

clos<sup>•</sup>mat<sup>®</sup>  
hygiene beyond expectation



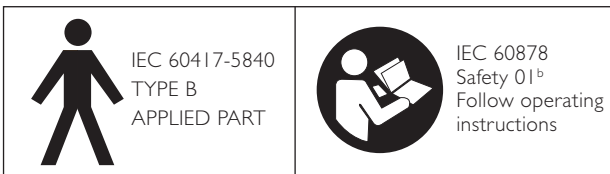
Clos-o-Mat  
installation & user guide



design • manufacture • supply • install • service • recycle

## explanation of symbols

- Safety instructions in this manual are identified by symbols. The safety instructions are introduced by signal words, which express the extent of the hazard/ risk.



- In order to prevent accidents, personal injury, property damage and guarantee maximum patient safety, follow the safety instructions without fail and exercise caution.

## description of equipment

- The Clos-o-Mat Palma Vita is an electrically operated wash and dry toilet designed to provide the operator/user with a hygienic solution to toileting.

## start-up procedure

- To enable a warm washing cycle operation the Clos-o-Mat Palma Vita must be switched on. Each Clos-o-Mat Palma Vita has its own isolation switch. To switch the unit on the location for each switch is as follows;
- Palma Vita – Right hand side of unit at the base of the cistern cover in a through a Perspex screen.
- Lima Vita – Left hand side behind lower vented cover.
- Once switched on the water will reach core temperature within 5 minutes. It is advised to maintain the core temperature in readiness for use the unit be left switched on at all times.

## electrical services

- To avoid the risk of electric shock, this equipment **MUST** only be connected to a supply mains with protective earthing.

### Mains isolation

- All electrical appliances must be installed in accordance to the relevant regulations associated with the country it is within. To conduct any form of repairs or servicing it is recommended that a mains isolation device be located in the vicinity of the unit.
- 220/240v single phase AC supply is required, (loading 10A, maximum power 1300 watts). The Clos-o-Mat Palma Vita is supplied with a 3 core cable attached and **MUST NOT** be removed or replaced. A fused spur is required for isolation.
- Spur outlet to be located in accordance with current I.E.E. Regulations (Current Edition).
- No modification of this unit is allowed other than by the manufacturer.
- **Clos-o-Mat has IPX4 rating.**

## shutdown procedure

- To isolate the Clos-o-Mat Palma Vita from electrical supply using the integrated isolation switch (as detailed in electrical servicing) switch the unit off.

## bathroom/shower room installations

- The Clos-o-Mat Palma Vita must not be in direct line with the shower spray. Some form of partition between shower and the Clos-o-Mat Palma Vita is advisable to prevent any water spraying directly onto the equipment.
- A shower should not be used in conjunction with the Clos-o-Mat Palma Vita i.e. under no circumstances must a user shower whilst seated on the Clos-o-Mat Palma Vita.

## water services (WRAS approved)

- **It is essential that the entering water is cold**
- 15mm cold water service only.
- We would recommend water supply isolated via isolation valve.
- Water supply can be from storage vessel or mains ('Grey Water' **MUST NOT BE USED**).
- Boiler Capacity: 1.7 litres.
- Water rate: min. 8 l/min.  
max. 0.8 PMa (8 bar)
- Cistern capacity: 6 litres.

## overflow

- The Clos-o-Mat Palma Vita has an internal overflow which discharges into the W.C. pan through the flush valve.

## soil connection

- Relevant soil connector to be sourced by installer
- Soil connections suitable for Clos-o-Mat Palma Vita; S-Trap (vertical fall) wall to centre of pipe from 70mm-230mm max. P-Trap (horizontal) floor to centre of pipe 200mm max.
- The Clos-o-Mat Palma Vita is suitable for all turned trap outlets, through purpose made removable side covers on lower level.

## further notes

- No permanent hand rails or other obstructions should be fitted across the front or top of the unit. The white outer casing has to be pulled upwards and forward to remove for servicing purposes.
- If extended douche option is specified, space must be made to accommodate douche arm which extends beyond rear of casing. Optional infill panel available to avoid the need to chase wall.
- Unit not rated for altitude. 2000m is the maximum.
- This application requires an earth connection.
- Environmental conditions – operating ambient room temperature maximum = 60°C.

## environmental conditions

The Clos-o-Mat Palma Vita is rated to IPX4 and can be installed and operated within a typical shower/toilet room.

## infill panel

The infill panel specifications are printed on the back cover.

## classification

Medical Device Class I certified EN60601-1-1: 2007/AC: 2010.

## cleaning information

- The use of bleach products is not advised due to the exposed metal parts associated with the washing device. (tarnishing may occur).
- The Clos-o-Mat Palma Vita washing device is designed to self cleanse during and after every use. Normal cleansing of the bowl and outer covers is required.

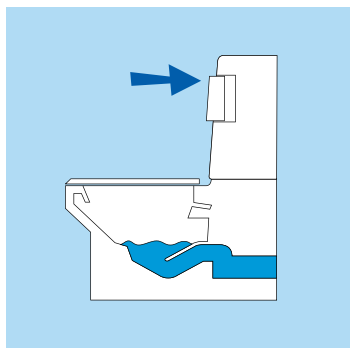
## maintenance and frequency of serviceable parts

- The Clos-o-Mat Palma Vita is self-sufficient but it is recommended that a competent experienced Service Engineer carry out an annual service of the internal workings.

## risk associated with the waste of equipment after service life

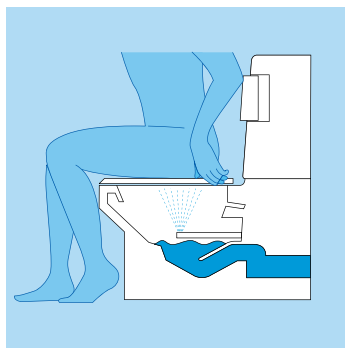
- All Clos-o-Mat Palma Vitas have a life expectancy of 15 years or more. At the stage the unit is not repairable it can be discarded to any appropriate recyclable plant. There are no immediate risks to the environment.

# user guide



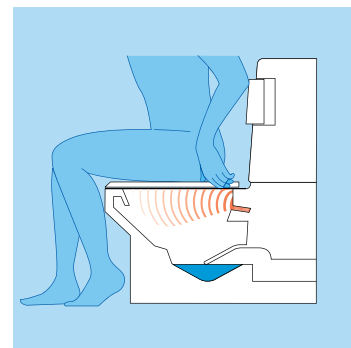
## Flushing

Press either elbow pad whilst standing for conventional flush



## Washing

Press elbow pad whilst seated and hold in for approximately 10-15 seconds, flushing and warm water washing take place simultaneously

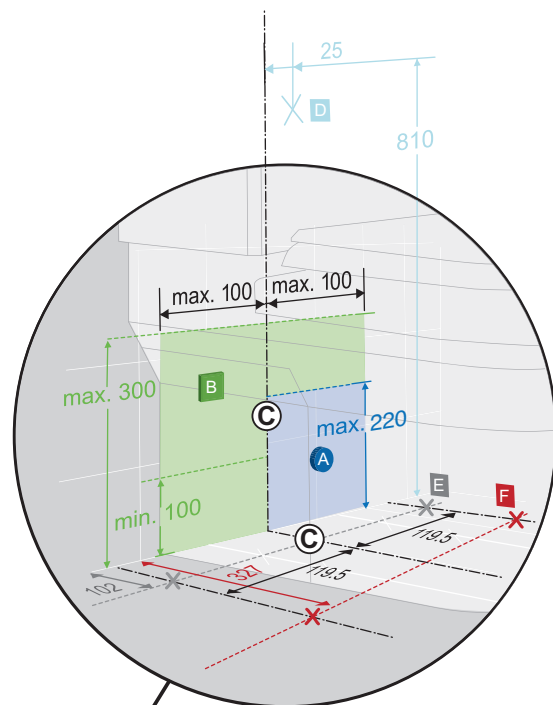
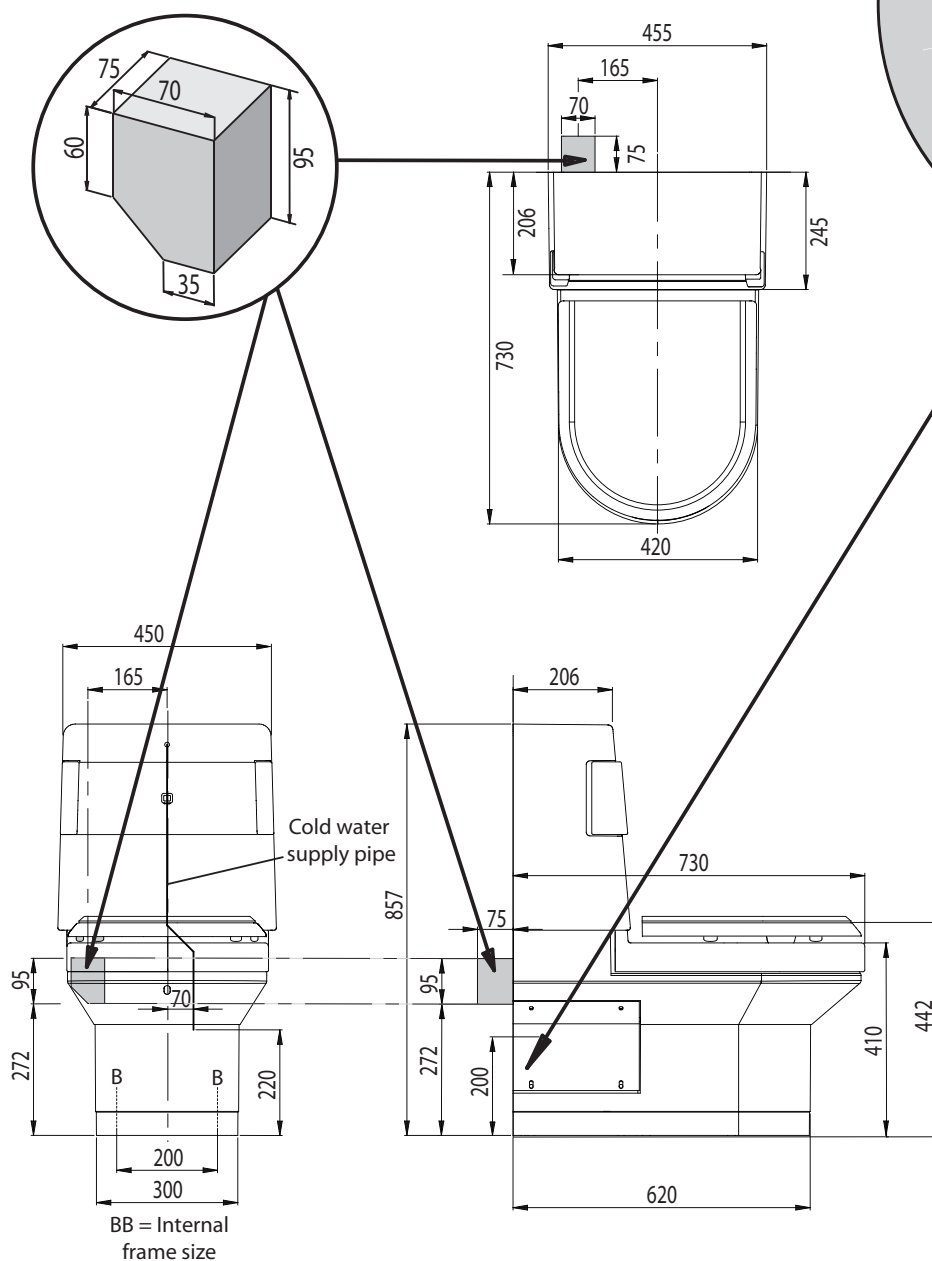


## Drying

Warm air drying automatically follows when elbow pad is released

# planning data and service requirements

Diagram A



## A Water services

Connection point is a 15mm copper pipe that is positioned 70mm to RH of the centreline of the Clos-o-Mat. 220mm from finished floor level.

## B Electrical services

Position between 100mm-300mm from finished floor level, 50-100mm left or right from centreline of toilet.

## C Waste details

Pan spigot is horizontal outlet  $\varnothing$ 200mm from finished floor level. Waste can exit to rear, left or right. For waste in floor, soil pipe needs to be positioned between  $\varnothing$ 70-230mm from finished wall surface.

## D Rear wall fixing

Position 25mm to RH of the centreline. 810mm from the floor.

## E Rear floor fixing (2No)

(Standards Installations)  
Position on the floor 102mm from the rear wall. 119.5mm to each side of the centreline.

## F Front floor fixing (2No)

(When using Support Arms)  
Position on the floor 327mm from the rear wall. 119.5mm to each side of the centreline.

closomat™

PALMA VITA

220-240V, 50hz

10A IPX4



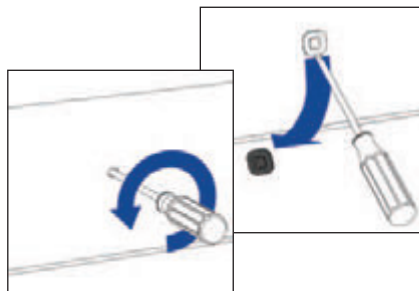
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# installation

- 1** Carry the Palma Vita to the point of installation. Do not lift the appliance by the motor/pump unit. Grip inside the W.C. pan and vertical frame member.



- 2** Remove the white casing by unscrewing the holding screw located underneath the square rubber bung.



- 3** To remove lift upwards and forwards.



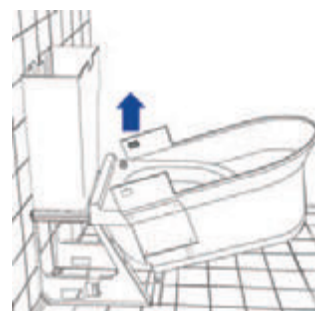
- 4** Remove self-tapping screw from lower case and face of pan.



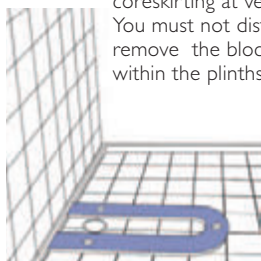
- 5** Retract rear lower cover spring clips at the rear of the frame.



- 6** Removal of lower covers from framework.



- 7** If a plinth is to be fitted, it must be secured to the floor in the designated positions, then the unit must be secured to/through the plinth. Each plinth can be cut in length to suit each situation i.e. scribed to coreskirting at very low pipes. You must not disturb or remove the blocks from within the plinths.



- 8** Site the Palma Vita in correct position ensuring that soil connection is achievable. Temporarily mark positions of bolt holes on floor/wall (through the frame).

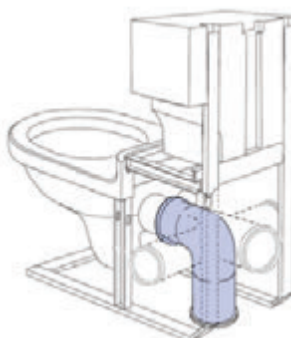
Spacer bolts are fitted to the frame to ensure correct distance between finished wall and frame. These should not be buried in the wall finish, otherwise the outer casing would be pushed too far forward, preventing the flushing levers from operating the flush mechanism and the micro switch (operating pump/motor and douche) from being depressed.



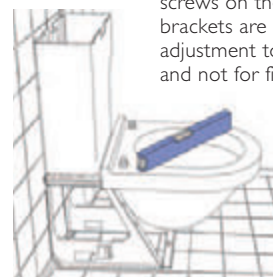
- 9** Remove the Palma Vita from position and drill suitable holes in the floor (dependent upon floor finish).



- 10** Fit appropriate soil pipe connector to porcelain pan.

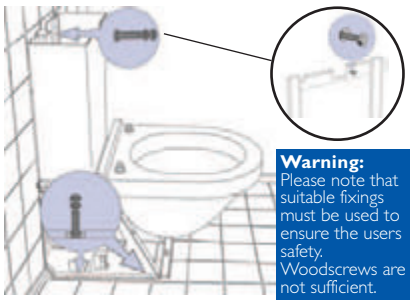


- 11** Check that the unit is carefully aligned in all directions. Level the Palma Vita using levelling screws in the floor brackets. Small screws on the floor brackets are only for adjustment to floor level and not for fixing.





- 12** To attach Palma Vita to the floor/wall, fix suitable bolts or fixings through the frame and secure the unit in place.

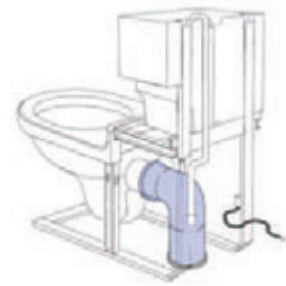


**Warning:**  
Please note that suitable fixings must be used to ensure the users safety. Woodscrews are not sufficient.

- 13** Cold water connection is via a 15mm connection pipe at the rear of the unit (see diagram). We would recommend the supply pipe enter the unit through the floor or through the wall. If side entry is necessary then a suitable infill panel will be required. The provision of a isolation valve is always recommended.



- 14** Connect electrical supply (see planning data and service requirements - at beginning of this manual) in accordance with current I.E.E. Regulations.



- 15** Replace lower covers in reverse.



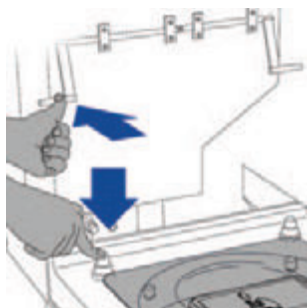
- 16** Replace self-tapping screw to front lower cover.



- 17** Replace cistern cover taking extra care not to prevent the flush function by blocking the flush paddles.



## test procedure



- 1** Fill Palma Vita with water and switch on electricity supply; allow approximately 5 minutes for water in heating compartment to reach operating temperature. Check for any leaks on the unit or connections.

- 2** Check manual flushing of the unit by pressing either of the two elbow pads.

- 3** Lift the seat lid and press downwards at back (this closes switch in hinge normally operated by user sitting down). With this depressed, press either elbow pad and keep pressed. Douche arm will now emerge from housing and spray with warm water. As the arm emerges cover spray with other hand and allow water to run cool (approx. 20-25 seconds). Release elbow pad, but maintain pressure on seat lid; the douche will now retract and warm air dryer will operate until cycle is completed i.e. until the seat switch is released.

### note

- The Palma Vita will not function automatically if the seat switch is not depressed.
- The unit should be switched on electrically at all times when in service.



## check procedure

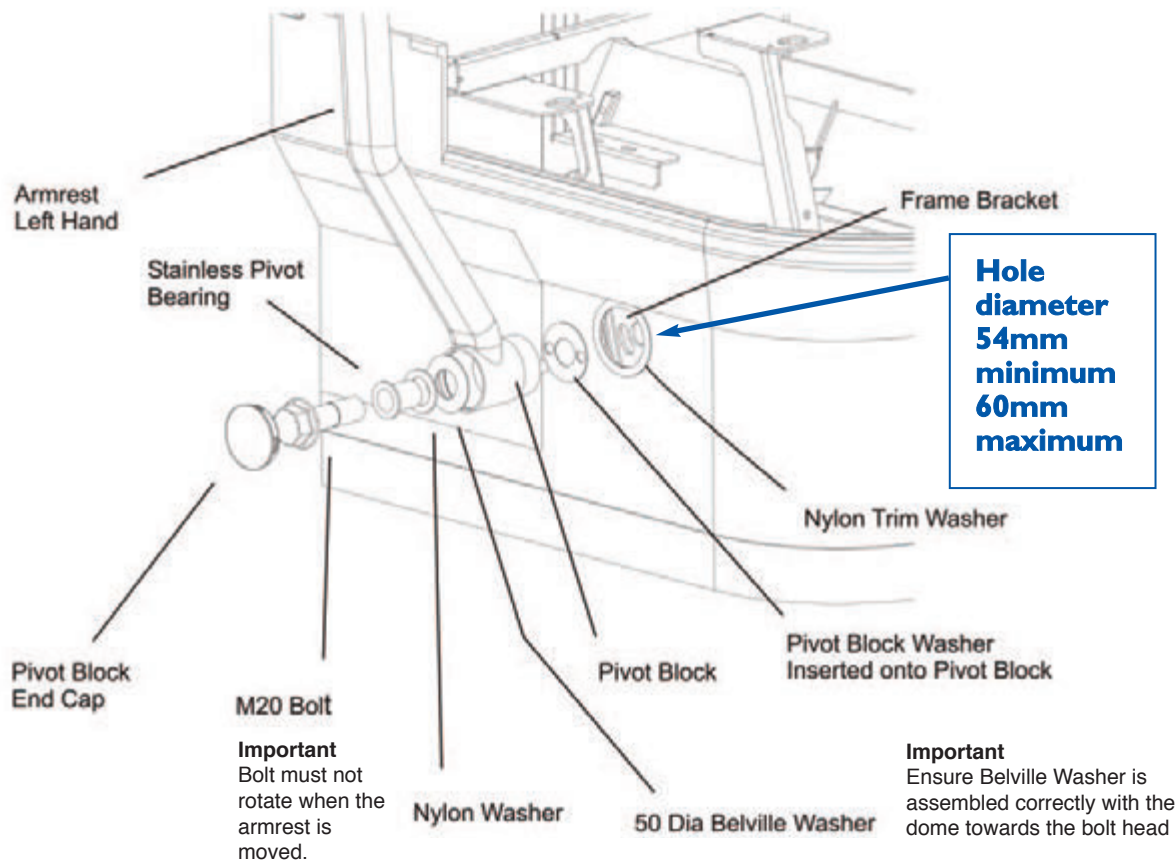
- 1 Ensure electrical supply is connected to unit, and switched on: check that correct fuse is fitted.
- 2 Ensure water supply is turned on and that the ball valve is allowing water to enter the cistern and shutting off at correct level. Ensure flow of water is adequate to keep douche supplied.
- 3 Ensure rear of seat is depressed.
- 4 Keep elbow pad depressed until water runs cold. Keep seat depressed while hot air is operating.

### note

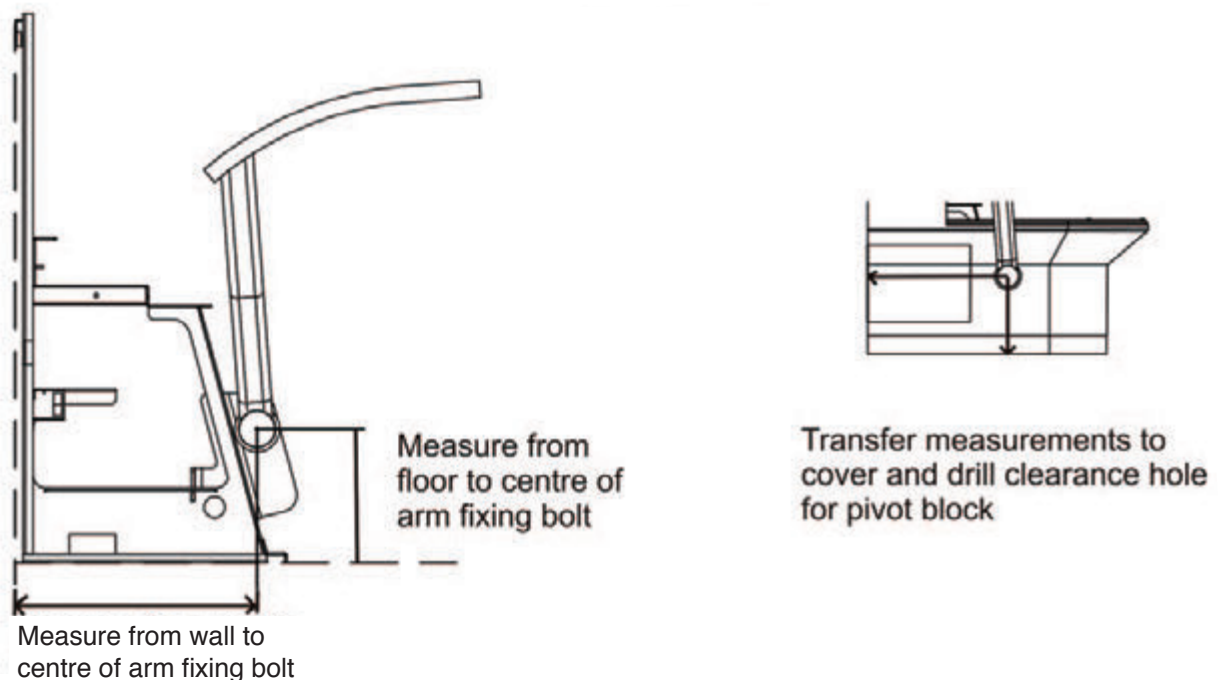
- Foot switch, hand switch or remote switch, if fitted, will operate exactly as elbow pads.
- Douche temperature and pressure are preset at factory, and adjustments should only be carried out by Clos-o-Mat engineers familiar with the equipment.

Please advise us of installation address in order that we can arrange the Commission and activate the 12-month guarantee.

# palma integrated fold-down support arms installation

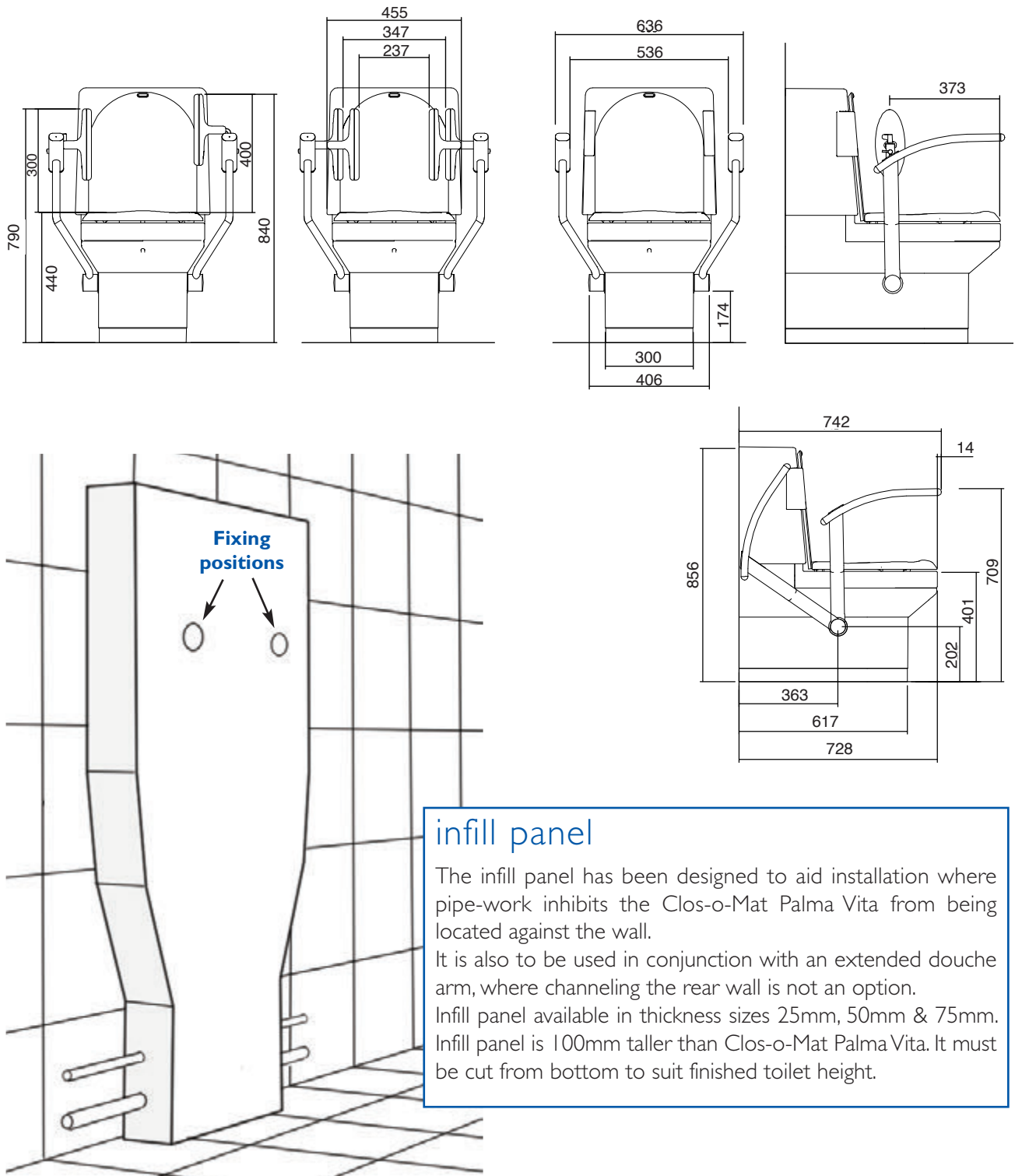


## how to drill holes in the cover if armrests are fitted



# palma integrated fold-down support arms

## technical data



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