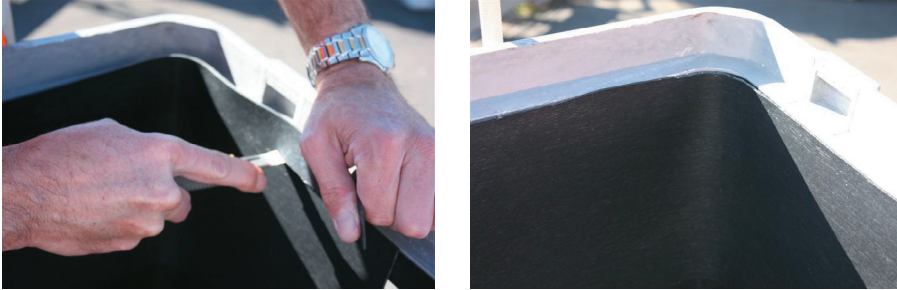


Installation (continued)

8. Carefully run the craft knife blade along the frame to level off the shuttering material to the seat of the frame.



9. Replace cover into frame and install FRP reo cages before pouring concrete collar.

Notes

- If the concrete mix is too dry this may result in voids
- Excessive use of a concrete vibrator may cause the shutter seal to be broken

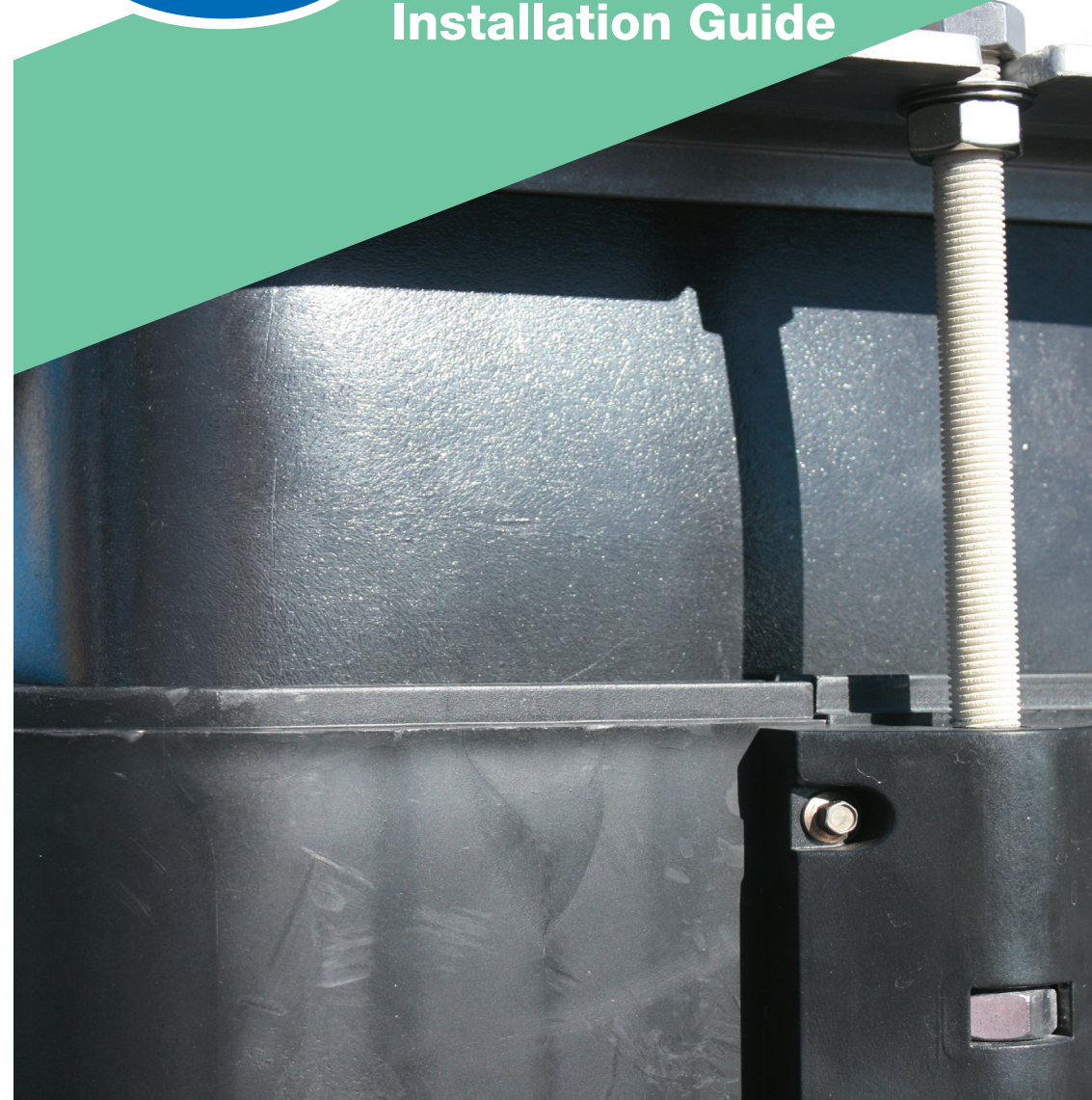
Contact

Humes 0800 502 112

Disclaimer: The purchaser is responsible for correctly applying these installation guidelines. Humes does not accept any responsibility for performance problems, direct, indirect or consequential losses arising from any failure to correctly install the equipment in accordance with these guidelines.



Shuttering Installation Guide



Shuttering system for Humes modular chambers
www.humes.co.nz 0800 502 112

Safety

Throughout the installation process, the site must be properly signed and guarded with suitable barriers to ensure the safety of both staff and public.

Installation should only be undertaken by contractors observing current OSH requirements for trench and pit installations:

<http://www.osh.govt.nz/order/catalogue/pdf/excavation.pdf>

Site safety guidelines of the installation site and surrounding construction sites must be adhered to. Public access routes (e.g. footpaths) must not be used for the assembly and storage of product during installation.

Hazards

Before commencing the installation of the chamber a full site hazard review must be undertaken.

Working in confined spaces has been identified as a hazard in itself and must be treated accordingly.

Typical hazards associated with working with chambers could be:

- Difficulty of access and egress
- Poor ventilation
- Dangerous gases
- Oxygen deficiency
- Dangers from passing traffic (pedestrian and vehicular)
- Objects falling into the open chamber
- Glass fibres (wear gloves when handling cover sets)

Equipment

- Humes shutter pack
- Craft knife
- Cloth to wipe surface clean

Installation

1. Prepare surface of cover set frame and top of the chamber by wiping clean and dry with a cloth.
2. Apply tape to full internal surface of cover set frame and at the top of the inside surface of the chamber.



3. Cut four corner pieces from roll of shuttering material approx 30cm long.
4. Remove red backing from the tape.
5. Bend shuttering material and press into the corner so it adheres to the two strips of tape.



6. Once all four corner pieces have been applied, cut the remaining shutter material to lengths that will fill in between the corners.
7. Apply force by hand to ensure the shuttering material adheres to the tape along all surfaces.

