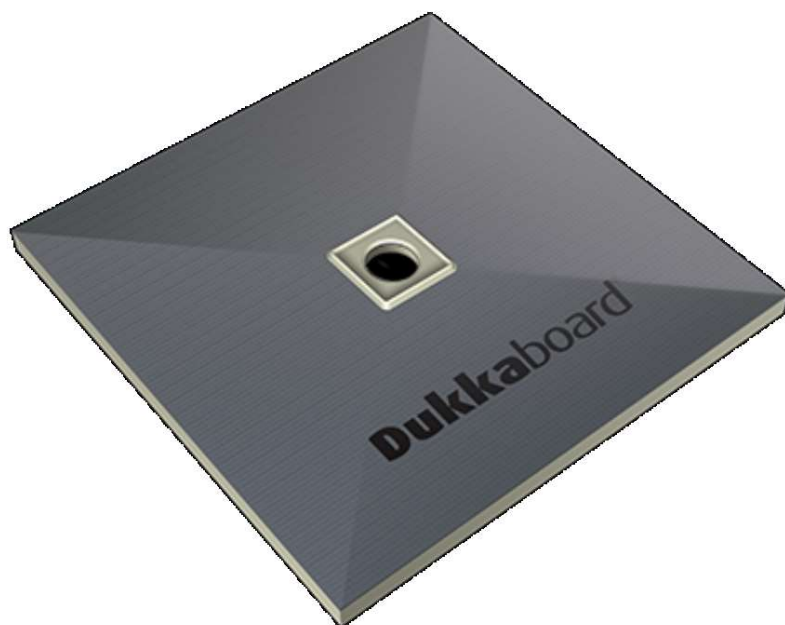


Dukkaboard Shower Tray Former datasheet – square drain



Overview

Dukkaboard pre-formed Shower Trays are available in a wide variety of sizes and drain positions to suit a range of applications. They come with a matching floor drain specifically designed for combined use in low-profile internal wet-room floor build-ups.

They are made of an XPS foam panel of high compressive strength, machined to precise gradients and coated with polymer-modified cement coats on upper- and under-sides. The trays' surfaces are reinforced with resilient glass fibre mesh for rigidity, and for a surface texture that gives an excellent key for adhesive and for water-proofing products. They are designed to receive a tile covering of ceramic, porcelain, or natural stone, and are suitable for use with all types of tile adhesive.

Function

Designed for the application of a robust and decorative finish, in the form of natural stone tiles, porcelain and ceramic tiles, and mosaics. Falls laid to match the gradient profile in the tray's upper surface efficiently drain surface water to the outlet position. Trays are built to a minimum thickness that achieves the gradient of 1:60, at least 20mm, whichever is the greater.

Any common tile type can be used, of any format and thickness*, and any shape.

*Where smaller tiles are used (less than 50 x 50mm) the inclusion of a further reinforcement layer is required.

Appearance

For the ultimate in level-access showering luxury, wet-room style thin shower tray bases with built-in factory-finished gradients draining surface water via gradients from all edges to a central-, edge- or corner-positioned drain.

The Dukkaboard shower trays range also includes tray bases to suit channel drains in two gradient styles (doc code TDS-STCD).

Technical details

Pre-formed Shower Tray formers designed for use with natural stone or tiles to create a gradient wet-room floor. Fitted in conjunction with any the Dukkaboard square drain traps for a versatile installation. Tray formers are suitable for use with and compatible with all tile adhesives.

Accepts installation of all sizes of tiles. For mosaic tiles less than 50mm, use in conjunction with a secondary layer of Dukkaboard reinforcing mesh. For tiles larger than 100 × 100mm the valley lines must be followed with a continuous cut through the tile covering.

Thermal insulation of the tray means under-tile heating in the wet zone floor is appropriate and efficient.

Range of stock sizes for a multitude of applications. Bespoke sizes available, ask customer services team for more information and pricing.

Component typical details

XPS foam component

	Standard	Value
Compressive strength		250 kPa
Thermal conductivity	DIN EN13164	0.03 W/m.K
Fire retardance and spread of flame:	EN 13501-1	Class B1 'not readily ignitable'
Mass density	DIN EN 1606	35kg / cu.m
Water permeability (10 yr submersion)	EN 12087	<=0.3% by vol.
U-value 20mm		1.549 W/m ² K
U-value 25mm		1.434 W/m ² K
U-value 30mm		1.117 W/m ² K

Mortar

Shear strength at 90°	DIN EN 12090	0.20 N/mm ²
Mass density cured component		1675 kg per cu.m

Technical details – composite tray

Min tile size		50 x 50mm* ¹
Max tile size		No maximum* ²
Gradient of upper surface	>=1.5% (1:66)	Varies (always >= 12mm)
Density 20mm thick		250kg / cu.m
Density 25mm thick		200kg / cu.m
Density 30mm thick		165kg / cu.m
Maximum service temperature		75 °C
Tensile strength	DIN EN1607	0.45 N/mm ²

*¹ For mosaic tiles less than 50 x 50mm, use a layer of Dukkaboard reinforcing mesh.

*² For tiles larger than 100x100mm, the tiles are cut in line with the tray's valley lines.

Installation details

Please read the full installation guide (doc code IG-STSQ) with this technical datasheet before installing. Refer to installation guide before choosing fixing products. Do not use silicone or solvent-based adhesives. If an inset-tile cover is chosen, this must be laid in situ prior to tiling the tray, and tiling layer adjusted to accommodate.

Copy text for Architect specifications:

Dukkaboard shower tray former: waterproof shower tray former made of a rigid XPS foam core and coated with polymer-modified and fibre-reinforced cement coats on upper- and under-sides. Designed with pre-built gradient in upper surface, for efficient draining of shower water. For the application of a robust and decorative finish including any of these finishes natural stone tiles, porcelain and ceramic tiles, and mosaics.
Fix with EN12004:C2F-grade tile adhesive, or where appropriate, mechanical fixing by Dukkaboard washers and screws.

Waterproof to surrounding wall surfaces using Dukkaboard Iso-Koll and appropriate waterproof membranes (see Iso-Shield and Deco-Shield) or by using Dukkaboard Neo-Flex and Fleece+ tape.

Range of products

The Square Drain shower tray formers range includes the following five groups, identified by the drain position within the rectangular tray shape.

Standard styles and sizes* (see doc ref CAD-STSQ for tray former drawings)

SC – square trays with a drain dead centre, sizes from 900mm square to 1500mm square

Stock code	Length	Width	Thickness	Drain position 'X'	Drain position 'Y'
5140	800	800	20	400	400
5144	900	900	20	450	450
5141	1000	1000	20	500	500
5143	1200	1200	20	600	600

RC – rectangular trays with a drain dead centre, lengths ranging from 1000 to 1830mm and widths ranging from 800 × 1200mm

Stock code	Length	Width	Thickness	Drain position 'X'	Drain position 'Y'
5154	1000	800	20	500	400
5145	1200	900	20	600	450
5287	1300	1050	25	650	525
5157	1500	900	20	750	450
5158	1500	1200	20	750	600
5288	1800	1200	30	900	600
5155	1830	915	25	915	458

RE – rectangular trays with a drain at one end, with widths from 800 to 1050mm, and lengths ranging from 1100 to 1800mm. Rotating the tray will result in multiple trap position options.

Stock code	Length	Width	Thickness	Drain position 'X'	Drain position 'Y'
5221	1100	800	20	400	400
5142	1200	800	20	450	400
5146	1200	900	20	450	450
5153	1200	1000	20	450	500

5281	1350	1000	25	225	500
5224	1400	760	25	380	380
5225	1400	900	25	450	450
5150	1500	800	25	450	400
5227	1600	900	30	450	450
5280	1650	1050	30	300	525
5222	1700	800	30	400	400
5223	1700	900	30	450	450
5229	1800	900	30	450	450

RL – rectangular trays with a drain close to the centre of the longest edge*, with sizes ranging from 1050 × 900mm, to 1550 × 1100mm. Rotating the tray will result in two trap position options.

Stock code	Length	Width	Thickness	Drain position 'X'	Drain position 'Y'
5282	1050	900	25	525	240
5139	1200	1200	20	600	450
5283	1350	1050	25	675	270
5284	1500	900	30	750	270

RR – rectangular and square trays with a drain close to a corner*, with sizes from 1000 × 1000mm to 1500 × 1200mm. Rotating the tray will result in multiple trap position options.

Stock code	Length	Width	Thickness	Drain position 'X'	Drain position 'Y'
5149	1000	1000	20	350	350
5147	1200	900	20	270	450
5148	1200	900	20	630	450
5285	1200	1500	30	270	930
5286	1200	1500	30	270	270

*BESPOKE sizes available, ask the technical team for more information.

Compatible Shower traps



Related products:

Dukkaboard panel (doc code TDS-DPOP)

Adjacent floors and bounding walls in the wet zone should be clad with Dukkaboard-Original panels, and tanked with Dukkaboard tanking system.

Dukkaboard tanking products (see e.g. datasheet IG-DWAQ)

A two-component air-curing neoprene membrane for the securing of a permanent and guaranteed watertight seal, over Dukkaboard tray joints, adjacent boards, fixings, incorporating corners and pipe manchets for securing every detail to the same standard. Includes self-adhesive tape for walls, two-component adhesive for polyethylene sheet membranes and repair products.

Dukkaboard washers (see datasheet TDS-DPOP)

Varieties in galvanised and stainless-steel materials, suitable for the secure fixing of Dukkaboard to walls and floors, for any applications where the substrate is suitable for screw fixing. Resultant Dukkaboard surfaces are suitable to accept weight loadings in accordance with the 100kg capacity.

Dukkaboard Horizontal trap (see datasheet TDS-SAST)

Shower tray formers are designed to work with any the Dukkaboard square drain traps for a versatile installation. The trap outlet design facilitates waste connection to pipework in any direction, horizontal, or vertical.

Designed to work with any of the Dukkaboard square drain traps for a versatile installation.

Description	Code	Depth	Flow rate	Outlet size and connection type
Adjustable, horizontal outlet with 90° elbow	5549	93mm	54lpm	1½" multi-fit
Vertical outlet, central discharge point	5553	160mm (to extremity of pipe outlet)	54lpm	1½" multi-fit

Dukkaboard shower tray formers are guaranteed waterproof for 25 years (see doc code PGC-DBBR). Always consult a professional.