

# Wet area lining system

## Wallboard installation

### 1) Non tiled areas

Fasteners shall be fixed at 20cm centers along all sides of the edge and at 30 cm maximum centers in the body of the sheet

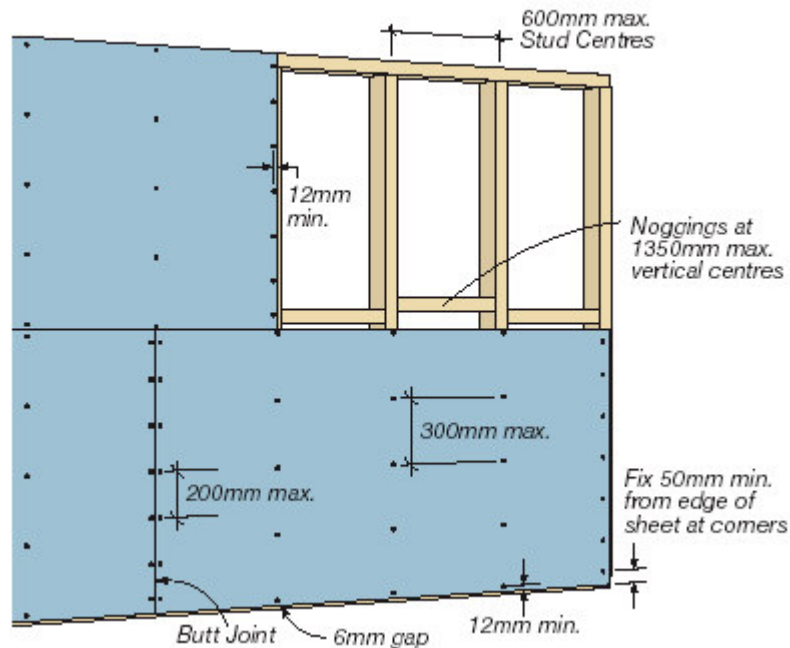


Fig 1 : Wallboard installation. Fastener method non tiled areas.

### 2) Tiled areas

Fasteners shall be fixed at 20cm centers along all sides of the edge as well as in the body of the sheet. The maximum weight of the wall tiles is 20 kg/m<sup>2</sup>. To hold the wall tiles weighing heavier than 20 kg/m<sup>2</sup>, the board must be fixed at 10cm maximum centers to all studs.

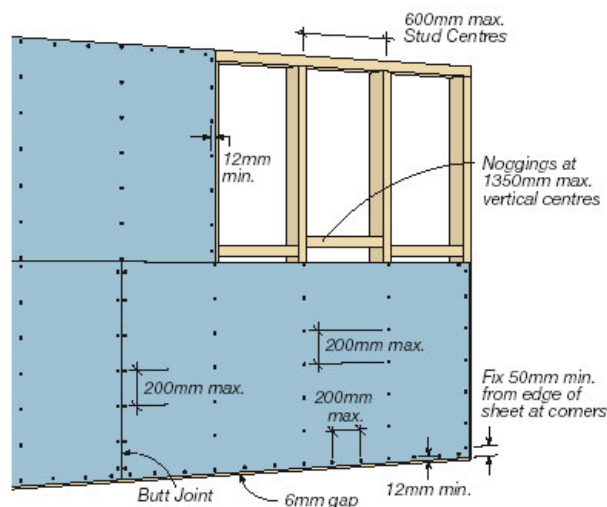


Fig 2 : Wallboard installation. Fastener method tiled areas.

## General wet area flashing

In all general wet areas, the perimeter flashing is applied at the junctions of wall and floor. It must extend at least 25mm above finished floor level. Methods of installing perimeter flash are suggested as follows.

- 1) **Perimeter angle flashing** : 75 x 50mm of PVC flashing is applied by adhering shorter end to floor only to allow frame movement.

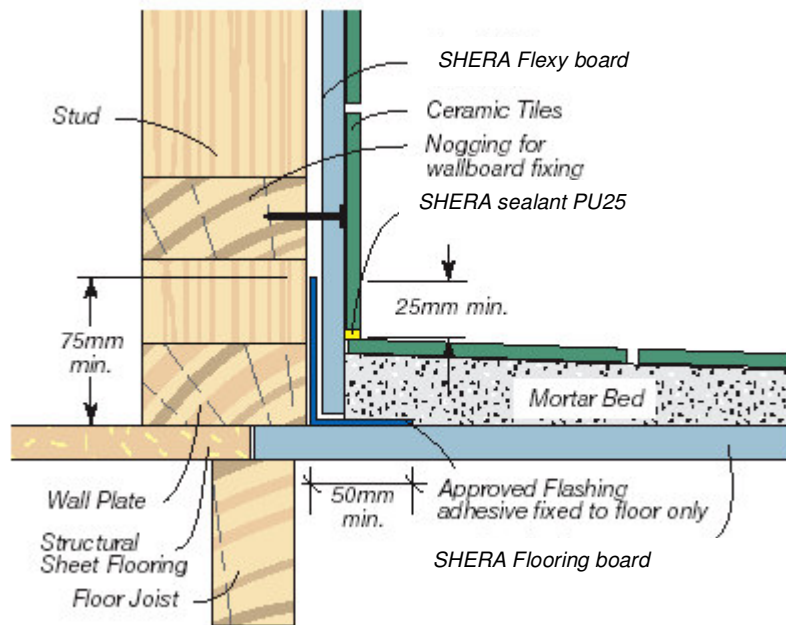


Fig 3 : Perimeter Flashing. PVC angle in general wet area.

- 2) **Perimeter flashing for step-down concrete slab** : Flashing strip 130 mm width is fixed to the bottom stud at minimum 25 mm above the floor slab and extends to cover the slab recess. Allow a 6mm gap between the mortar bed and SHERA flexy board, then fill with SHERA PU25 or other flexible sealant.

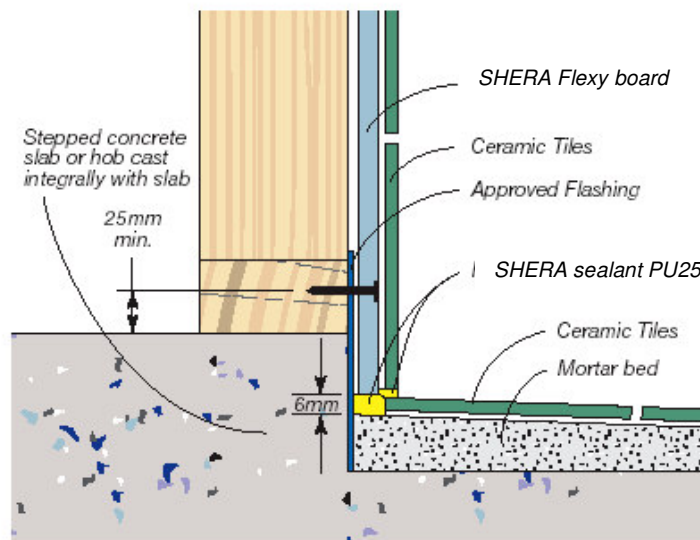


Fig 4 : Perimeter flashing. For step-down slab in general wet area

- 3) Perimeter in-situ membrane :** In-situ membrane is applied to the face of wall lining and floor back up with foam backing rod used as bond breaker. The membrane shall extend at least 25mm above finished floor surface and at least 50 mm from flooring end

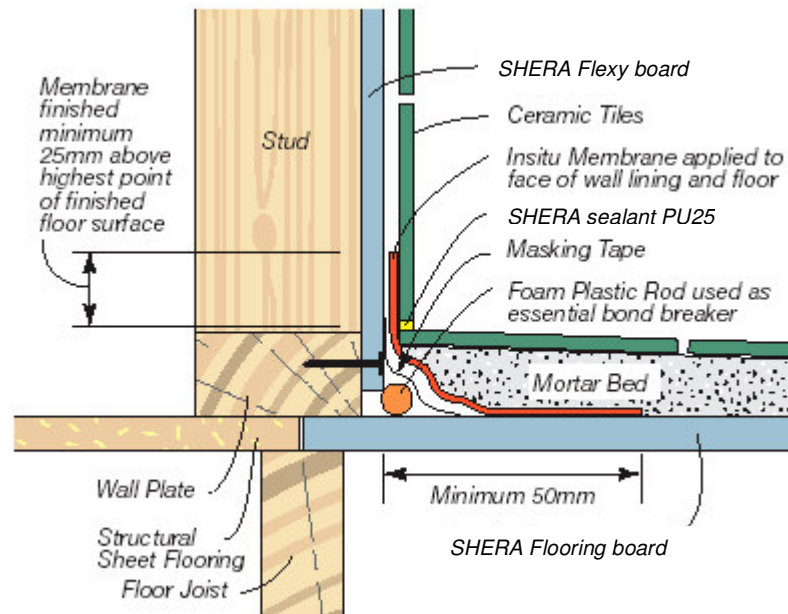


Fig 5 : Perimeter flashing. Insitu membrane in general wet area

## Shower recess construction

### 1) Preformed shower base

A preformed shower base, with the height of sides more than 75mm, must be installed before the wall lining, then cut and fix PVC angle to internal corner at spacing 60 cm to the studs. The PVC angle must be fixed 6mm above the shower base and at least 180 cm length above the top of finished shower floor. Then, fixing SHERA Flexy Board by following the step of installing the tiled areas but leaving the gap of 6 mm between the bottom edge of the sheet and the shower base, between the sheet and the floor as well as between sheets forming internal corner. Using SHERA Sealant PU25 or another flexible sealant to caulk around plumbing penetrations, the gap between SHERA Flexy Board and the shower base as well as up internal corner of shower.

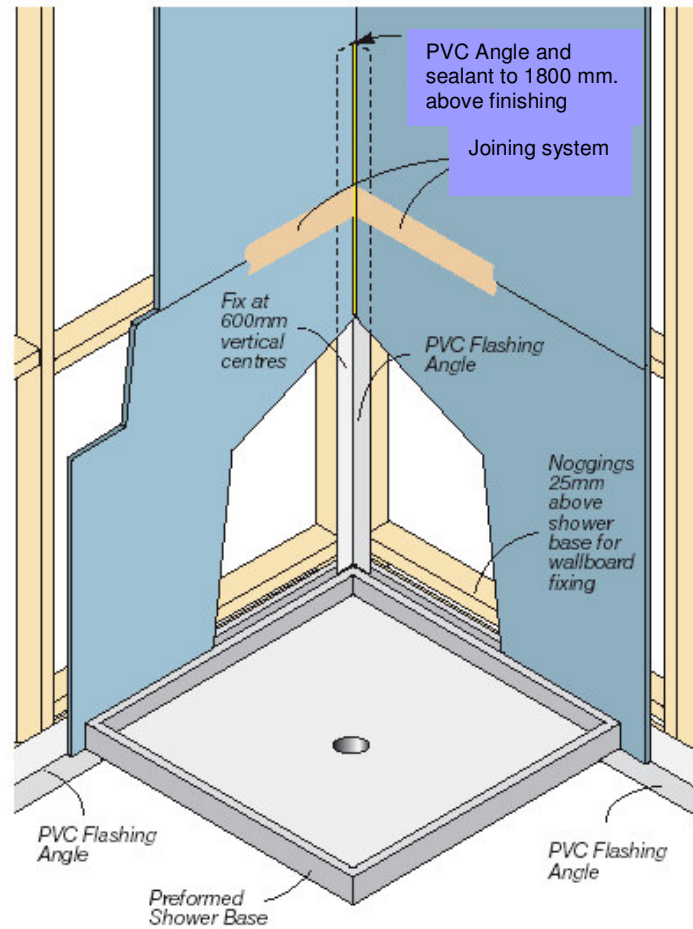


Fig 6 : Typical detail for performed shower base

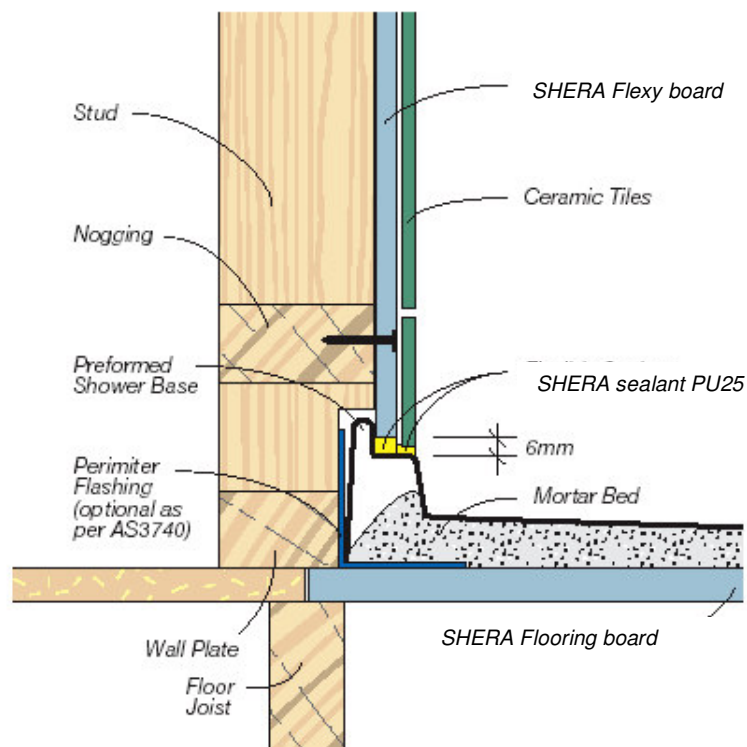


Fig 7 : Preformed shower base on Flooring board

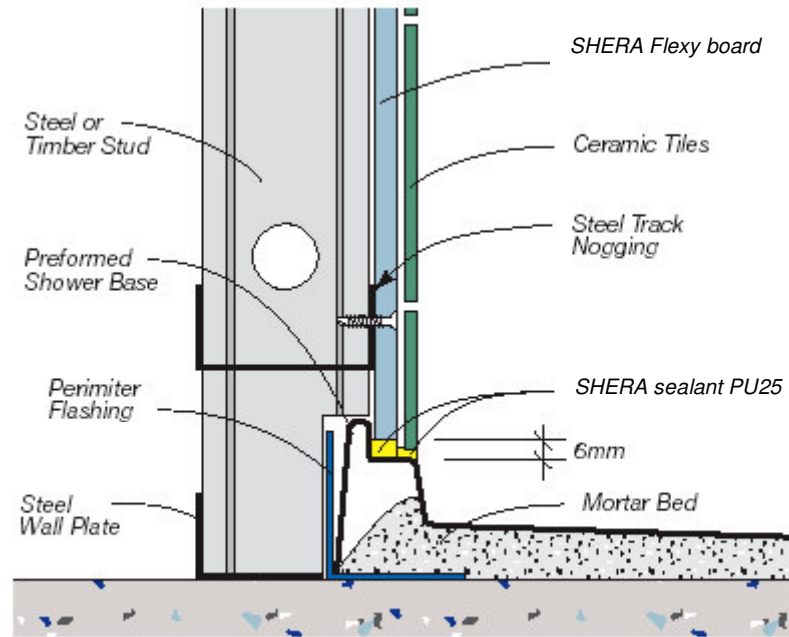


Fig 8 : Preformed shower base on concrete floor

## 2) Insitu-formed internal shower tray

Install flashing angle to wall / floor junction before fixing SHERA flexyboard thickness 8mm to the stud by leaving 6mm gap between the sheet and the floor, and between sheets joining at the corner. Cutting holes for plumbing and bath penetrations. Caulk around plumbing and bath penetrations and up internal corner with SHERA Sealant PU25 or another flexible sealant. Applying proprietary liquid membrane to the face of walling sheets and flooring sheets to form an insitu internal tray. The area of membrane shall be 150 mm width above flooring surface and 75mm width each side extending from edge of insitu masonry internal shower

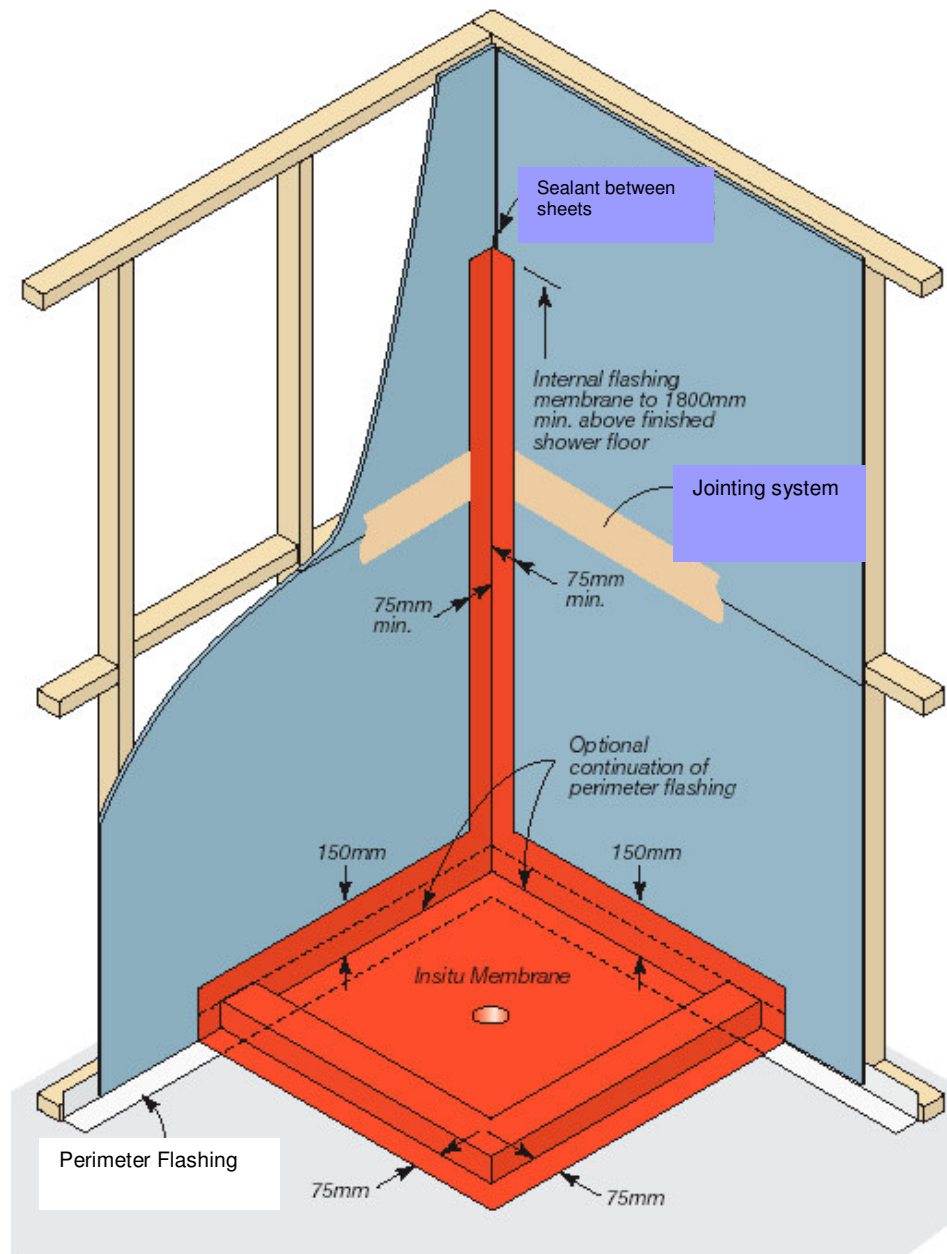


Fig. 9 : Typical detail for insitu internal tray shower recess



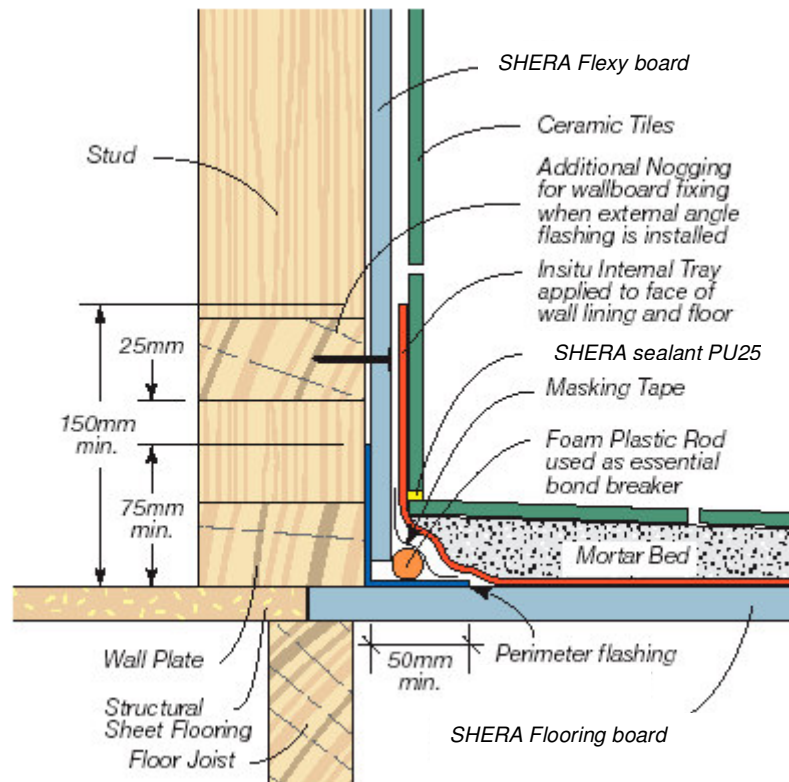


Fig.10 : Insitu internal tray shower recess (ceramic tiled) for flooring board

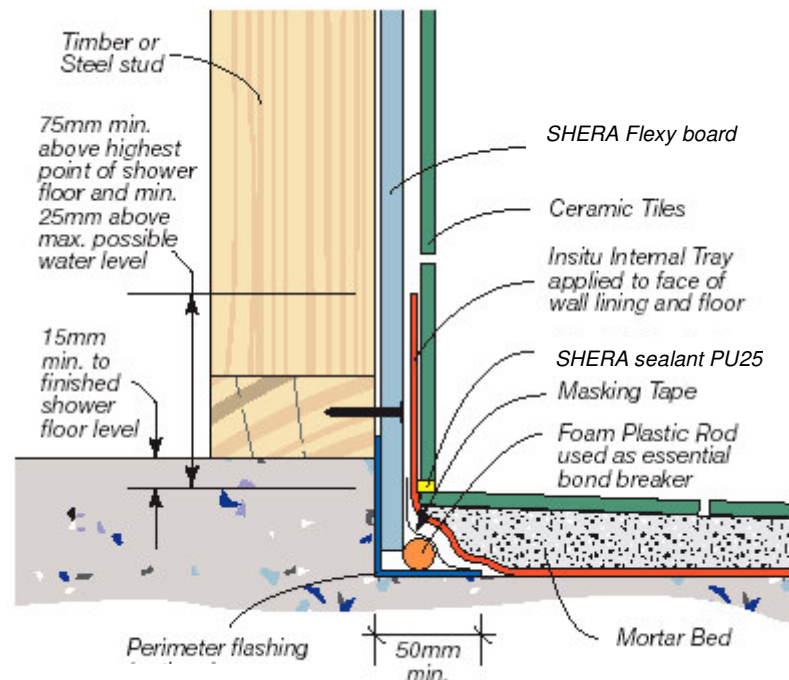


Fig.11: Insitu internal tray shower recess (ceramic tiled) for set-down slab

## Bath, Shower over bath and unenclosed shower installations

Install flashing angle to wall / floor junction before fixing SHERA flexyboard thickness 8mm to the stud by leaving 6mm gap between the sheet and the floor, the sheet and the bath, and between sheets joining at the corner. Cutting holes for plumbing and bath penetrations. Caulk around plumbing and bath penetrations and up internal corner with SHERA Sealant PU25 or another flexible sealant. Applying proprietary liquid membrane to the face of walling sheets and flooring sheets following Fig 12

For showers, apply a membrane to the vertical corner at least 180 cm length above finished floor surface and 75 mm width each side of the corner following Fig 12 and Fig 18. Then, tiles shall be fixed to the sheets with compatible tile adhesive such as Weber Fermaflex. Detail of expansion at tiled internal corners shall be referred to Fig 20.

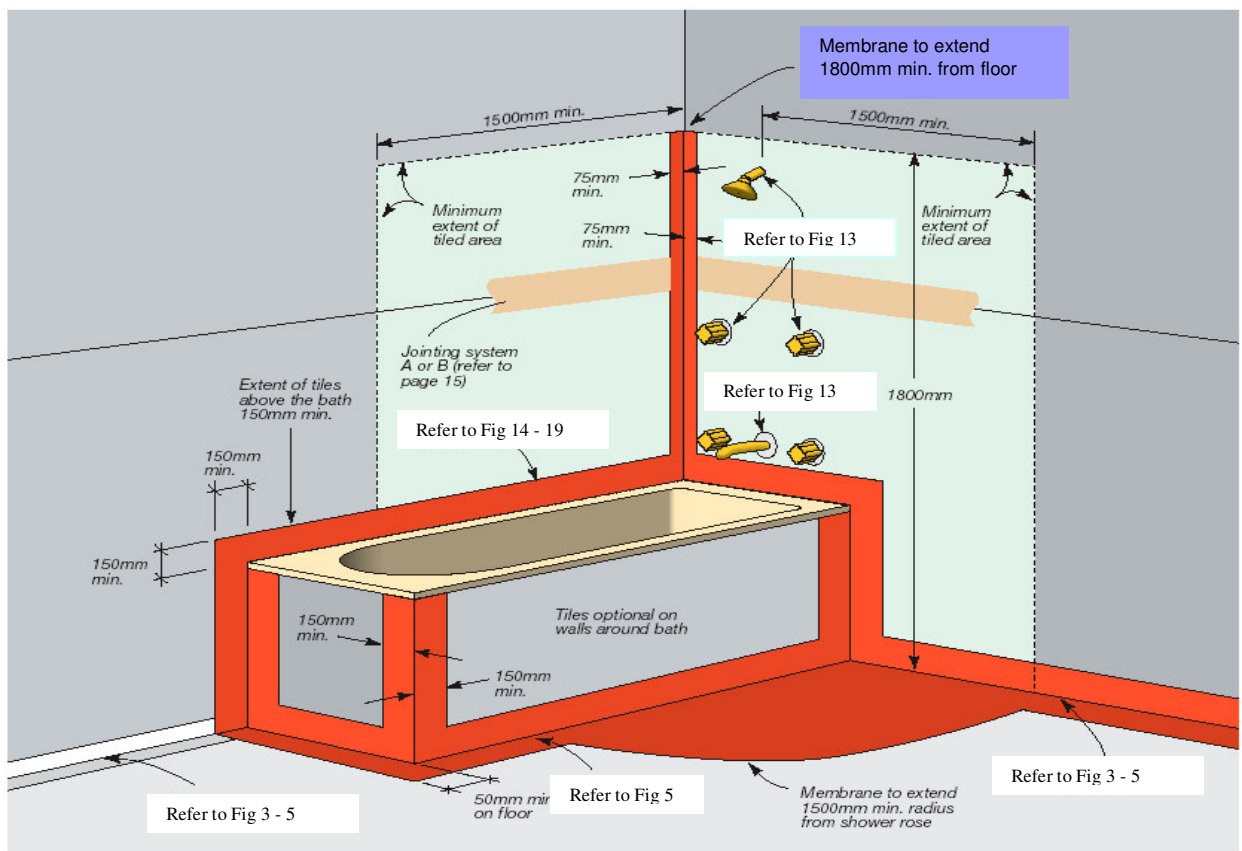


Fig 12 : Installation layout for a shower over bath or unenclosed shower area



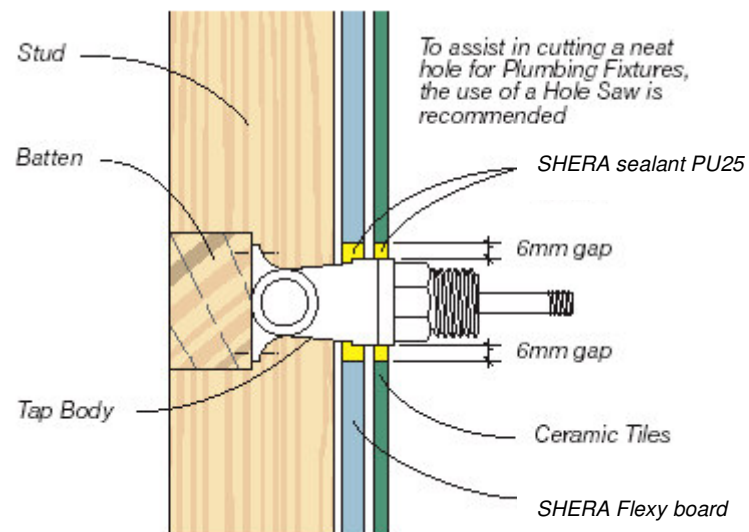


Fig 13. Tap installation elevation

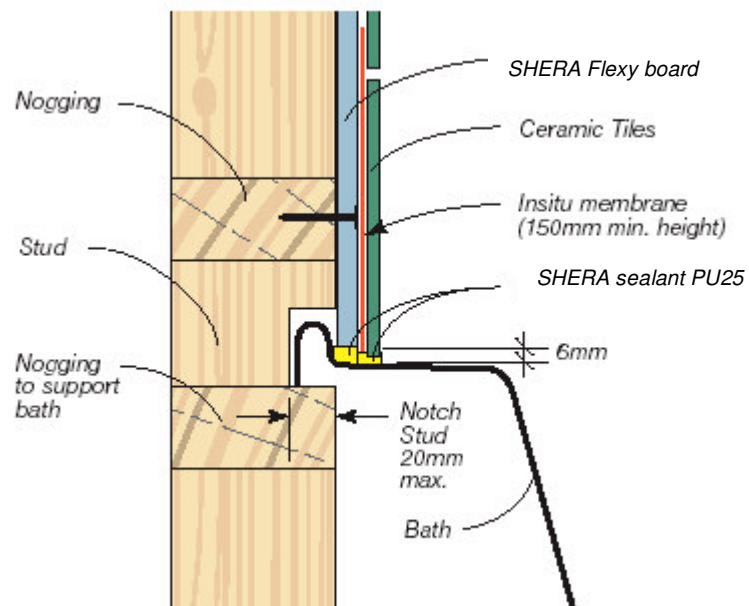


Fig. 14 : Bath installation

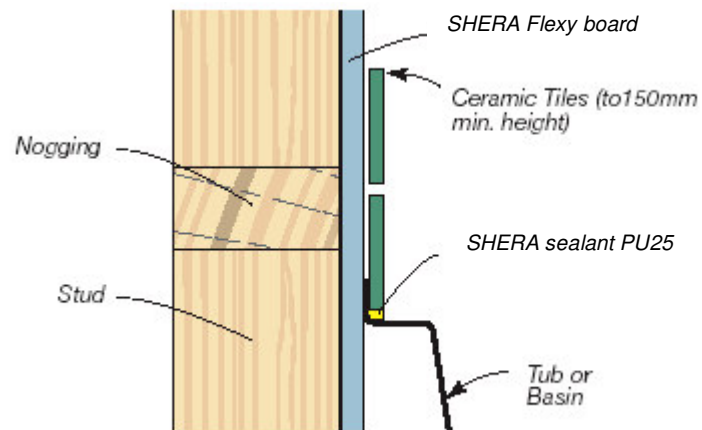


Fig. 15 :Laundry tub/basin installation (continuous linings)

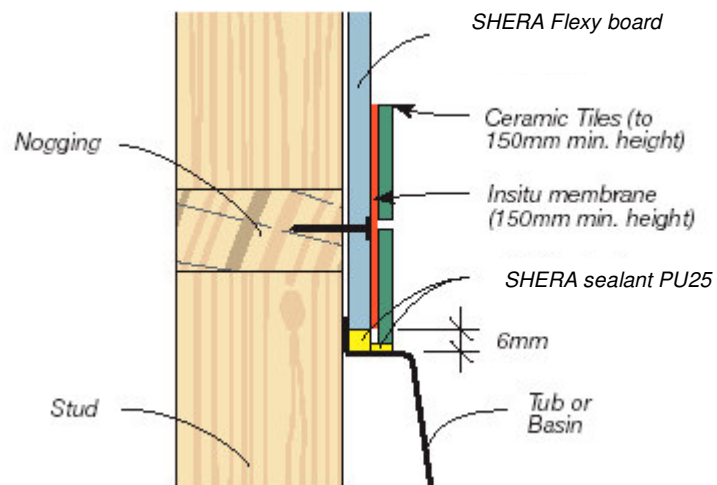


Fig. 16 : Alternative tub/basin installation (discontinuous lining)

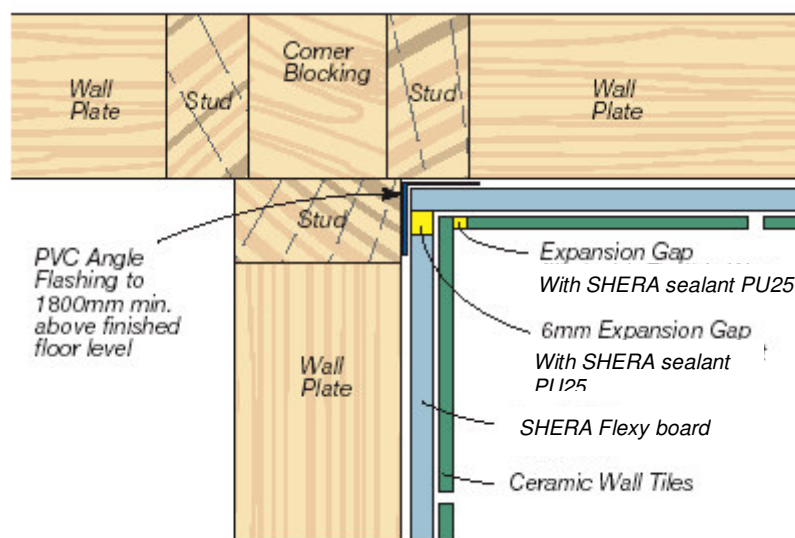


Fig. 17 : PVC Angle flashing at shower or shower over bath internal corner

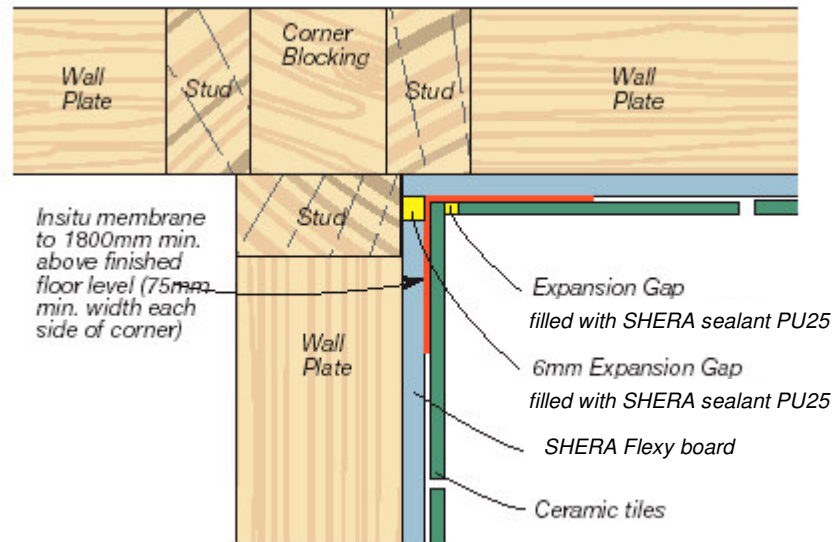


Fig. 18 : In situ-membrane flashing at shower or shower over bath internal corner

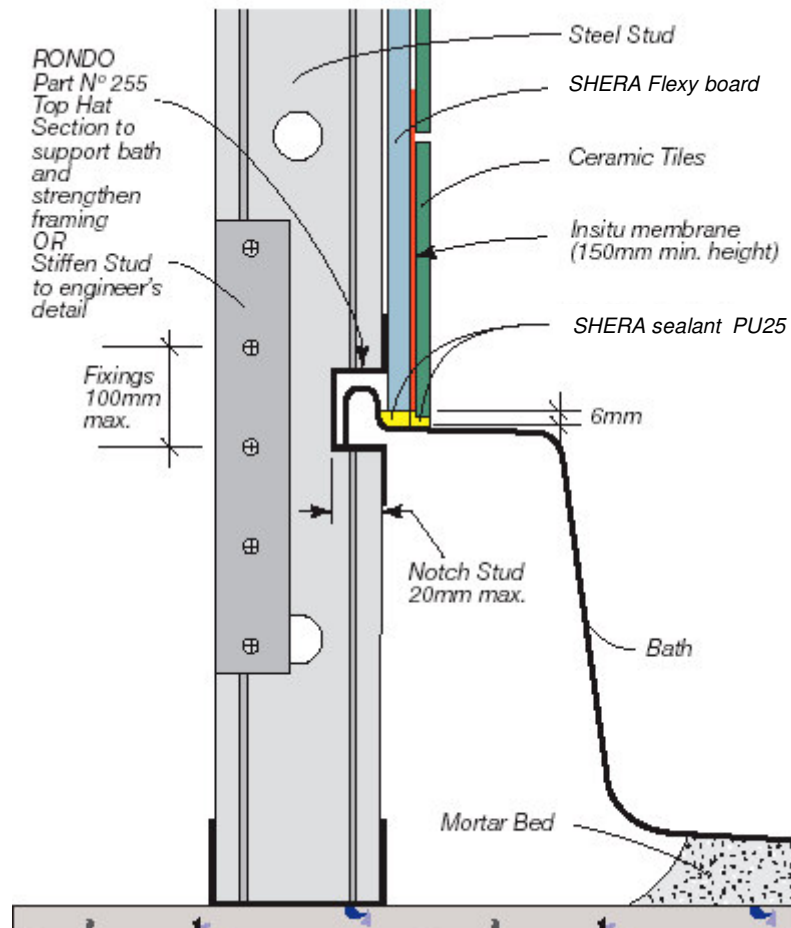


Fig. 19 : Bath installation – steel stud wall

## Tiling

Tiles shall be attached to by using compatible tile adhesive such as Weber Fermaflex. Expansion / contraction at corners is allowed by leaving a 6 mm gap between adjoining tiles in vertical corners. Fill gap with SHERA Sealant PU25 or compatible wet area flexible sealant. Clean up the sheets surface before installing tiles. Fixing tiles by proprietary ceramic tile adhesives such as Weber Fermaflex by applying adhesive directly onto the surface with 3 mm depth approximately, then rib in a horizontal direction with a notched trowel having about 4.5 mm x 4.5 mm notches.

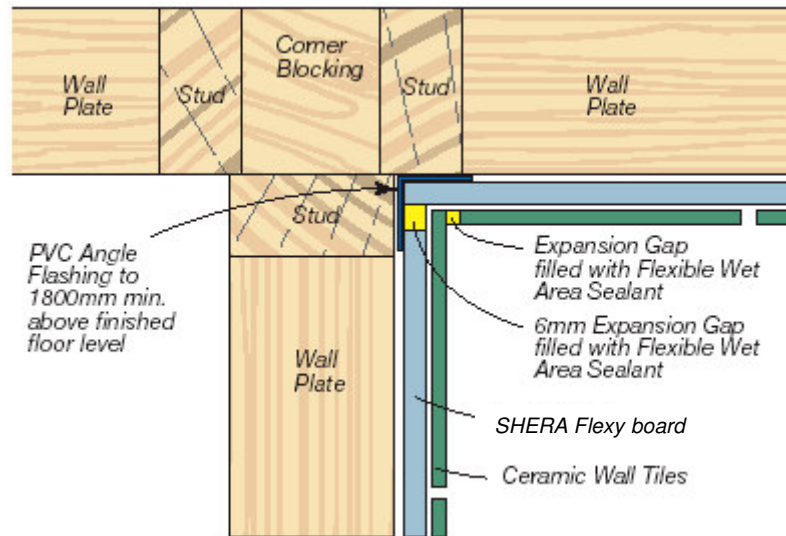


Fig 20 : Provision for expansion / contraction at tiled internal corners

# Wet Area Flooring System

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## Standard sizes of SHERA Flooring Board

Thickness (mm)	Mass (kg/m <sup>2</sup> )	Width (mm)	Length (mm)
15	22	1200	2400
			3000
18	27	1200	2400
			3000

## Accessories

### Fasteners: Screw SHERA FIX W-45

- Self-drilling screw
- Countersunk rib-head
- Wing prevents board riding

### Sealant: SHERA PU25

- Elastomeric Polyurethane sealant
- 250 % Elongation at break (EN 28339)
- Water resistance
- Acids and bases resistance

## Framing

- SHERA Flooring Board can be fixed with either steel frame or timber frame.
- Thickness and quality of frame must be selected according to their require service load and should comply with building code and standard of each country.
- Minimum flange width of stud at sheet joint must be 38 mm. Square tube steel frame is recommended at the sheet joint to avoid bending of stud flange
- Stud spacing for each degree of design load must be installed according to the follow table.

## Load table for SHERA Flooring Board

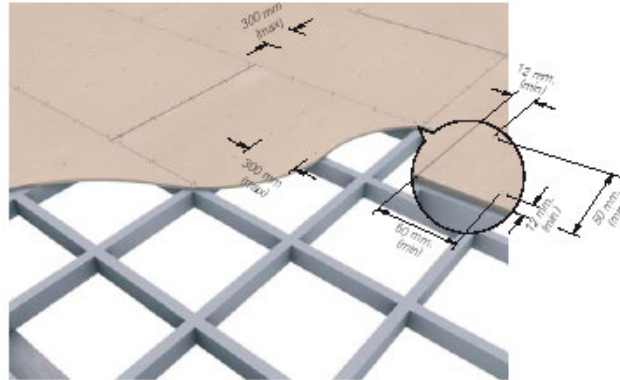
Grid support spacing (mm)	400 x 400	300 x 600	400 x 600	600 x 600	600 x 1200
Uniform distribution load (kg/m <sup>2</sup> )					
15 mm. thickness	900	850	500	400	200
18 mm. thickness	950	900	550	425	225

*Remark: Safety factor used for load table calculation 2.5*

## Installation

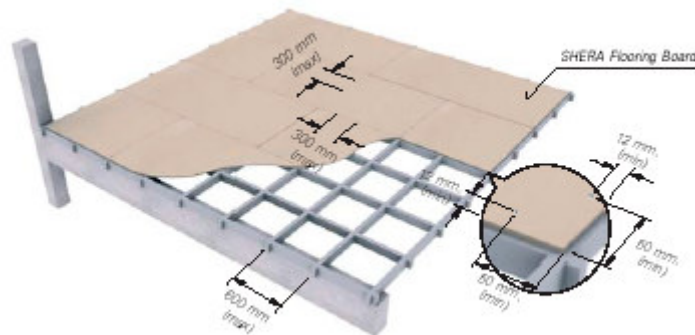
### Fixing

Fasteners must locate at more than 12 mm. from board edges and 50 mm. from board corners. Maximum fastener spacing is 300 mm.



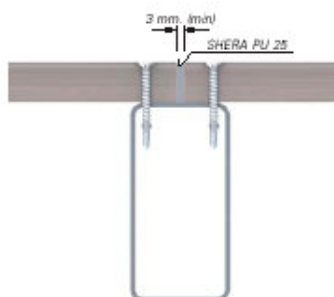
### Sheet layout

Sheet should be laid in staggered pattern (brick pattern). However, ensure that edges of board must always lie on the supporting grid joist.



### Jointing

For wet area or movement joint, polyurethane based sealant such as SHERA Sealant PU25 should be used to seal the joint between two sheets. Joint gap between the edges of sheet should not be less than 3 mm.

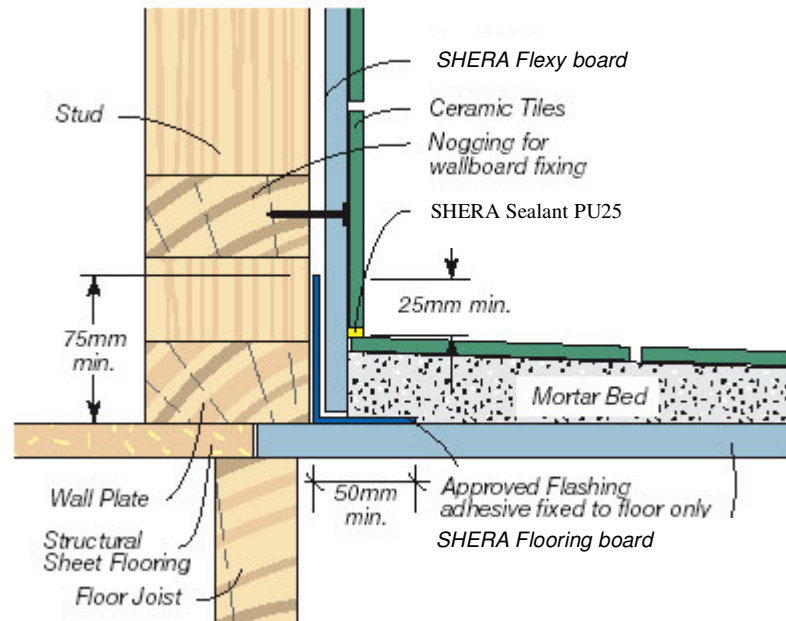




## Waterproofing

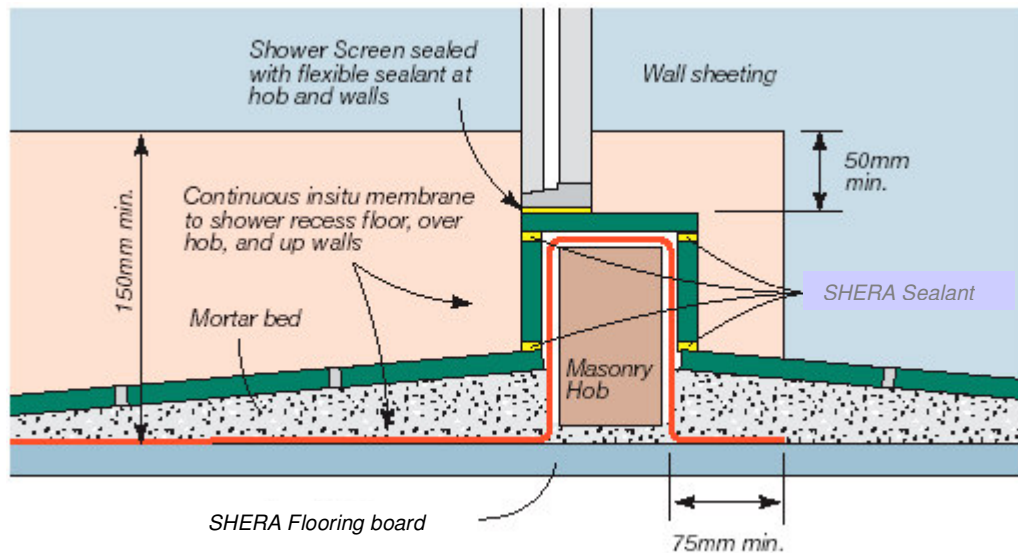
### 1) Perimeter Flashing

Generally, the perimeter flashing is applied at the junctions of wall and floor. It must extend at least 25mm above finished floor level. Methods of installing perimeter flash are suggested as follows.



**Perimeter angle flashing**

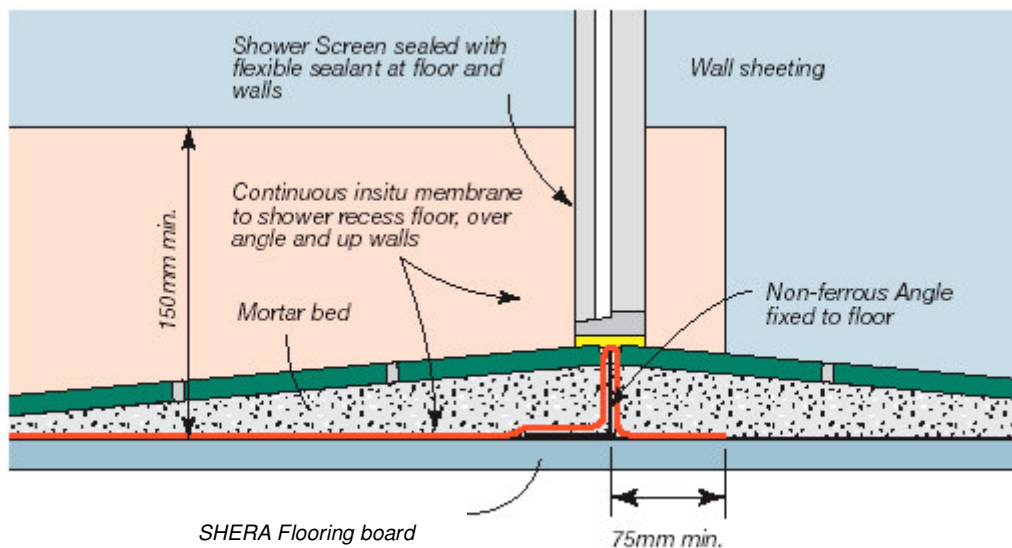
In all general wet areas, the perimeter flashing is applied at the junctions of wall and floor. It must extend at least 25mm above finished floor level. Methods of installing perimeter flash are suggested as follows.



**Shower recess with hob**

## 2) In-situ applied membrane

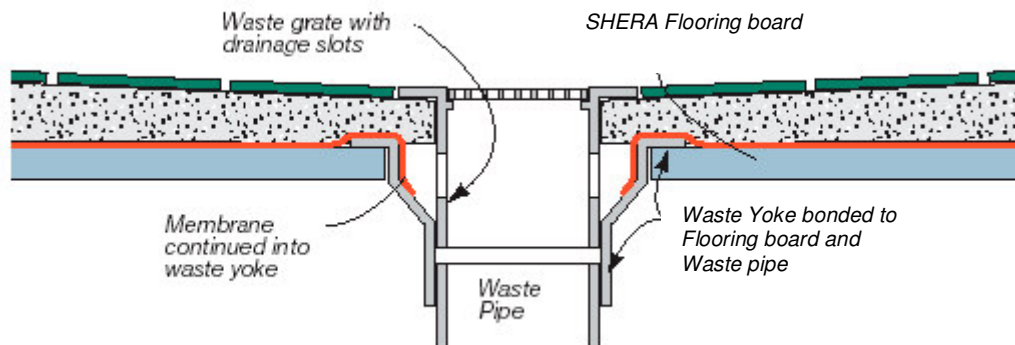
A continuous in-situ membrane must be applied to shower areas and for second floor installation, it is recommended that a continuous in-situ membrane be applied to the entire wet area floor and up the wall to a minimum 150 mm above the board level and/or to a minimum 50 mm above any shower hob.



**Hobless shower recess**

## Plumbing wastes

Plumbing wastes must be sealed, particularly in a shower area



## Tile Laying

If a fall to waste is not required, tiles may be fixed directly to Flooring board.

If a fall to waste is required, tiles must be bedded into a mortar bed which is not less than 12 mm thick.

Jointing the gap between sheets with silicone sealant before cladding tiles. Tile adhesive cement as Weber Fermaflex is recommended for fixing tiles

