever to 'Neutral'.
03. Ensure the frame is raised off the surface, and that it will not catch on anything as the rams are extended / retracted.
04. Connect both hoses.
05. Set the pump control lever to 'Extend'.
06. Ensure that the safety lock-off valve on the ram is open by turning anti-clockwise no more than two turns.
07. Adjust the frame to the size required. Legs can be adjusted individually, or as pairs / fours by using hose bridle adaptors. When adjusting leg lengths, take care to avoid over rotation of corners. This is best achieved by pumping out adjacent leg pairs together.
08. If the ram does not move, refer to 'Pump Troubleshooting' on page 16.
09. Close the safe lock-off valve on the ram by turning it clockwise, snug tight. Take care not to overtighten the valve.
10. Turn the pump control lever between 'Retract' and 'Extend' several times to relieve pressure in the couplings and hoses. Then leave the valve in 'Neutral'.
11. Remove the hoses and repeat for the remaining frame sides.

RETRACTING / RELEASING FRAMES

01. Ensure the leg is secured against dropping.
02. Set pump lever to ‘Neutral’
03. Connect the pump hoses to the ram unit of the waling.
04. Slowly open the safety lock-off valve (max two turns), release the hydraulic fluid pressure and fluid will flow back through the pump.
05. To release frames, it will be necessary to retract the walings in turn by setting the pump control to ‘Retract’ and operating the pump until fully retracted.
06. On completion, set the pump control valve to ‘Neutral’.
07. Close the lock-off valve on the ram and disconnect the hoses.

PUMP FLUID

The pump is normally supplied with a full tank of pre-mixed shoring fluid. Additional pre-mixed 5-litre containers can be provided.

PUMP TROUBLESHOOTING

If the leg fails to extend or retract, it is likely due to one of the following:

- The pump does not contain enough hydraulic fluid.
- The hoses are incorrectly fitted.
- Only one hose is fitted.
- The pump control lever is not in the correct position for the required operation.
- The safety lock-off valve is closed.
- The frame assembly is too heavily loaded.

If the frame still does not move, there may be air in the system, which may be indicated by the ram springing back. This must be purged as follows:

- Purge air from the hoses – disconnect the hoses from the ram and connect the hose ends together. Pump for several strokes until fluid can be heard returning to the tank. Repeat with the lever in the opposite position.
- Purge air from the ram – connect the hoses and pump the ram to full extension. Reverse the lever and pump until fully closed. Repeat until there is no sign of the ram springing back.

Contact Conquip Engineering Group if you require further assistance.

OPERATIONAL PROCEDURES

RESTRAINT CHAINS

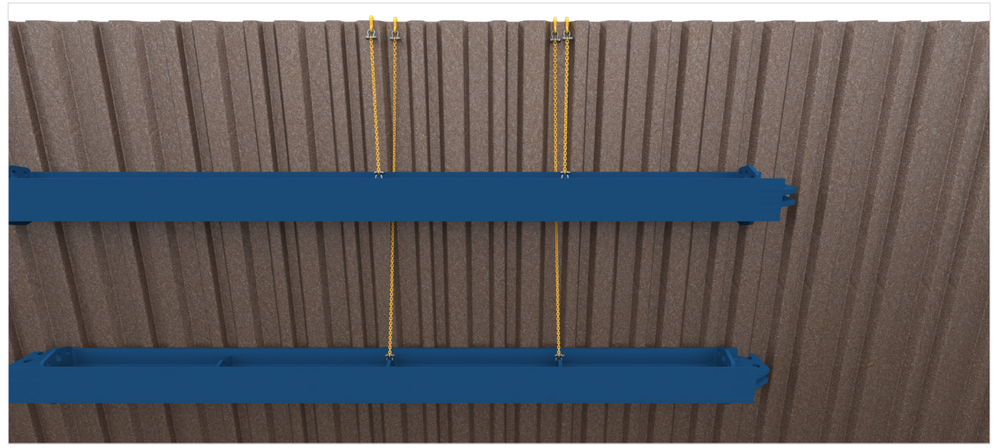
Restraint chains are provided as a back-up support arrangement in the unlikely event of hydraulic failure of one of the brace hydraulic legs. They are **NOT** to be used for any other purpose and particularly are **NOT** to be used as lifting chains. They are **NOT** intended to be a mean of suspension to be solely relied upon during installation or removal of the frames.

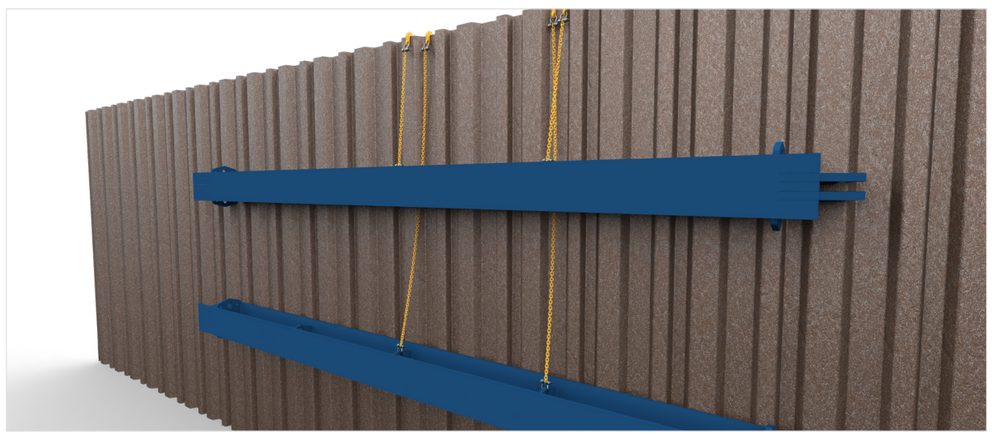
Use the lower ‘D’ shackle to remove as much slack as possible from the chains.

Always ensure restraint chains are fitted as per the arrangement shown on the scheme drawing, or if no scheme has been prepared, recommended chain spacings are 3.0m for Heavy Duty Chains, 1.5m For Standard Duty Chains.

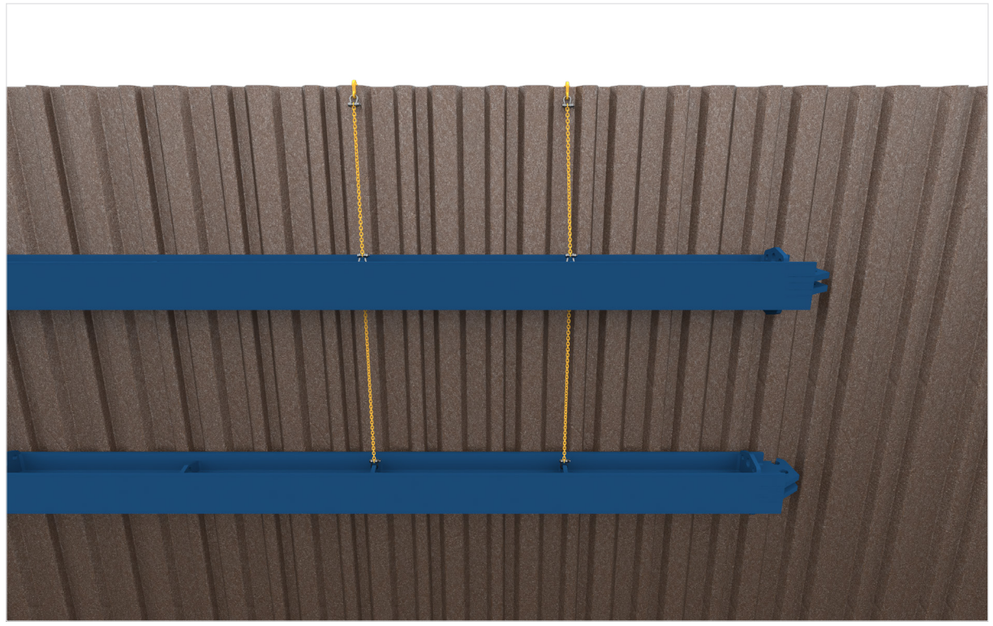
When used with Conquip Standard Lap Trench Sheets, Restraint Chain capacity is limited to **1.0Te.**

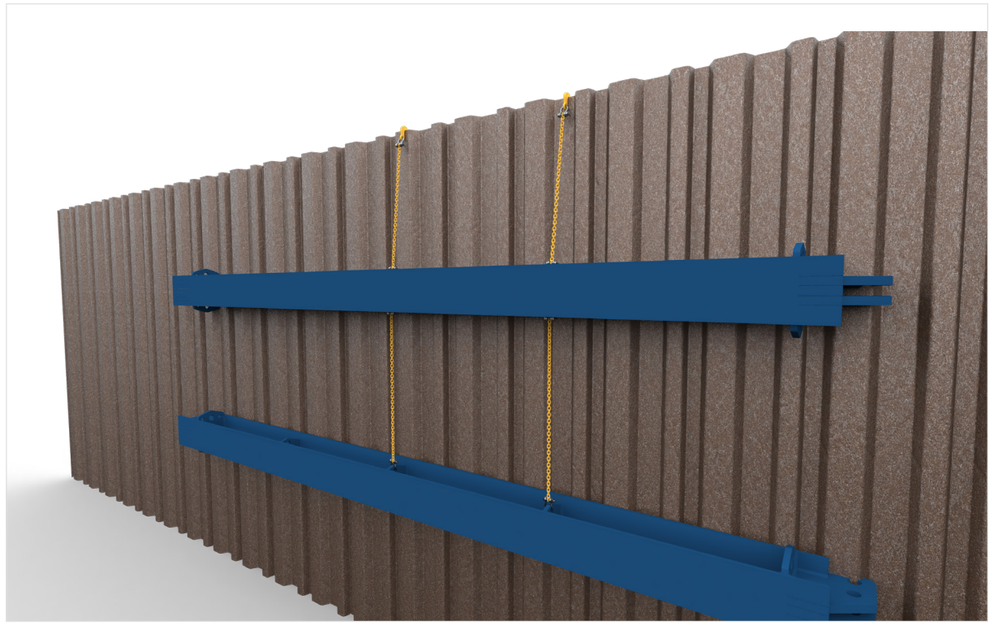
MULTIPLE FRAMES HUNG OFF SHEETS





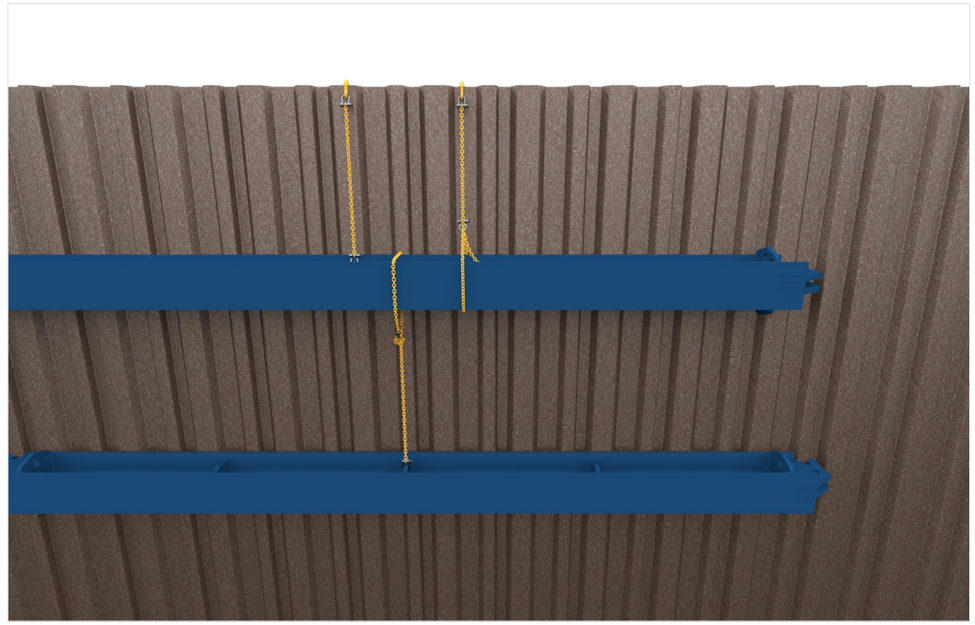
FRAMES HANGING OFF FRAMES

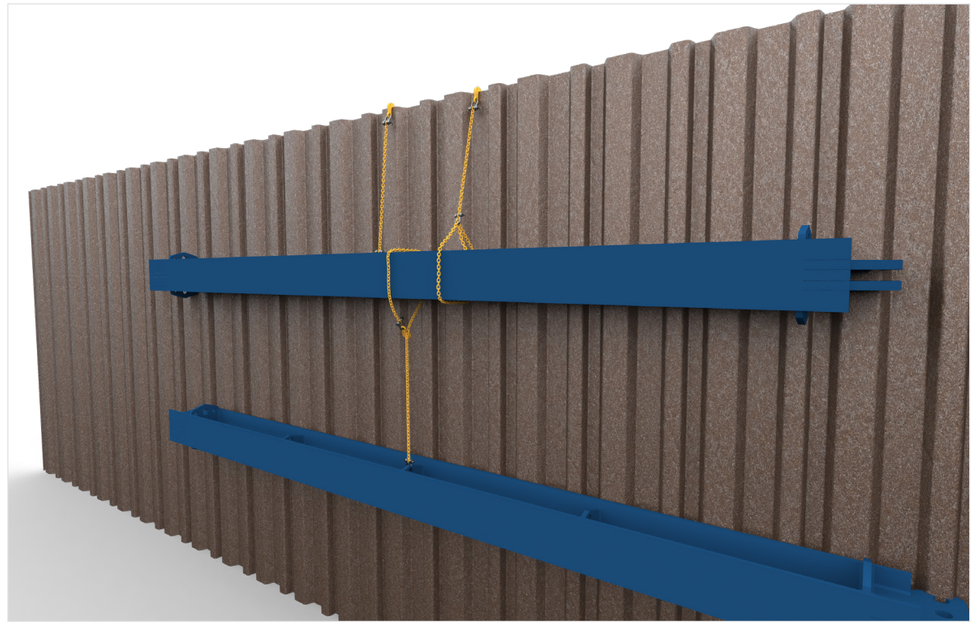




OPERATIONAL PROCEDURES

RESTRAINT CHAINS WRAPPED AROUND FRAME





⚠ Reduces chain capacity by approx. 50%. This method should only be used if a restraining point is not suitably located.

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INSTALLATION

IMPORTANT INSTALLATION NOTES

In all cases you must ensure:

- All buried services and U.X.Os (Unexploded Ordnance) have been identified prior to works and will not be impacted by the excavation unless accounted for in the design.
- Safe Systems of Work are being worked to at all times.
- Safe means of access for assembly and inspection are provided.
- Restraint chains are in place before re-entering the excavation.
- Interim access is available to attach driving caps to the top of the sheets, if required.

INSTALLATION INSTRUCTIONS

The installation sequence for installing brace frames will depend on the methodology for installing the sheets. Conquip can provide Safe Systems of Work and guidance demonstrating sequencing for alternative methods of sheet and frame installation, including, pre-driven, push and dig, no-toe and slit trench methodologies.

Alternatively, you may obtain a bespoke design, which Conquip Engineering Group can also provide. Contact Conquip Engineering Group if you require further assistance.

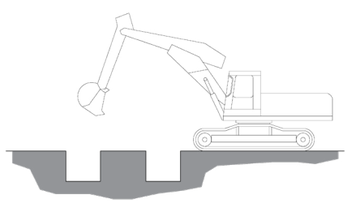
TYPICAL SEQUENCE FOR SHEET AND FRAME INSTALLATION

Two example methods of installation sequence are given below. Other methods are possible, contact Conquip for advice. At all times the contractor must ensure safe working conditions for operatives entering the excavation.

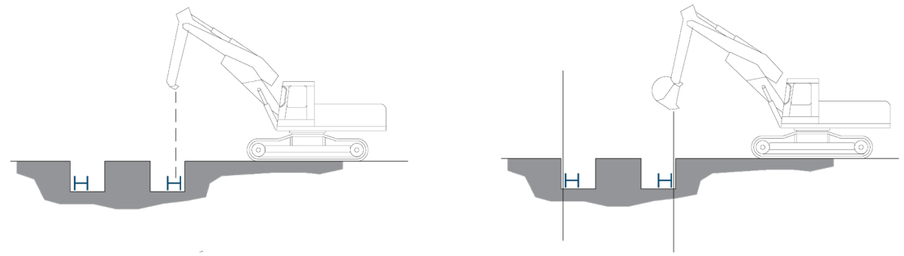
Method 01

Installation of two frames, sheets partially driven with excavator driving caps. **Push and Dig**

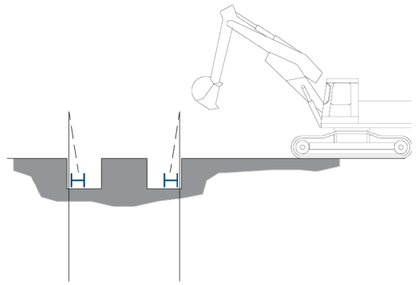
01. Mark out excavation using timbers or spray point. Excavate to just below first frame level.
02. Assemble brace legs as per assembly section of this user guide. Check all pins and R-clips are fully installed.



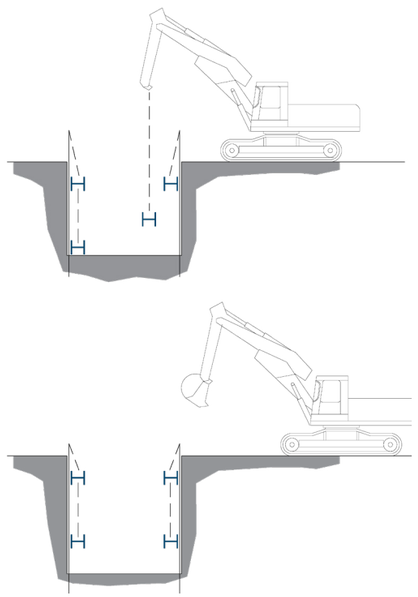
03. Using certified two-leg chains, lower all the assembled brace legs into the excavation. Assemble the frame, level it, and pump out to required dimensions. Remove hydraulics.
04. Using the frame and excavated face as a guide, start with the corner sheets and pitch the sheets. Use the relevant drive cap with the excavator bucket to drive the sheets as far as possible (or min depth for temporary stability). Ensure sheets are driven in plumb. If using lapped sheets, drive corners first. With interlocking sheets, drive sequentially along the excavation.



05. It may be necessary to temporarily drive shorter sheets on the excavator side, to provide access for the excavator to carry out further excavation. Or temporarily omit these sheets.
06. Connect restraint chains as per the scheme drawing.
07. Connect hydraulics and individually pressurise all frame ram units to 100Bar (1450 p.s.i). Provide timber packing to sheets if required, close lock off valves and remove hoses.



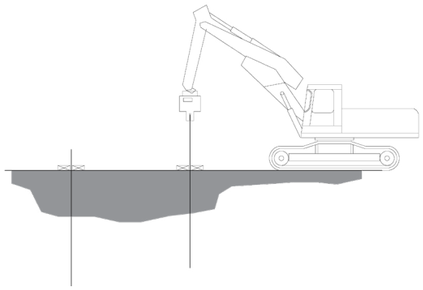
08. Excavate to the underside of the next frame level, driving all sheets except those the top frame is hanging off. Reposition restraint chains as necessary.
09. Assemble and level the next frame, packing off the ground with timbers as required. (Safe working conditions must be maintained.)
10. Attach the frame to the one above using restraint chains and two ‘D’ shackles at the dedicated points. (Or to top of sheets.)
11. Connect hydraulics and individually pressurise all frame ram units to 100Bar (1450 p.s.i). Provide timber packing to sheets if required, close lock off valves and remove hoses.
12. Drive sheets down to required toe level and complete the dig.

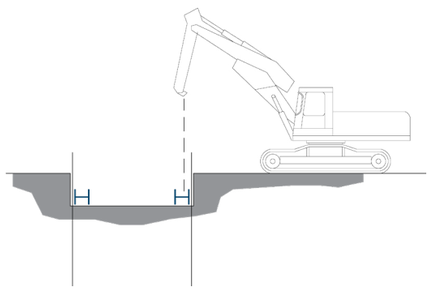


Method 02

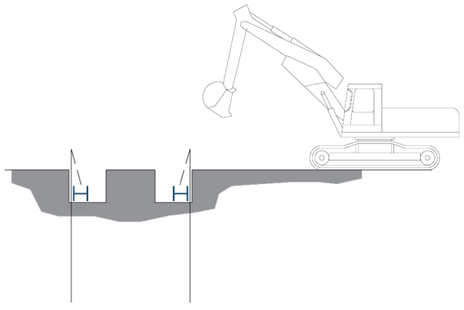
Installation of two frames, sheets fully driven to toe level with suitable driving equipment, such as a piling hammer. **Pre-Drive**

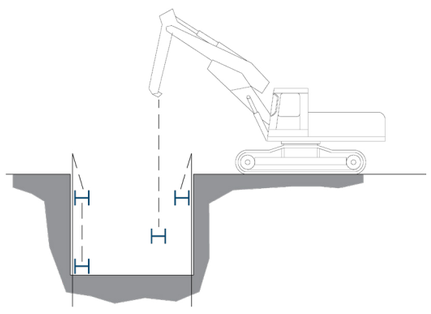
01. Fully drive sheets using a piling guide (alternatively part excavate and use frame as with Method 01).
02. Assemble brace legs as per assembly section of this user guide. Check all pins and R-clips are fully installed.





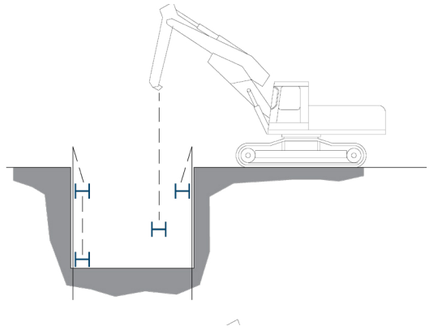
03. Using certified two-leg chains, lower all the assembled brace legs into the excavation. Assemble the frame joints, level it, and pump out to required dimensions. Remove hydraulics.
04. Connect restraint chains as per the scheme drawing.
05. Connect hydraulics and individually pressurise all frame ram units to 100Bar (1450 p.s.i). Provide timber packing to sheets if required, close lock off valves and remove hoses.





06. Excavate to underside of the next frame level.

07. Assemble and level the next frame, packing off the ground with timbers as required. (Safe working conditions must be maintained.)
08. Attach the frame to the one above using restraint chains and two ‘D’ shackles at the dedicated points. (Or to top of sheets.)



09. Connect hydraulics and individually pressurise all frame ram units to 100Bar (1450 p.s.i). Provide timber packing to sheets if required, close lock off valves and remove hoses.
10. Complete the dig.

USE, INSPECTION AND MAINTENANCE

Prior to entering the excavation:

- Before first use and at the start of each working shift, a competent person must inspect the excavation, surrounding ground, equipment, edge protection and air quality (if required), to ensure all are satisfactory.
- Ensure operatives have received suitable training and briefings to safely carry out works within the excavation.
- Ensure activities surrounding the excavation are not detrimental to the integrity of the excavation (e.g. surcharges or adjacent digging that have not been considered as part of the original excavation design).

General Maintenance:

- Regularly check that all pins are secured, in place with complete R-Clips
- Replace damaged components.
- Remove debris from hydraulic legs.
- Ensure couplers of the hoses are dirt free (Conquip recommends clipping hose ends together when not in use).
- Ensure there is sufficient volume of shoring fluid in the pump tank.
- When not in use, ensure the hydraulic legs are fully retracted and stored on a suitable firm, level and dry area.

REMOVAL INSTRUCTIONS

01. Backfill to underside of the lower frame and ensure the frame is securely packed or supported from below.
(Or upon a base slab reaching required strength if permitted by the temporary works design.)
02. Remove the restraint chains.
03. Disconnect the corners of the frame to leave individual legs ready for removal.
04. Refer to the hydraulic usage instructions (Retracting / Releasing Frame) on page 16 for retracting legs. Fully retract the legs.
05. Using a certified lifting chain, remove the legs from the excavation; then place them on timbers.
06. Repeat for the remaining frames. Backfill to the underside of the frame, retract it and lift it out.
07. When all frames are removed, the sheets can be removed using a suitable extractor.
08. Disassemble and clean all equipment ready for reuse or collection.

OPERATIONAL PROCEDURES

SAFETY INSTRUCTIONS

BASIC SAFETY NOTES

A site-specific risk assessment and lift plan, where applicable, must be completed by the responsible person before using this equipment to control risks, produce a safe system of work and ensure everyone's safety. The risk assessment will determine the correct Personal Protective Equipment (PPE) for the task being done.



M002
Refer to instructions manual



M004
Wear eye protection



M008
Wear safety footwear



M009
Wear protective gloves



M010
Wear protective clothing



M014
Wear head protection



M015
Wear high-visibility clothing

IMPORTANT SAFETY NOTES

Read these instructions before using this equipment. If there is anything you do not understand or if you have any concerns do not use this equipment. Contact your supervisor or Conquip for advice.

- Check that all the safety requirements for the task have been considered for the task you are doing and that this equipment is suitable.
- Protect bystanders and the general public by preventing access to the working area.
- Do not use this equipment if you are tired or unwell or are under the influence of alcohol or drugs. If you are taking any medicine or undergoing treatment you should inform your supervisor.

USAGE & TRANSPORTATION

- The weight of the equipment, together with its attachments, must be added to the weight of the load when calculating the total load that will be imposed on the lifting apparatus/ operating machine.
- This equipment must be used in conjunction with the load ratings of the lifting apparatus/ operating machine. (Refer to the manufacturers' load ratings and original working instructions.)
- Know how to use this equipment and understand all aspects of its operation in case of emergency.
- This equipment weighs more than 25kg. Do not manhandle without machine assistance.
- Do not operate this equipment near overhead power lines.
- Take care in confined spaces, near ceilings or similar hazards. This equipment is designed for vertical lifting. Do not drag, or swing.
- Before operating this equipment, check there is enough space for you to work safely and make sure that the working area is clear of hazards, obstructions and personnel.
- Before lowering equipment, make sure that the landing zone is clear and capable of accepting the size and weight of the load.
- Crush Risk: keep hands and feet clear of the equipment at all times to avoid injury.
- Do not exceed the maximum Working Load Limit (WLL) shown on the serial plate. Ensure that the WLL on the individual lift points is not exceeded.
- Before lifting, check that the load is secured, balanced and stable. Allow space for the equipment to move if the load shifts.
- Manoeuvre loaded or raised equipment carefully. Travel and turn slowly to avoid unit becoming unstable.

PERSONNEL

- All personnel must wear relevant personal protective equipment.
- Do not wear loose clothing or jewellery and tie back long hair to avoid becoming tangled or trapped in this equipment.
- Make everyone in the work area aware of the operational procedures.
- All personnel involved in the lifting operation must be competent to do so and must have been briefed in conjunction with this user guide.

EQUIPMENT MAINTENANCE & CLEANING

- It is mandatory that the equipment is thoroughly examined regularly, by a qualified engineer, to ensure compliance with relevant regulations. (Conquip recommend to carry out a thorough examination every six months.)
- This product may incorporate various loose and detachable items of lifting gear. Refer to the separate requirements for the safe use of those items.
- This equipment must be inspected by the responsible person before each use and then regularly, as determined by your risk assessment or working practice. If you have any concerns about condition or suitability do not use it.

DO'S AND DON'TS

DO:

- ✓ Contact Conquip Engineering Group if you are unsure about using this equipment.
- ✓ Inspect the excavation and components at the start of every shift. Manhole brace legs should be plumb, square and level. All components fitted showing no signs of damage, distress or fluid / pressure loss.
- ✓ Operate permits to work and hold points.
- ✓ Attach a minimum of four restraining chains per frame (one in each corner).
- ✓ Use suitable lifting equipment at all times.
- ✓ Ensure the surrounding ground profile and all possible surcharges have been included in the design information.
- ✓ Maintain edge protection on all leading edges.
- ✓ Ensure all operatives using the equipment and excavation are fully briefed with a Safe System of Work and appropriate supervision.
- ✓ Obtain a bespoke design where one is required for the specific ground conditions or use case. (Conquip can provide this service).
- ✓ Ensure all pins and clips are fully engaged and secured.
- ✓ Be vigilant for catching fingers.
- ✓ Identify all buried services prior to excavation.
- ✓ Keep operatives clear of active slewing operations.

DON'T:

- ✗ Over tighten lock off valves (if fitted).
- ✗ Allow excessive amounts of spoil to collect on top of the walers / legs.
- ✗ Use excessive force during installation / removal. If items are stuck, pause and consider solutions.
- ✗ Depressurise waler components without adequate support other than hanging chains.
- ✗ Strike the waler or other components during excavation.
- ✗ Use shoring fluid other than that provided by Conquip.
- ✗ Enter a confined space without suitable air monitoring equipment.

TERMS & CONDITIONS

CONQUIP ENGINEERING GROUP STANDARD PRODUCT WARRANTY

01. COMMENCEMENT

1.1 This Warranty shall commence on the Commencement Date and shall continue until the earlier of:

(a) the Expiry Date; or

(b) the date on which it may be voided in accordance with clause 4.1(b)

when it shall terminate automatically without notice.

02. DUTY OF GOOD FAITH

2.1 The Purchaser shall in the exercise of its rights under this Warranty and in the compliance with its obligations under this Warranty be subject to and shall in all respects owe and comply with a duty of good faith to the Warrantor.

03. NATURE AND EXTENT OF COVER

3.1 Subject to clause 3.2 the Warrantor agrees and undertakes to the Purchaser that it shall be liable to the Purchaser under and in accordance with the terms of this Warranty in the event that:

(a) prior to the Expiry Date the Purchaser shall notify a Warranty Claim to the Warrantor; and

(b) the Equipment or any relevant part of the Equipment shall have become unusable as the result of defective material or defective workmanship prior to the Expiry Date.

3.2 The Warrantor's obligation under clause 3.1 shall be expressly subject to the provisions of clauses 4, 5 and 6 and conditional upon the Purchaser's compliance in full with the provisions of clause 7.

04. RESTRICTIONS

4.1 The following restrictions apply to this Warranty:

(a) This Warranty is personal to the Purchaser and neither the legal benefit nor legal burden of this warranty may be assigned or novated or otherwise transferred by the Purchaser to any other party. Any purported assignment, novation or transfer shall not be binding upon the Warrantor.

(b) This Warranty shall be void in the event that the Purchaser:

(i) cannot provide authentic and original documentary evidence that the Purchaser has during the period between the Commencement Date and the Expiry Date complied with the Maintenance and Servicing Requirements; and/or

(ii) has, during the period between the Commencement Date and the Expiry Date, exceeded the Purchaser's Usage Cycle Parameters; and/or

(iii) has, during the period between the Commencement Date and the Expiry Date, exceeded the Purchaser's Use Parameters; and/or

(iv) has carried out, or procured the carrying out by any third party of, any repair to the Equipment or any part of the Equipment which is not an Authorised Repair; and/or

(v) has operated the Equipment after having replaced any part of the Equipment with a part which has not been supplied and fitted by the Warrantor; and/or

(vi) has modified the Equipment in any way prior to use.

05. EXCLUSIONS

5.1 The following are excluded from the scope of this Warranty:

(a) Loss of and/ or damage to the Equipment or any part of it resulting from any collision between the Equipment and any other fixed or stationary or mobile object whatsoever, irrespective of whether that collision was or was not caused by the Purchaser; and/or

(b) Loss of and/or damage to any personal property and/or possessions or other equipment not forming part of the Equipment but which is present in or about the Equipment; and/or

(c) loss and/or damage which is covered by any other insurance policy taken out and maintained by the Purchaser or in respect of which the Purchaser has a contractual obligation to do so; and/or

(d) loss and/or damage to the equipment which is consistent with the use by the Purchaser of the Equipment:

(i) in compliance with the Maintenance and Servicing Requirements; and

(ii) in compliance with the Usage Cycle Parameters; and

(iii) in compliance with the Use Parameters; and

(iv) having only carried out Authorised Repairs to the Equipment; and

(v) having all and any replacement parts fitted by the Warrantor; and

(vi) in unmodified form.

06. LIMITATION OF LIABILITY

6.1 The Warrantor's liability to the Purchaser shall be limited as follows:

(a) The Warrantor shall not in any circumstances be liable to the Purchaser for indirect and/or consequential and/or economic loss suffered and/or incurred as the case may be by the Purchaser; and

(b) The Warrantor shall only be liable to the Purchaser for the reasonable and proper costs reasonably and properly incurred by the Purchaser directly in connection with the repair and/or replacement (at the Warrantor's absolute discretion) of the Equipment or any part of the Equipment; and

(c) The Warrantor's liability to the Purchaser shall notwithstanding any other provision of this Warranty, not in any circumstances exceed the Purchase Price of the Equipment.

07. WARRANTY CLAIMS

7.1 The Purchaser shall in respect of any claim against the Warrantor under this Warranty and within 24 hours of the occurrence of the subject matter of the Warranty Claim:

(a) Complete in full and submit to the Warrantor a Warranty Claim in the form annexed to Schedule 4;

(b) Provide date stamped or date identifiable photographs evidencing the claim; and

(c) Make the Equipment or the relevant part of the Equipment available to the Warrantor for inspection within 48 hours of notification of the relevant Warranty Claim.

08. ENTIRE AGREEMENT

8.1 This Warranty constitutes the entire agreement between the parties and supersedes and extinguishes all previous promises, assurances, warranties, representations and understandings between them, whether written or oral, relating to its subject matter.

8.2 Each party agrees that it shall have no remedies in respect of any statement, representation, assurance or warranty (whether made innocently or negligently) that is not set out in this Warranty. Each party agrees that it shall have no claim for innocent or negligent misrepresentation or negligent misstatement based on any statement in this Warranty.

No variation of this Warranty shall be effective unless it is in writing and signed by the parties (or their authorised representatives).

09. WAIVER

No failure or delay by a party to exercise any right or remedy provided under this Warranty or by law shall constitute a waiver of that or any other right or remedy, nor shall it prevent or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall prevent or restrict the further exercise of that or any other right or remedy.

10. SEVERANCE

10.1 If any provision or part-provision of this Warranty is or becomes invalid, illegal or unenforceable, it shall be deemed deleted, but that shall not affect the validity and enforceability of the rest of this Warranty.

10.2 If any provision or part-provision of this Warranty is deemed deleted under clause 10.1 the parties shall negotiate in good faith to agree a replacement provision that, to the greatest extent possible, achieves the intended commercial result of the original provision.

11. THIRD PARTY RIGHTS

11.1 This Warranty does not give rise to any rights under the Contracts (Rights of Third Parties) Act 1999 to enforce any term of this Warranty.

12. GOVERNING LAW

12.1 This Warranty and any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with it or its subject matter or formation shall be governed by and construed in accordance with the law of England and Wales.

13. JURISDICTION

13.1 Each party irrevocably agrees that the courts of England and Wales shall have exclusive jurisdiction to settle any dispute or claim (including non-contractual disputes or claims) arising out of or in connection with this Warranty or its subject matter or formation.

DESIGN CONFORMITY (EC & UK)

(01) This certificate meets the requirements of the Machinery Directive 2023/42/EC of the European Parliament and Council.

(02) This certificate meets the requirements of the Supply of Machinery (Safety) Regulations 2008.

DETAILS

NAME & ADDRESS OF MANUFACTURER:
Conquip Engineering Group Ltd, Unit 4, Waterbrook Estate, Alton, Hampshire. GU34 2UD

NAME & ADDRESS OF PERSON TO COMPILE TECHNICAL FILE:
Name: Daniel Critchley Address: Conquip Engineering Group, Unit 4, Waterbrook Estate, Alton, Hampshire. GU34 2UD

NAME & ADDRESS OF AUTHORISED REPRESENTATIVE IF ONE HAS BEEN MANDATED BY THE MANUFACTURER:
N/A

NAME, ADDRESS, AND IDENTIFICATION NUMBER OF THE NOTIFIED BODY (01) OR APPROVED BODY (02), WHERE APPLICABLE:
N/A

HARMONISED STANDARDS & REGULATIONS

ITEM	CODE	DESCRIPTION
EC DIRECTIVE/ REGULATION	2023/42/EC	Directive 2023/42/EC- new machinery directive
HARMONISED STANDARDS	BS EN ISO 12100:2010	Safety of machinery General principles for design Risk assessment and risk reduction
	BS EN 14653-1	Manually Operated Hydraulic Shoring Systems for Groundwork Support
OTHER REGULATIONS	LOLER 1998	Lifting Operations and Lifting Equipment Regulations 1998 (LOLER)
	PUWER 1998	Provision and Use of Work Equipment Regulations 1998 (PUWER)

DECLARATION

PLACE OF DECLARATION:
Alton

DATE OF DECLARATION:
August 2026

I declare that the above equipment meets the Essential Health and Safety requirements of the

(01) Machinery Directive 2023/42/EC of the European Parliament and Council.

(02) Supply of Machinery (Safety) Regulations 2008 and Section 6 of the Health and Safety at Work Etc. Act 1974.

NAME:	POSITION:	SIGNATURE:
Daniel Critchley	Chief Executive Officer	

TALKING TO US IS EASY

WE'RE HERE TO HELP

Call us on 0333 300 3470
Email us at sales@cqegroup.com
www.cqegroup.com

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