

ELCOROCK® FILLING FRAME OPERATING AND SAFETY INSTRUCTIONS

WARNING!

- Any alterations to this hire equipment may prove dangerous to the operator and will be in breach of the Equipment Hire Agreement. Service must only be performed by an authorised Geofabrics service organisation or representative.
- Please contact Geofabrics (0800 60 60 20) for return of this equipment or servicing if it is found to be faulty.
- All hire related documentation, operating and safety instructions are available on our website (www.geofabrics.co.nz).



Figure 1

The Elcorock Filling Frame and J-Bins are intended for supporting 2.5m³ ELCOROCK® containers while being filled with sand by excavators.

This document is intended to provide an outline for the safe use of the Elcorock Filling Frame and J-Bins. Refer to the Elcorock Installation Guidelines for 2.5m³ Containers, for a comprehensive explanation of the recommended installation process.

Pre-operational considerations

- Before setting up the Elcorock Filling Frame and J-Bins, it is important that you read and understand the Elcorock Installation Guidelines for 2.5m³ Containers and the maintenance and safety precautions outlined below and in the Equipment Hire Agreement document (Use and Maintenance).
- Contact Geofabrics (0800 60 60 20) if you do not understand any of the instructions in this document.
- To operate the Elcorock Filling Frame and J-Bins, operators must be in good physical and mental condition. Do not operate if on medication or under the influence of alcohol or drugs. Seek medical advice if unsure. The filling frame and bins must not be operated by a minor.
- As the filling and installation of Elcorock products is considered a construction activity, the contractor using the hire equipment must prepare and implement a site safety plan that incorporates the safe work methods for high risk work involving Elcorock Filling Frame and J-Bins. Including the potential need to work at height on the equipment.

SAFETY PRECAUTIONS AND WORKING TECHNIQUES

- As the Elcorock Filling Frames and J-Bins are utilised in conjunction with the operation of large mobile plant and construction equipment, safety precautions must be observed to reduce the risk of personal injury.
- Always use appropriate personal protective equipment (PPE) such as hard hats with brim attached, broad brim hats, safety eye wear with side protectors, sunglasses, sunscreen, high visibility clothing, long sleeve shirts, riggers gloves, steel toe capped boots, etc.
- Personnel involved in sand filling activities must wear hard hats and any other relevant PPE.
- The Elcorock Filling Frame and J-Bins must be assembled as per the Elcorock Installation Guidelines for 2.5m³ Containers.
- Do not use the Elcorock Filling Frame and J-Bins for any application other than its intended purpose.
- Do not abuse the Elcorock Filling Frame and J-Bins in any way which may result in personal injury and/or damage to the equipment.
- Check the condition of the Elcorock Filling Frame and J-Bins before each use for any damage. If the behaviour of the filling frame and bins changes, check it immediately and return it to Geofabrics for service if necessary.
- Never modify the provided equipment in any way.

SITE CONDITIONS

- The contractor should take into consideration site specific planning of the layout and logistics regarding filling, storage and placement will reduce OSH risks, enhance productivity and minimize excessive handling or travelling.
- Consideration should also be given to the filling area founding conditions as many installations of Elcorock containers are conducted on comparatively soft or loose sub-grades such as beaches and riverbanks.
- The filling area must be clear of debris and level with stable founding conditions.

Warning If the works area is not level and base conditions stable, the filling frame/bins could potentially fall over possibly causing injury to personnel/public and/or damage to plant/ equipment.
If ground stability changes due to repeated/prolonged use or changing environmental conditions, cease operations until appropriate remediation works are undertaken to provide on-going stability to the filling frame.

- The Elcorock container filling/placement operation should not be conducted in conditions which will endanger the operator, site personnel or the public.

FILLING PROCESS

- Filling should be conducted as per the Elcorock Installation Guidelines for 2.5m³ Containers.

Warning If there is a need to work from height on the Elcorock Filling Frame and J-Bins, this needs to be taken into account by the contractor's site safety plan.

- Refer to the Health and Safety provisions in Employment Act 1992 regarding the need to take all practicable steps to ensure safety of workers. Further information on how to prevent falls from height can be obtained from the Department of Labour at www.dol.govt.nz and Site Safe New Zealand at www.sitesafe.org.nz
- Ensure that there is only one worker at any one time under the hopper manning the hose valves when sand is being deposited into the hopper. The worker must be wearing a hard hat and be positioned under the protection plate (extends approximately 280mm from side of hopper) whenever sand is being delivered to the hopper.

MAINTENANCE

- All mechanical components should be checked daily, including bolted components, valves and load bearing items.
- To keep the Elcorock Filling Frame and J-Bins performing well in the field, please ensure it is kept clean.
- It is the responsibility of the customer to return the Elcorock Filling Frame and J-Bins in good and clean condition. All damages shall be charged to the customer.
- All routine maintenance and repairs shall be carried out by Geofabrics or its authorised repairer, to ensure the equipment remains reliable.

ELCOROCK FILLING FRAME & J-BIN COMPONENTS

The Elcorock Filling Frame and J-Bins consists of a free standing hopper complete with two J-Bin cradles (Fig 3,4,5) and is accompanied by 2 J-Bin attachments (Fig 7), a number of smaller components are also included to set up the filling frame and bins.

To ensure no parts are lost, all components should be stored and transported as a set, in such a way as not to cause damage to the equipment (Fig 2).



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6



Figure 7



Figure 8



Figure 9



Figure 10



Figure 11

ELCOROCK FILLING FRAME BASE (FIG 5)

- Check the base is not bent or has major dents.

HOPPER COLUMN SUPPORT POST (FIG 3)

- Check the support post is not bent or has major dents.

HOPPER (FIG 4, 6)

- Check the hopper is not bent or has major dents.
- Check all 8 hoses are securely connected and not damaged or blocked.

PROTECTION PLATE (FIG 4, 6)

- Check the plate is not bent or has major dents.
- Check the 3 protection plate bolts are in the utility box.
- Check the 3 protection plate bolts are correct and not damaged.

J-BINS (FIG 7)

- Check the J-Bins are not bent or have major dents.
- Check the quick hitch area is not significantly damaged.

UTILITY BOX (FIG 8)

- Check the utility box has no major dents.
- Check the contents of the utility box:
 - 3 protection plate bolts
 - Hose
 - Clamp and pulley system
 - Circular clamps

HOSE (FIG 9)

- Check the hose is not damaged.

CLAMP & PULLEY SYSTEM (FIG 10)

- Check the clamp is not bent.
- Check the rope is not frayed or damaged.

CIRCULAR CLAMPS (FIG 11)

- Check the clamps not bent or damaged.
- Check the fastening mechanism functions correctly.
- Check the clamps open and close around the filling ports effectively.

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