Installation instructions

Qboard® liquid
Quality Board

Assembly instructions for Qboard® liquid

General instructions

The Qboard® shower unit consists of a shower element and a drain system. Both components fit into each other and form a unit.
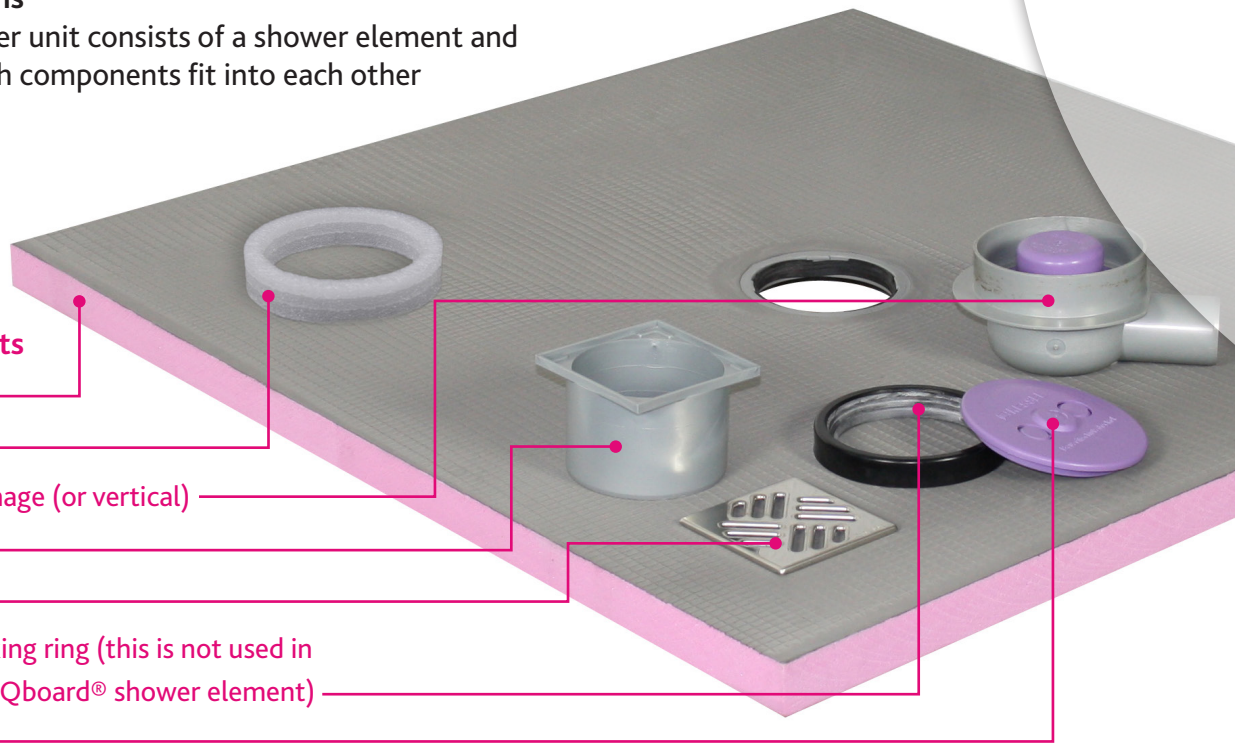
System components

Shower unit

PE-ring

Horizontal floor drainage (or vertical)

Attachment piece

Steel grate

Sealing ring with locking ring (this is not used in conjunction with the Qboard® shower element)

Gravel guard

The floor drain is inserted into the existing on-site DN 50 drainpipe. The floor drain is aligned at the centre. The height offset from the top surface of floor drain to the screed top surface is about 22 mm (see height offset drawing). For impact sound-proofed floor structures the installation of a suitable sound insulation and edge insulation strips should be planned.

Before installing the levelling screed, the supplied PE ring is first slid over the drain so that a recess around the drain remains. Then, the gravel guard is fitted. The bottom recess around the DN 50 drain pipe is now filled with a levelling screed (grout, screed premixed mortar) and smoothed off at the required height. The floor drain must be mortared in such a way that it can be rotated, to accommodate loads. The vertical offset for screeds results from the thickness of Qboard® liquid (40 mm) + 5 mm mortar bed.

After curing of the levelling screed the gravel guard is first removed from the drain and the PE-ring is removed again. A suitable adhesive (as ceramic adhesive / flexible adhesive) is then applied over the entire surface of the liquid Qboard® bottom with a notched trowel.
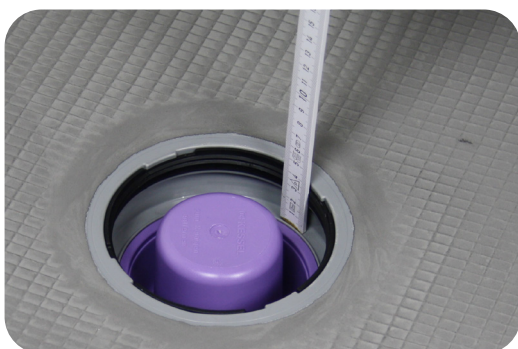
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The bottom seal of the shower element is greased. Subsequently, the shower unit is inserted into the floor recess, so that the drain slides in the sealing ring.

In order to have a watertight connection between the shower element and to ensure drainage, the measurement of the inner edge (see Fig.) should be 36-46 mm.

For better bonding Qboard® liquid can then be weighed down evenly.

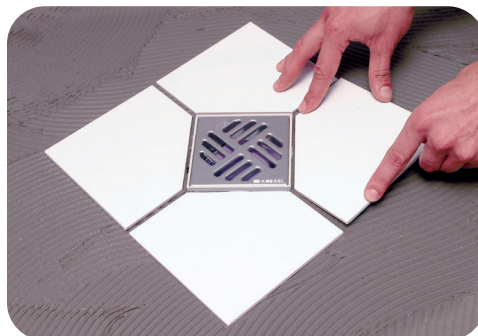All joints are sealed with the Qboard® Sealing Kit 2-k (or equivalent).

The q-drain system is height adjustable. This ensures that virtually any desired tile thickness can be used. For this, the top section is cut to length depending on the tile thickness to the desired height.

Assembly instructions for Qboard® liquid

The upper seal ring (pressure seal) is taken out of the shower element. This sealing ring is not needed in connection with the q-execution system. The top section is then inserted into the floor drain.

The exact height adjustment can be made when laying the tiles. Finally, the stainless steel grate is used and the shower element can be tiled.

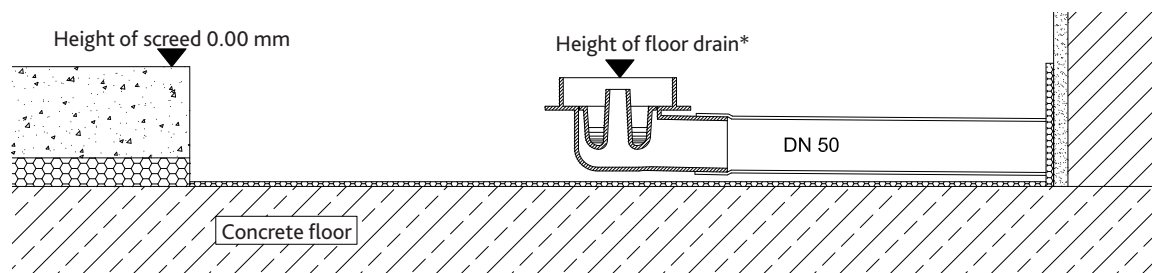**Notes for laying tiles and boards on Qboard® liquid:**

Tiles can be laid directly on Qboard® liquid. All types and sizes of tiles can be used in principle. Special requirements only apply to mosaic tiles ≤ 25 mm. In such cases, we recommend using epoxy resin grout for the tile joints.

If showers are to be wheelchair-accessible, they must be covered with tiles measuring ≥ 50 x 50 mm. For shower elements with a slope on one side, the tiles must be laid between the channel and the wall with a counter-slope.

Additional information for use as a board-shaped sealing system in accordance with the European Technical Assessment (ETA).
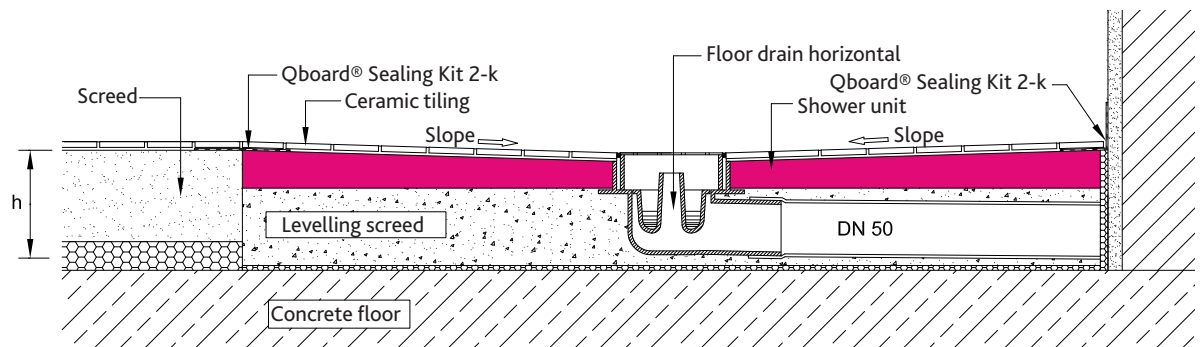
The butt joints are sealed exclusively with the Qboard 2-component sealing kit. The tiles and boards are bonded to the Qboard liquid shower element exclusively with the tile adhesives listed in the ETA.

Height offset

Height of screed 0.00 mm

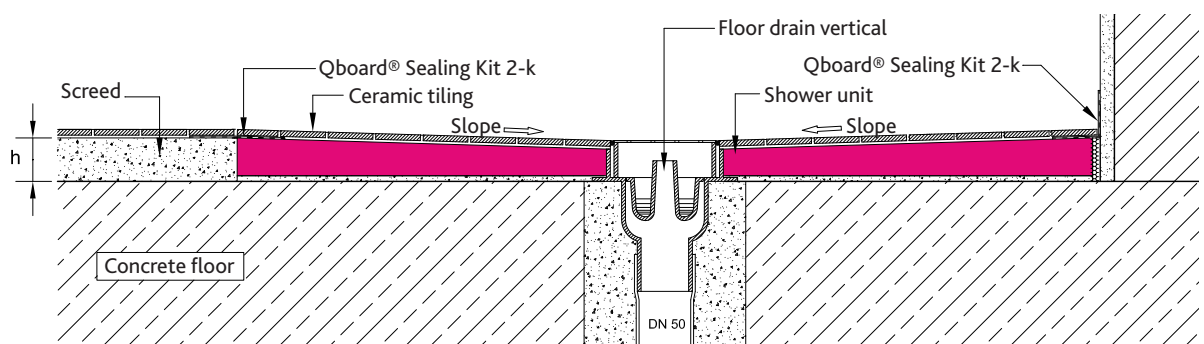Height of floor drain*

Concrete floor

DN 50

*Height of floor drain: -22 mm (for 900 x 900, 1000 x 1000, 1200 x 1200 with centre drain position)
-30 mm (for 1600 x 900, 1400 x 900 with offset drain position)
-38 mm (for 1800 x 900 with offset drain position)

Qboard® liquid with horizontal drain

Screed

Qboard® Sealing Kit 2-k
Ceramic tiling
Slope

Floor drain horizontal

Qboard® Sealing Kit 2-k
Shower unit
Slope

h

Levelling screed

DN 50

Concrete floor

Minimum installation height (h) = 110 mm (900 x 900 centre 1000 x 1000 centre, 1200 x 1200 centre)
= 120 mm (1600 x 900 offset, 1400 x 900 offset)
= 125 mm (1800 x 900 offset)

Qboard® liquid with vertical drain

Screed

Qboard® Sealing Kit 2-k
Ceramic tiling
Slope

Floor drain vertical

Qboard® Sealing Kit 2-k
Shower unit
Slope

h

Concrete floor

DN 50

Installation height (h) = 45 mm (Shower unit thickness 40 mm + adhesive mortar 5 mm)
The floor drain must be mortared along the periphery.

Assembly instructions for Qboard® liquid

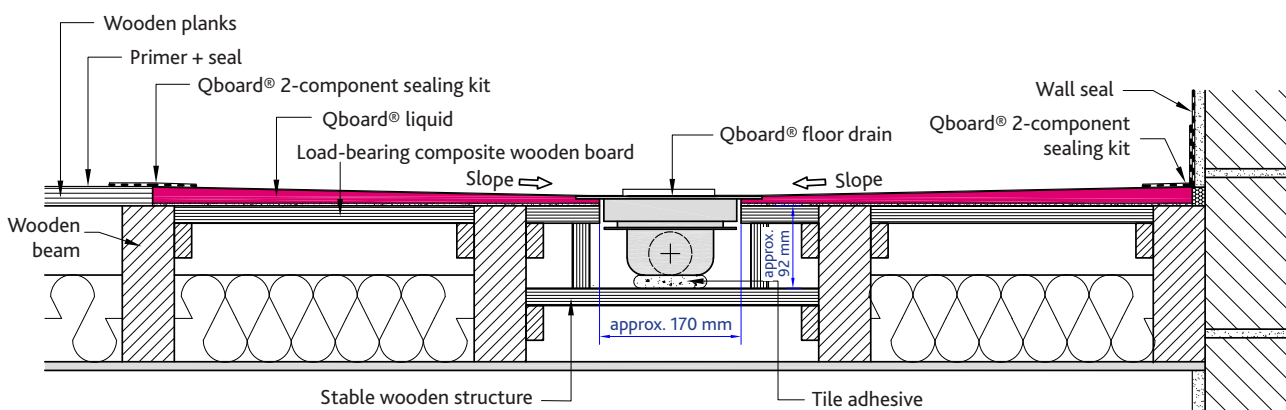**Notes on the Use of Qboard liquid on a Wooden Beam Ceiling.**

The following directions must be observed in addition to the installation Instructions.

Substrate preparation: When using Qboard® liquid on a wooden beam ceiling, the wooden planks have to be removed in the area of the shower element. A load-bearing wooden board/composite wooden board must be installed flush with the wooden beams (e.g. OSB or plywood board) so that the shower element has full contact with the surface (see bottom drawing). Around the floor drain, the wooden board/composite wooden board must be cut out (see drawing page 6). The Qboard® floor drain must also be on a solid surface. An appropriate stable wooden structure must be built between the wooden beams for this (see drawing below).
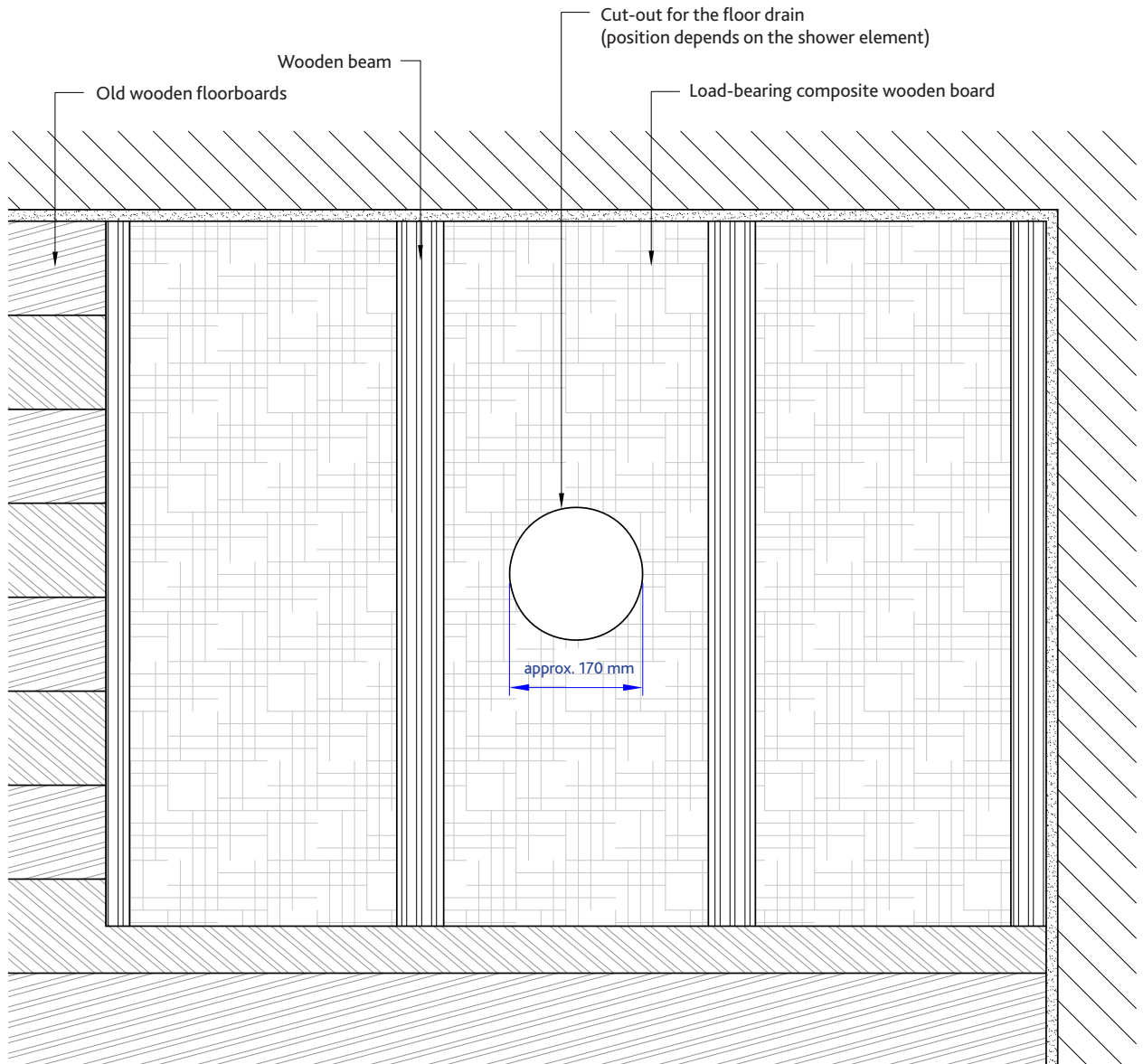
Bonding shower element: The timber substrate should be treated with a suitable bonding primer for bonding with flexible adhesive. The shower element must be bonded across the full surface of the primed wooden substrate with flexible adhesive.

Sealing the connecting joints: All connecting joints must be sealed with the Qboard® sealing set 2-component sealing kit (or equivalent). The existing wooden floorboards must previously have been primed with a suitable bonding primer and then sealed with a suitable seal. For example, Qboard® basiq construction board (minimum thickness 6 mm) can be used as a suitable seal.

Qboard® liquid on wooden beam ceiling

Top view substructure

Cut-out for the floor drain
(position depends on the shower element)

Wooden beam

Old wooden floorboards

Load-bearing composite wooden board

approx. 170 mm

Please note

The information in this publication is based on our current knowledge and experience. They are not guarantees in the legal sense. During application, the specific conditions of the use case must always be taken into account, especially in terms of building physics, structural engineering and building regulations.