

10. Guarantee

This product is guaranteed against faulty materials and workmanship for 12 months from date of purchase. For the guarantee to be valid, the unit must be installed by a competent person, in accordance with the instruction booklet.

Any part found to be defective during the guarantee period, will (at our option) be repaired or replaced, free of charge, provided the unit has been installed, and properly used in accordance with the instruction booklet.

This guarantee does not affect your statutory rights.

Service Policy (Available in UK and ROI only)

In the event of a product or component fault, firstly follow the general fault diagnosis procedure to ensure the difficulty can be resolved.

If the fault can not be identified using the procedure, call the installer to check installation is correct.

Failing this, please contact the Customer Service Department on the telephone number below.

Have following information prepared, to help identify the product:
Model type, Date of purchase, unit serial number (if available).

The Customer Service Department will attempt to diagnose the cause of the fault and advise the necessary action to resolve the problem over the phone.

If the fault can not be resolved and a service call is required, a Site Visit Request form will be sent to you to complete and return.

Where applicable a fixed fee payment for parts and/or labour will be levied. The cost incurred and payment methods will be advised over the phone and on the Site Visit Request form.

A completed form, along with payment (if applicable) must be received before the Service callout can be arranged.

If the problem is not product related or is a component not of our manufacture, a fixed fee will be made to cover Site Visit costs. Additional costs for parts used to rectify the non-product related problem may be imposed.

During the visit, yourself or a responsible person should be present at all times. Charges will be made if the Service Engineer or Agent can not gain site access at the prearranged time.

Ensure water and/or electricity supplies have adequate isolation to the unit. If the unit is concealed, serviceable access should be available. If servicing difficulties arise from not making the provisions detailed, additional time related costs or a recall charge will be imposed.

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DOC M PACKS

LANTAC APPROVAL NUMBER 352-5-7133

Please keep these instructions for future reference

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1. Introduction

Your Doc M Showering Pack offers you product in order to comply with the governments regulations on access to and use of buildings for disabled people. The LANTAC Approval gives you confidence that the product has been scrutinized by Building Control for its compliance with the regulation and with BS 8300:2001 Design of buildings and their approaches to meet the needs of disabled people - Code of Practice.

These instructions are for your guidance to a safe and successful installation and should be left with the user. Everything within this pack should enable you to install your showering system to the requirements of Document M of the government's regulation.

2. Specification

TMV3 Lever Sequential Thermostatic Mixer Valve:

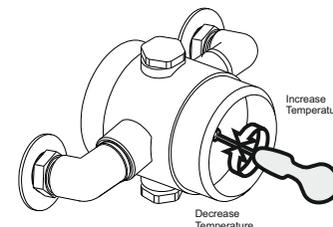
Inlet Connections:	15mm compression with swivel elbows
Outlet Connections:	½" B.S.P. / 15mm compression adapter
Water Pressures:	Min. 0.1 bar - Max. 5 bar pressure drop for correct mixing. Maximum static pressure: 10 bar
Maximum blend temperature:	43 degrees celsius (factory set can be reset on site please see TMV3 booklet for commissioning)
Hot supply temperature:	Min. recommended 60 degrees celsius Maximum 80 degrees celsius
Thermostatic Control Range	38 - 45 degrees celsius
Grab Rails:	35 mm diameter at a clearance of 60 mm from the wall
Drop-down Grab Rails:	32mm diameter
Shower Curtain Rail:	28mm diameter

7. Setting Maximum Temperature

- 7.1 Remove the centre indice to reveal retaining screw.
- 7.2 Turn the shower control fully anticlockwise to the maximum temperature position.
- 7.3 Remove the retaining screw and seal.

Note: water will flow from the centre hole - this is normal.

- 7.4 Using a small thin bladed screwdriver, locate the temperature adjusting screw.
- 7.5 To increase temperature turn anticlockwise. To decrease temperature turn clockwise. See below.



- 7.6 Use a suitable temperature measuring device to set the outlet temperature within the thermostatic control range (see **Specifications** section).
- 7.7 Turn the shower off, replace the retaining screw re-fit the centre indice. To check thermostatic response, please check to the TMV3 booklet.

8. Cleaning

- 8.1 These finishes should be cleaned using a mild washing up detergent or soap solution, rinsed with clean water and wiped dry with a soft cloth.

9. Maintenance

If your Thermostatic Mixing Valve fails to operate it could be the result of incorrect installation. Please refer to installation and sit requirements. If the valve has operated correctly for a time, but no longer performs acceptably, it may require servicing/cleaning. Proceed as follows;

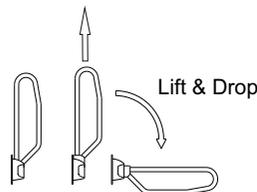
- 9.1 Isolate hot and cold supplies.
- 9.2 Remove the headwork assembly and spline adaptor if applicable
- 9.3 Unscrew the cartridge (standard right hand thread).
- 9.4 Remove the thermostat, distributor assembly and spring.
- 9.5 Remove all visible 'o' rings and washers from the body, clean and replace if necessary and re-grease and re-assemble.
- 9.6 Re-assemble all the components back into the body. Turn on supplies and test the shower.

Note: Prior to drilling the finished walls care should be taken that no hidden cables or pipes are in the area to be drilled and care should be taken not to damage the finished wall.

- 5.8** Once the walls have been finished with the hot and cold supply pipes in position mark out and drill the finished wall to suit the shroud / backplate fixings. Secure the shroud / backplate using the fixing screws and wall plugs (if required).
- 5.9** Connect the hot and cold supplies to the shower valve and secure valve to the shroud / backplate using the grub screws and hexagonal key supplied. Locate the shroud over the lever and push shroud onto the shroud/backplate.
- 5.10** Assemble the short vertical tube, diverter, bottom vertical riser tube, connector and top vertical riser tube to the shower body using the cone nuts, olives, adapter and the one compression nut to secure.
- 5.11** Push the horizontal arm onto the top of the vertical riser tube. Using as a template mark the fixing screw locations. Remove the arm as well as the top vertical riser tube and drill wall to suit the wall plugs supplied (if required).
- 5.12** Slide the bottom rail support and slider rail over the bottom vertical riser tube with the lock pin in position locating in the hole in the slider rail. Now slide the connector and the top vertical riser tube down the centre of the slider rail and onto the bottom tube. Finish the assembly by dropping the top rail support over the two tubes and fix the whole assembly using the horizontal arm.
- 5.13** Mark the required fixing holes for the slider rail wall brackets ensuring the handset holder is at the required height detailed on page 6.
- 5.14** Disassemble the riser tubes and the slider rail, drill wall to suit the wall bracket fixing screws and wall plugs (if required).
- 5.15** Secure the wall brackets to the wall using the fixing screws and wall plugs (if required). Re-assemble all the vertical riser tubes and slider rail securing the riser rail to the wall bracket using the grub screws and hexagonal key. Re-position the horizontal arm to the vertical tube, secure using the fixing screws and attach shower head using washer.
- 5.16** Attach the handset to the cone nut end of the hose using the washer to seal the joint. Attach the other end of the hose to the diverter using the other washer to seal the two.
- 5.17** Turn on the supplies to the shower valve and turn the shower on and check all joints and connections for leaks (operating the diverter in both positions, fixed head and handset).

6. Use of Product

- 6.1** The product contained in the pack has been manufactured to the highest standards. The rails have been produced in stainless steel to prevent rusting and then powder coated for durability.
- 6.2** The drop down grab rails are manufactured in aluminium and powder coated for durability. The grab rails themselves have a locking mechanism so they can be stowed in the upright position. From the stowed position the rail is lifted slightly allowing the user to swing the arm through 90° to the horizontal position. When swung from the horizontal to the vertical, the rail drops into the Locked position (See fig.1).
- 6.3** The shower can be turned on by rotating the control lever in an anti-clockwise direction to turn on, continue to rotate until the required shower temperature. To reduce the temperature and to switch off rotate the lever clockwise.
- 6.4** To switch between the handset and shower head rotate the diverter handle between its two positions to change between the two.

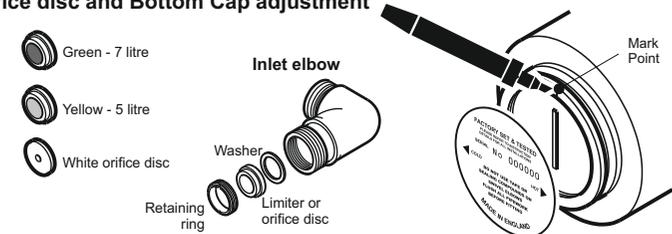


3. Site Requirements

Supply System		Flow Limiter		Comments
Cold Supply	Hot Supply	Cold	Hot	
Gravity 0.1 to 1.0 bar	Gravity 0.1 to 1.0 bar	No	No	Maximum pressure loss ratio 5:1
1 to 5 bar or Pumped	1 to 5 bar or Pumped	Green (7 litre)	Yellow (5 litre)	# Use arrangement for pumped system
Mains 1.5 to 10 bar	Gravity 0.1 to 0.2 bar	White Disc	No	
	Gravity 0.2 to 0.5 bar	Green (7 litre)	No	
	Gravity above 0.5 bar	Green (7 litre)	Yellow (5 litre)	
	Unvented Mains/ Mains Pressurised			
	Instantaneous Gas Water Heater	Green (7 litre)	*Yellow (5 litre)	**Open Bottom Cap ½ turn anti-clockwise
	***Instantaneous Electric Water Heater	Green (7 litre)	No	**Open Bottom Cap ½ turn anti-clockwise
Any Vented (open outlet) heater gas/electric. Eg electric shower	DO NOT USE WITH MIXER VALVE- THIS WOULD BE EXTREMELY DANGEROUS			

- # Limiters can be fitted if water economy is required.
- * Yellow (5 litre) limiter may not be necessary on some gas heaters.
- ** The bottom cap is factory set at 3/4 turn from fully closed position.
- *** **IMPORTANT!** - It is a requirement of Instantaneous Electric Water Heaters that a stable flow of water passes through the heater. This requirement can be satisfied by using a flow stabiliser (960060) fitted prior to the heater and should be adjusted to give a temperature of between 45-50°C from the heater.

Fitting limiter or orifice disc and Bottom Cap adjustment



Remove wall bracket from mixing valve (see Installation). Peel off label to reveal Bottom Cap, with a marker pen, mark a point in-line with slot. Turn extra anticlockwise ½ (180°) turn using a screw driver.

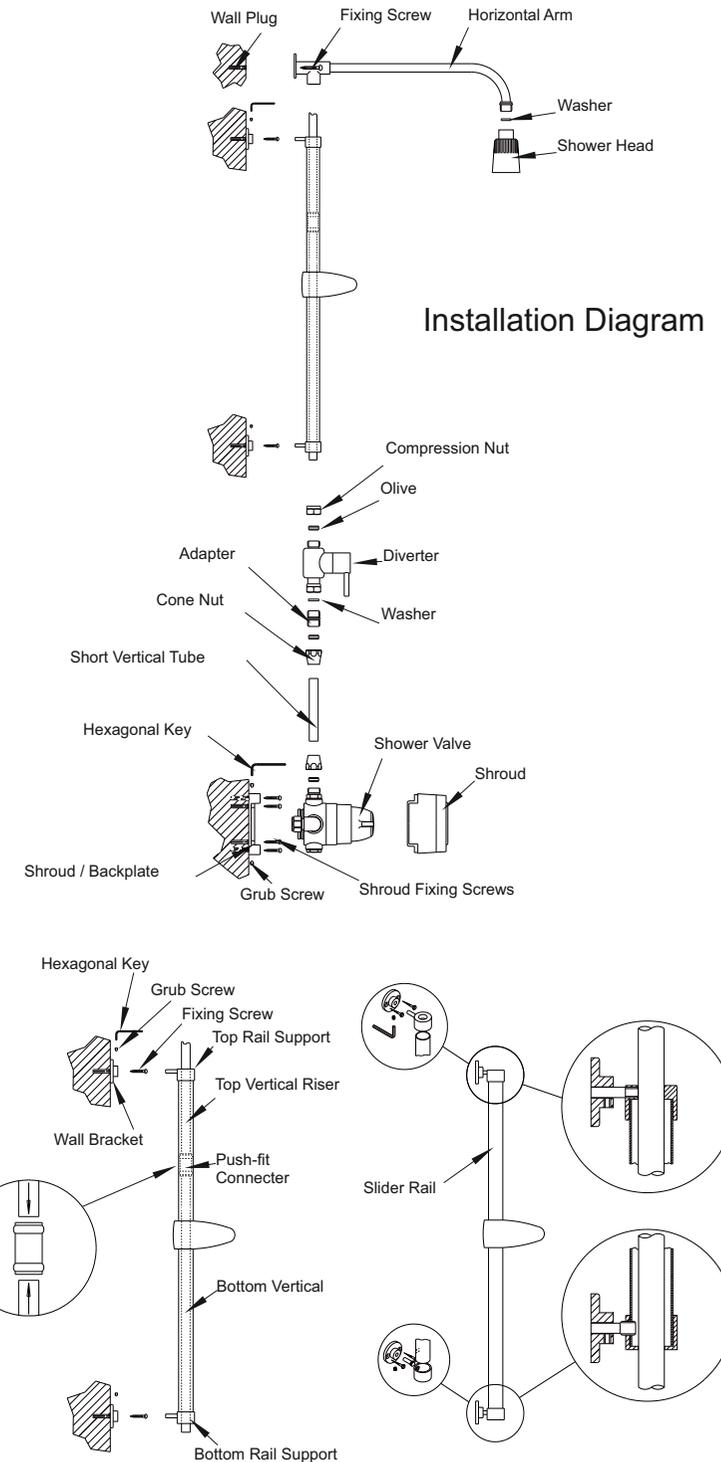
4.Pack Contents Checklist

Shower Kit including:

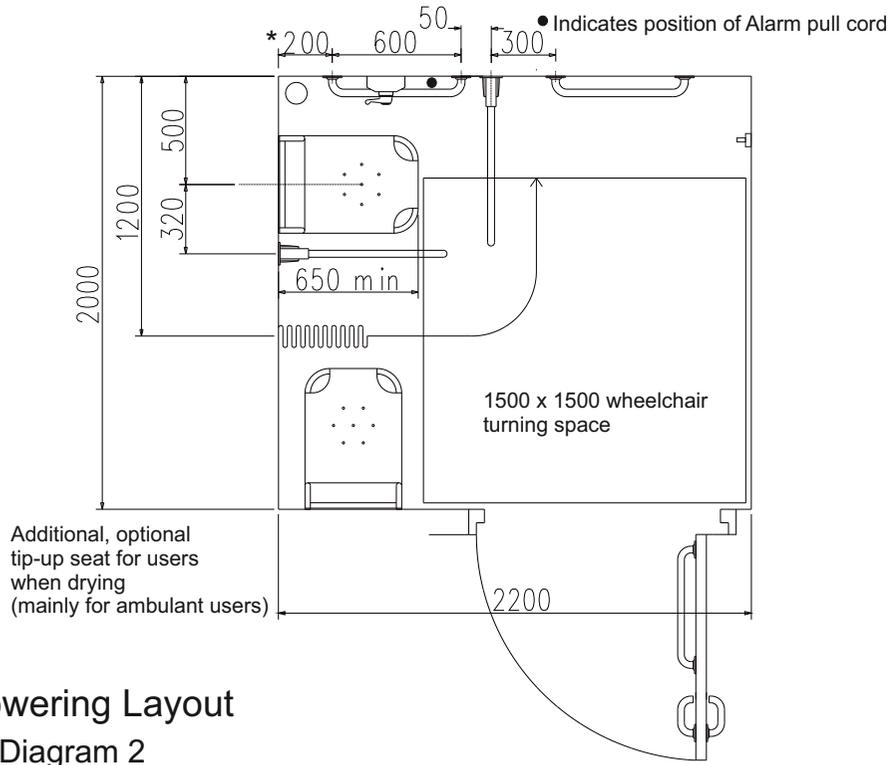
Diverter	<input type="checkbox"/>
Flexible Hose and Handset	<input type="checkbox"/>
Fixed Riser with Vandal Resistant Head	<input type="checkbox"/>
Anti-Scald, TMV3 Lever Sequential Thermostatic Mixer Valve	<input type="checkbox"/>
Tip-up Showering Seat	<input type="checkbox"/>
Drop-down Grab Rails (2 off)	<input type="checkbox"/>
Grab Rails (3 off)	<input type="checkbox"/>
Shower Curtain Rail	<input type="checkbox"/>
Shower Curtain and Hooks (2 off packs each)	<input type="checkbox"/>
Fixing Kit	<input type="checkbox"/>

5.Installation

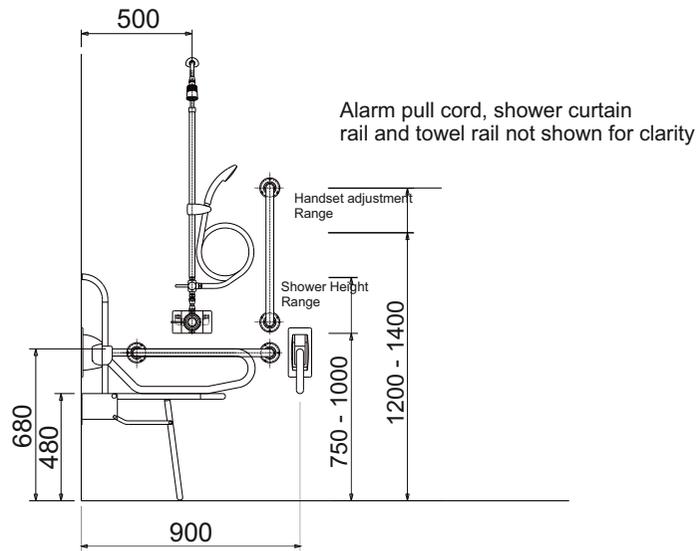
- 5.1** Identify all components and check for completeness, particularly before arranging fitting.
- 5.2** The mixer should be installed in compliance with Water Regulations. For further Details contact your Local Water Authority or a registered plumber or the Secretary, Institute of Plumbing, 64 Station Lane, Hornchurch, Essex. RM12 6NB. Telephone: **01708 472791**
- 5.3** In order to comply with the requirements of the Approved Document M the following provisions must be accounted for:
Wheelchair-accessible changing and shower facilities will satisfy Requirement M1 or M3 if: **For changing and shower facilities**
- A choice of layouts suitable for left-hand or right-hand transfer is provided when more than one individual changing compartment or shower compartment is available;
 - They are provided with wall mounted drop-down support rails and wall mounted slip-resistant tip-up seats (not spring-loaded);
 - In communal shower facilities and changing facilities, they are provided with subdivisions that have the same configuration of space and equipment as for Self-contained facilities but without doors;
 - In sports facilities, individual self-contained shower facilities and changing facilities are available in addition to communal separate-sex facilities;



* 200 dimension should be 250 respectively to meet DOCM



Showering Layout
Diagram 2



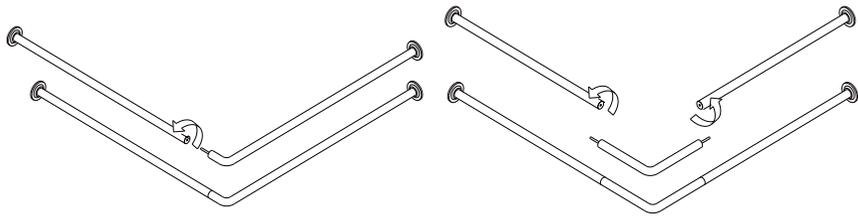
- f. An emergency assistance alarm system complying with the following is provided:
Any emergency assistance alarm system has:
- Visual and audible indicators to confirm that an emergency call has been received;
 - A reset control reachable from a wheelchair and the WC, or from the wheelchair and the shower/changing seat;
 - A signal that is distinguishable visually and audibly from the fire alarm.
- g. Facilities for limb storage are included for the benefit of amputees;
N.B. Limb storage is not included in this pack to the installer the option of selecting appropriate storage for the type of premises the packs being fitted to.

For changing facilities

- The minimum overall dimensions of, and the arrangement of equipment and controls within, individual self-contained changing facilities comply with Diagram 1 page 7 of this booklet (extracted from Approved Document M);
- When associated with shower facilities, the floor of a changing area is level and slip resistant when dry or when wet;
- There is a manoeuvring space 1500mm deep in front of lockers in self-contained or communal changing areas;

For shower facilities

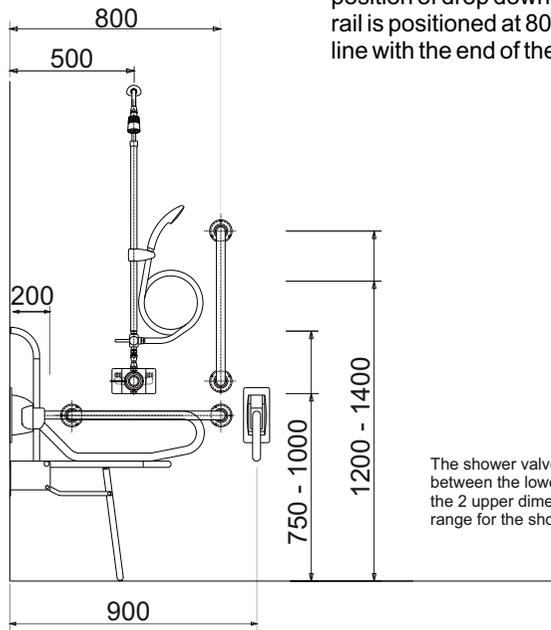
- Individual self-contained shower facilities comply with Diagram 2 page 8 of this booklet (extracted from Approved Document M);
 - Where showers are provided in commercial developments for the benefit of staff, at last one wheelchair-accessible shower compartment complying with Diagram 2 should be provided;
 - A shower curtain, which encloses the seat and the rails when they are in a horizontal position, can be operated from the shower seat;
 - A shelf that can be reached from the shower seat or from the wheelchair, before or after transfer, is provided for toiletries;
 - The floor of the shower or shower area is slip resistant and self draining;
 - A shower terminal fitting complies with Guidance Note G18.5 of the Guidance Document relating to Schedule 2: Requirement of Water Fittings, of the Water Supply (Water Fittings) Regulations 1999, SI 1999/1148, and the markings on the shower control are logical and clear;
 - Where wheelchair-accessible shower facilities are available in communal areas, shower controls are positioned between 750 and 1000mm above the floor;
- 5.5** During installation the product should be secured to the walls using appropriate fixings. Fixings are supplied and loads tested based on the correct installation. For the drop down rails and the tip up seat, the fixings supplied are 10mm expansion bolts for use with solid walls.
The grab bar rails, shelf and thermostatic valve are supplied with wall plugs and screws as appropriate for solid walls and need to be set out to the dimensions detailed in diagram 1 and 2.
- 5.6** Installation of the shower curtain rail has been designed based on the other product and may come in either two or three sections as indicated:



Each section of the shower curtain rail should be screwed together securely before fixing to the wall.

5.7 It is advisable that having checked the contents of the box that you mark out the positional requirements of the product in accordance with Diagrams 1 & 2.

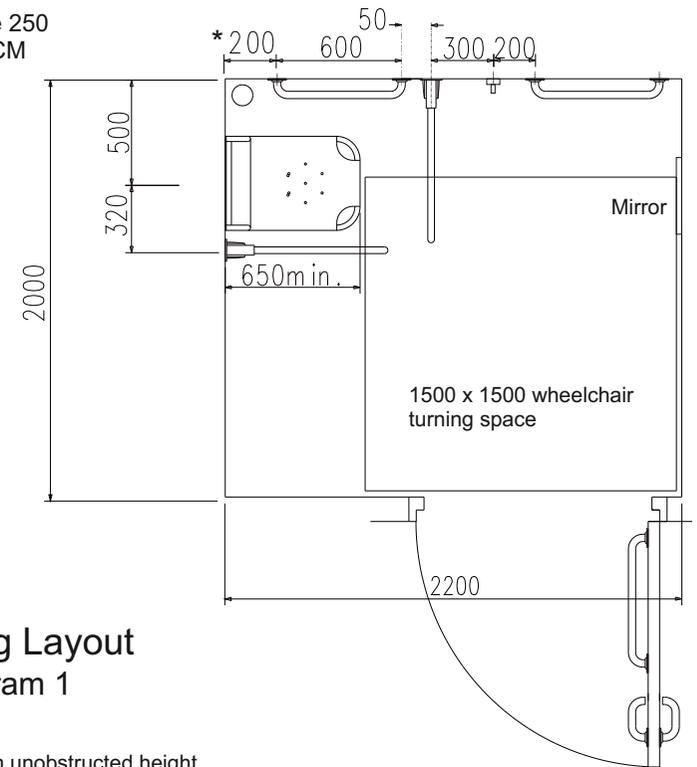
The diagram shown to the left has the horizontal grab rail positioned at 200mm from the corner. This avoids a clash with the position of drop down rail. The vertical grab rail is positioned at 800mm from the floor in line with the end of the horizontal grab rail.



The shower valve needs to be installed between the lower 2 dimensions and the 2 upper dimensions indicate range for the shower handset adjustment

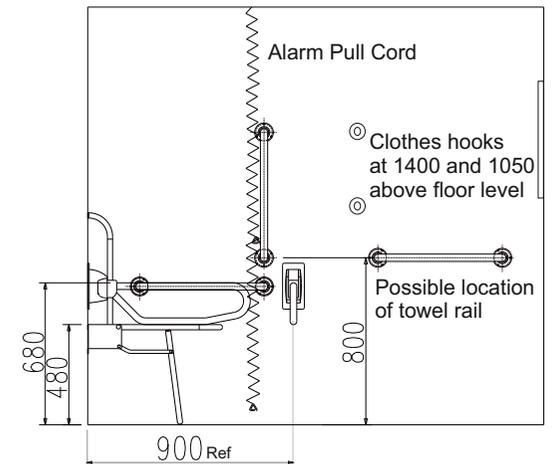
Shower controls shown must fall within the 750mm to 1000mm above the floor requirement. Positioning the centre of the Shower Diverter at the 1000mm height sets the thermostatic mixer valve at a height such that it does not interfere with the rails. Adjustability of the shower handset is greater than the required heights but should be operable between the 1200mm and 1400mm heights shown.

* 200 dimension should be 250 respectively to meet DOCM



Changing Layout Diagram 1

2100 minimum unobstructed height



N.B. The above diagram is to the dimensions given in Approved Document M and will give a clash between the horizontal and vertical grab rails and the drop down rail. Either the grab rails may be moved or the drop down rail itself (choice is left to the installer) but it would be recommended to move the horizontal grab rail to start at 200mm and not 250mm as directed by the Doc M guide dimensions. The drop down rail maintains its position of 900mm from the corner.

Interference with the drop down rail when installed to published dimensions is stated in the above elevation view and applies to both diagrams 1 & 2.