

# Dukkaboard®

## Product Installation Guides



The Complete Tile Backer System for quality tiling, creative freedom and peace of mind for a guaranteed 25 years.

# Dukkaboard®

## TECHNICAL FEATURES



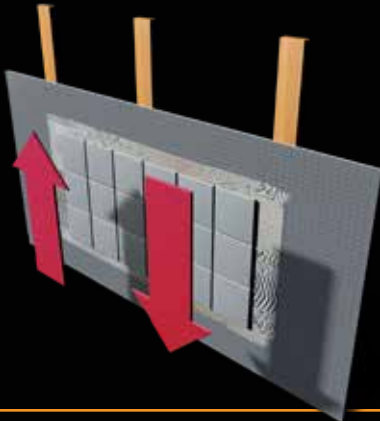
### Water Absorption

0.3% by volume



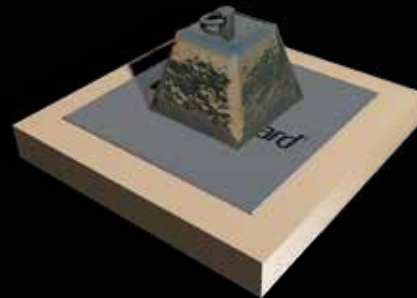
### High Thermal Insulation (K Value)

0.035W/m.k



### Load Strength

(Vertical Plain) 100kg/m<sup>2</sup>



### Compressive Strength

0.25N/mm<sup>2</sup>



### Workability



### Lightweight



|                                                                                                                  |              |                                                                                                |              |
|------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------|--------------|
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# Dukkaboard®

## KEY FEATURES

Dukkaboard is an innovative tile backer board system complemented by an extensive range of accessories and waterproofing products. Dukkaboard is used as a substrate for tiles and stone finishes for walls and floors.

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### Moisture and rot proof

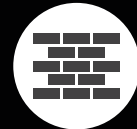
Dukkaboard is a fully waterproof system that creates the perfect solution for bathrooms, showers and wetrooms.



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### Exceptional stability

Dukkaboard eliminates the common causes of tile failure associated with Plasterboard, MDF, Chipboard and Plywood.



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### High thermal insulation

Dukkaboard panels and shower trays substantially reduce heat loss therefore are a great solution for use with electric underfloor heating.



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### Lightweight and workable

Easier and faster to work with than all other types of building board.



**Replaces wet finishes**

Can be used in place of floor screeds and rendered or plastered wall finishes, fast-tracking tiling and saving costs.

**Unlimited Creativity**

Dukkaboard products allow creative freedom when constructing features and structures.

**25 Year Guarantee**

Dukkaboard products come with a 25 year warranty against any defects in material on all system installations that have been carried out in accordance with the Dukkaboard installation guidelines.

**Dedicated Technical Support**

Dukkaboard is supported by The Knowledge Network – Offering technical information, support and installation guides.

**Cost Effective Solution**

Inexpensive to buy, fast to install.



# Dukkaboard®

## Confidence through quality

Trusted by professionals across the globe, Dukkaboard is the preferred choice for architects and contractors.

To underline the supreme quality of the Dukkaboard range, Dukkaboard products come with a 25 year warranty against any defects in material on all system installations that have been carried out in accordance with the Dukkaboard installation guidelines\*.

\* Refer to page 52 for the full Dukkaboard Statement of Warranty.



DUKKABOARD 25 YEAR WARRANTY

DUKKABOARD 25 YEAR WARRANTY

# **Dukkaboard® 25 YEAR WARRANTY**

DUKKABOARD 25 YEAR WARRANTY

DUKKABOARD 25 YEAR WARRANTY



The Dukkaboard system used to create a complete luxury bathroom.



# Dukkaboard®

## Fixing Dukkaboard Original-Panels to stud walls

Ensure stud work is stable and plumb.

Note : For stud wall application, use minimum 10mm thick Dukkaboard - refer to table on the following page for appropriate board thickness depending on stud spacing. While this fixing guide features timber studwork, the same instructions apply when using Dukkaboard with metal studwork.



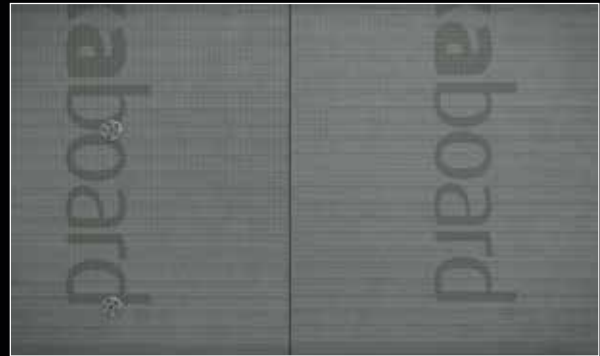
1. Fix the Dukkaboard Original-Panel directly to studwork.



3. Fix using screws and washers at 300mm centres (vertical spacing) into each upright.



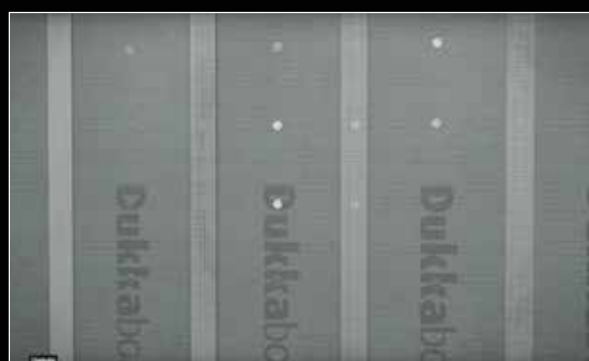
2. Ensure all board edges are supported with a vertical or noggin behind. Always make cuts before fixing.



4. Ensure all panel edges are tightly abutted.



5. **Pro Tip** - Washers can be shared across panel edges.



6. When all the panels are securely fixed to the studwork apply joint reinforcement tape (dry area application only) before commencing the tiling work. N.B In wet areas, tape all joints with Dukkaboard Waterproof Tape or use the Aqua77 Tanking system.

## RECOMMENDED DUKKABOARD THICKNESSES

| Stud spacing up to: | Recommended minimum Dukkaboard thickness |
|---------------------|------------------------------------------|
| 300mm               | 10mm                                     |
| 400mm               | 12.5mm                                   |
| 600mm               | 20mm                                     |

For technical information, support and more installation guides and videos from the expert team at Dukkaboard, visit [www.dukkaboard.com/the-knowledge-network](http://www.dukkaboard.com/the-knowledge-network)

# Dukkaboard®

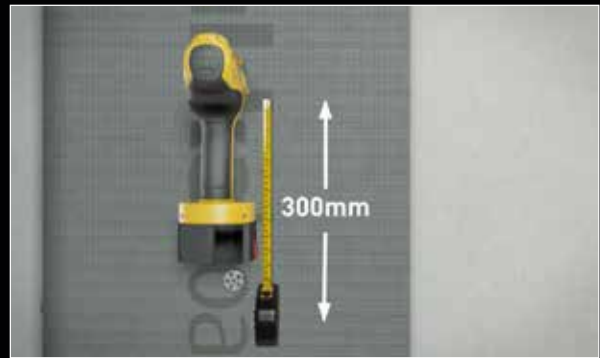
## Fixing Dukkaboard Original-Panels to existing plasterboard on studwork

Select appropriate board thickness and size - refer to table overleaf for appropriate board thickness depending on stud spacing.

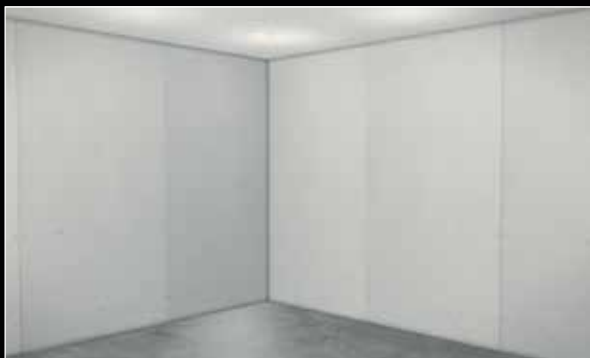
**Note :** Select a screw length that ensures a minimum of 30mm fixing into studwork.



1. While this guide features metal studwork, the same fixing instructions apply for wooden studwork.



4. Screw through the panels, into the studwork behind.



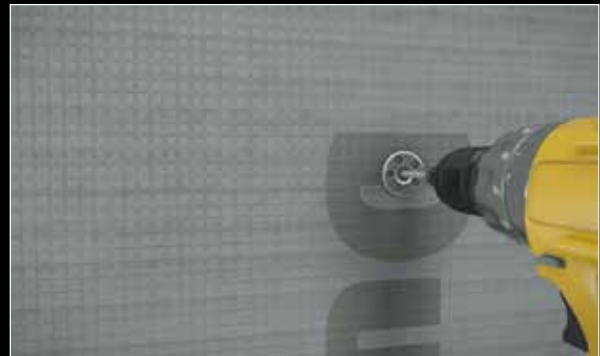
2. Remove any protrusions or loose materials from existing plasterboard surface.



5. Fit screws and washers in centre of the panel first.



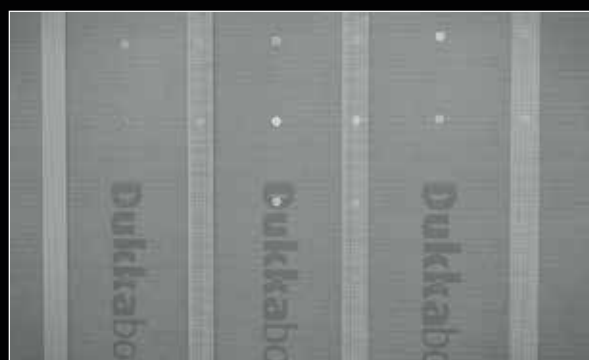
3. Ensure all panel edges are supported with a vertical or noggin behind and firmly abutted. Dukkaboard must be fixed to studwork using screws and washers at 300mm centres (vertical spacing).



6. Drive screws in firmly to ensure that the washer is flush with the panel surface. Do not overtighten.



7. **Pro Tip** - Washers can be shared across panel edges.



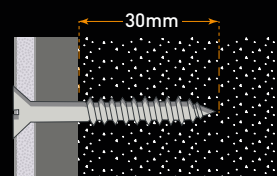
9. Once all Dukkaboard is in place, reinforce with jointing tape - dry area tiling application only.  
N.B. In wet areas, tape all joints with Dukkaboard Waterproof Tape or use the Aqua77 Tanking system.



8. Continue fitting Dukkaboard Original-Panels until all surfaces are covered as required.

## RECOMMENDED FIXING LENGTH

Use fixings of sufficient length to penetrate securely into sound substrate (as a guide, approx. 30mm minimum). Allow for the thickness of Dukkaboard used.



## RECOMMENDED DUKKABOARD THICKNESSES

| Stud spacing up to: | Recommended minimum Dukkaboard thickness |
|---------------------|------------------------------------------|
| 300mm               | 10mm                                     |
| 400mm               | 12.5mm                                   |
| 600mm               | 20mm                                     |

For technical information, support and more installation guides and videos from the expert team at Dukkaboard, visit [www.dukkaboard.com/the-knowledge-network](http://www.dukkaboard.com/the-knowledge-network)

# Dukkaboard®

## Fixing Dukkaboard Original-Panels to plumb and sound masonry walls-Using a dot and dab method

When fixing Dukkaboard Original-Panels to solid walls you should use a mechanical fixing as well as tile adhesive. This will ensure a secure fixing into the brickwork behind.

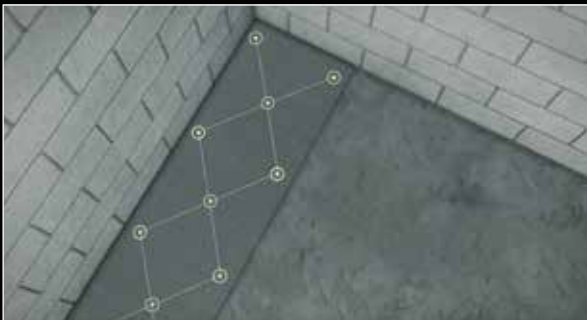
**Note :** For dot and dab application method, use a minimum of 12.5mm thick Dukkaboard. Refer to the following page for appropriate fixing length.



1. Before applying adhesive or fitting Dukkaboard Original-Panels, prime the wall using Aqua 77 Pro-Tile Primer.



4. Place the panel in position and tamp gently to ensure it is level and is making good contact with adhesive.



2. Mark the positions of adhesive at 600mm fixing centres, with centre fixings diagonally equidistant from the other fixings using a small flat bladed screwdriver to pierce the panel right through to the other side.



5. Continue application of adhesive and fitting panels, ensuring all edges are tightly abutted.



3. Apply small dots of tile adhesive corresponding with the positions marked.



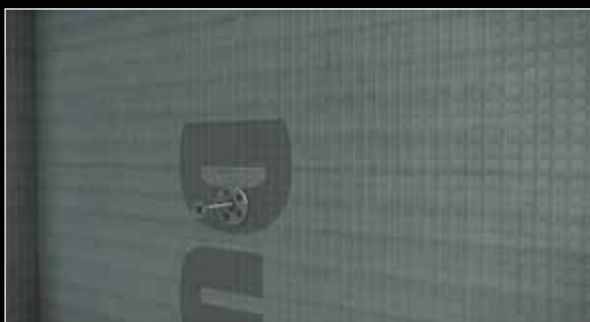
6. Once adhesive is dry, reinforce with screws and washers, or fixing dowels corresponding to the adhesive spots marked prior to fitting.



7. **Pro Tip** - Drill holes for fixing dowels using an 8mm masonry bit.



9. Continue placing fixings until all are in place and gently tap until flush.



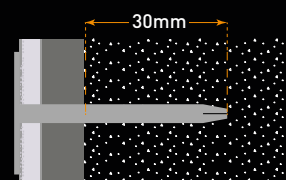
8. If using screw and washer fixings, drill using an appropriate size drill bit for Rawlplugs and ensure screw length is suitable.



10. Apply joint reinforcement tape (dry area application only) before commencing the tiling work. N.B In wet areas, tape all joints with Dukkaboard Waterproof Tape or use the Aqua77 Tanking system.

## RECOMMENDED FIXING LENGTH

Use fixings of sufficient length to penetrate securely into sound substrate (as a guide, approx. 30mm minimum). Allow for the thickness of Dukkaboard used.



# Dukkaboard®

## Fixing Dukkaboard Original-Panels to plumb & sound masonry walls-Using a solid bed of tile adhesive

When fixing Dukkaboard to solid walls you should use a mechanical fixing as well as a solid bed of tile adhesive. This will ensure a secure fixing into the brickwork behind.

**Note :** For masonry wall application, use a minimum of 6mm thick Dukkaboard. Refer to the following page for appropriate dowel length dependent on board thickness.



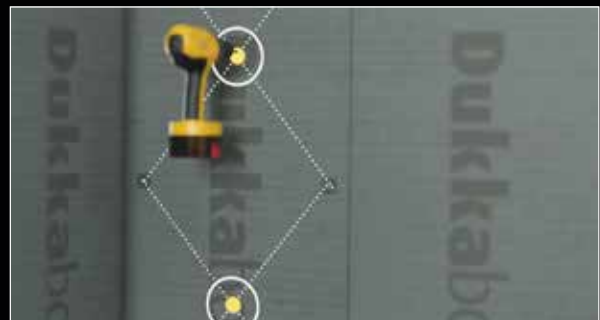
1. Spread the tile adhesive in curved sweeps using a notched trowel.



4. Continue application of adhesive and fitting of panels, ensuring all edges are tightly abutted.



2. Place the Dukkaboard Original-Panel into position.



5. After the panels are fitted and adhesive dried, reinforce with screws and washers or fixing dowels at 600mm centres, with centre fixings diagonally equidistant.



3. Tamp gently to ensure the panel is plumb and is making good contact with adhesive.



6. **Pro Tip** - Drill holes for fixing dowels using an 8mm masonry bit.



7. Fit fixing dowels in place and gently tap until flush.



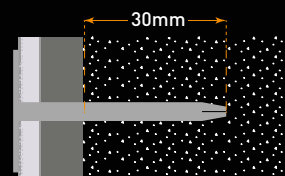
9. When all fixing dowels are in place apply joint reinforcement tape (dry area application only) before commencing the tiling work. N.B In wet areas, tape all joints with Dukkaboard Waterproof Tape or use the Aqua77 Tanking system.



8. Continue placing fixing dowels until all are in place.

## RECOMMENDED FIXING LENGTH

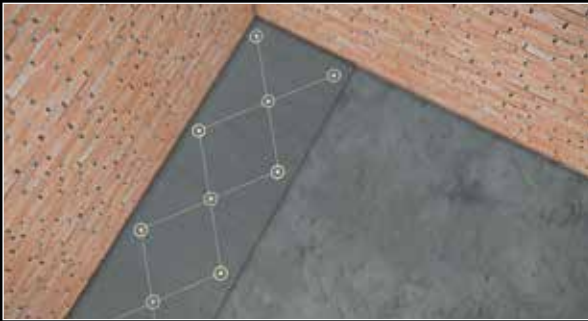
Use fixings of sufficient length to penetrate securely into sound substrate (as a guide, approx. 30mm minimum). Allow for the thickness of Dukkaboard and depth of adhesive behind.



# Dukkaboard®

## Fixing Dukkaboard Original-Panels to damaged masonry walls

When using Dukkaboard Original-Panels to reface damaged masonry walls you must use a mechanical fixing as well as tile adhesive. This will ensure a secure fixing into the substrate behind.



1. Adhesive should be applied at equal distances in the shape of an "X" with the outer square at 600mm fixing centres, and the centre fixing diagonally equidistant.



4. Continue application of adhesive and fitting of panels, ensuring all edges are tightly abutted.



2. **Pro Tip** - To aid with fixing positions later, use a small flat bladed screwdriver to pierce the panel though to the other side to mark the positions for the adhesive.



5. Once the adhesive is dry, reinforce with fixing dowels corresponding to the adhesive spots (marked earlier).



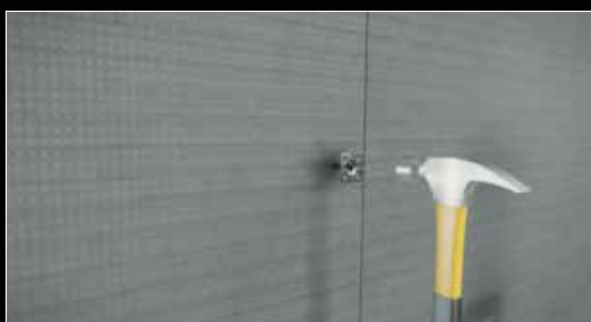
3. Lift panel in place and tamp gently to ensure it is level and is making good contact with adhesive.



6. **Pro Tip** - Drill holes for fixing dowels using an 8mm masonry bit.



Dukkaboard must be dot and dab fixed to damaged and uneven solid wall surfaces and fixing dowels must be used. Use a minimum of 12.5mm thickness Dukkaboard. Prime the wall using Aqua 77 Pro-Tile Primer before applying tile adhesive or Dukkaboard.



7. Position fixing dowels in place and gently tap until flush.



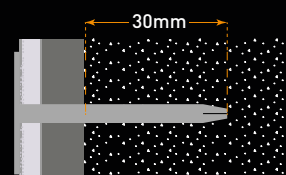
9. When all fixing dowels are in place apply joint reinforcement tape (dry area application only) before commencing the tiling work. N.B In wet areas, tape all joints with Dukkaboard Waterproof Tape or use the Aqua77 Tanking system.



8. Continue placing fixing dowels until all are in place.

## RECOMMENDED FIXING LENGTH

Use fixings of sufficient length to penetrate securely into sound substrate (as a guide, approx. 30mm minimum). Allow for the thickness of Dukkaboard and depth of adhesive behind.



# Dukkaboard®

## Fixing Dukkaboard Original-Panels to timber flooring-Using screws and washers

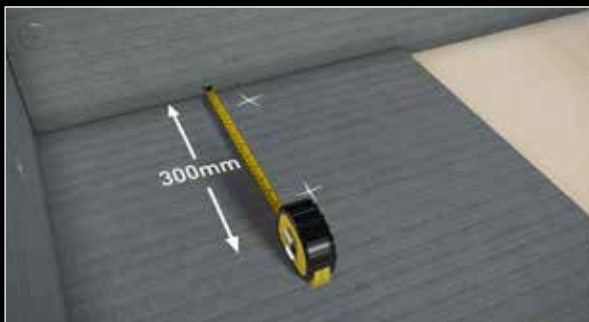
Ensure that the existing floor is flat and level, all floor material is screwed down securely, clean, and free from any loose materials.



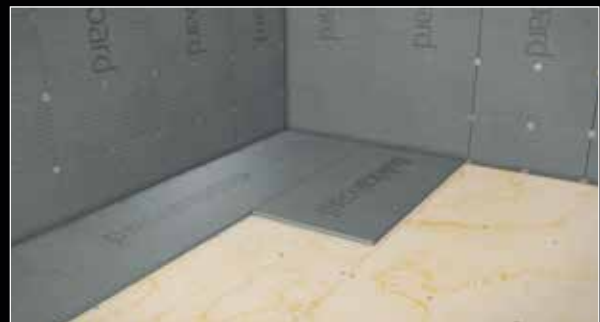
1. Starting in a corner of the room, place the first sheet of Dukkaboard Original-Panel in position.



4. Drive screws in firmly to ensure that the washer is flush with the panel surface. Do not overtighten.



2. Dukkaboard must be fixed using screws and washers at 300mm centres.



5. Dukkaboard must be laid in brick bond pattern, with staggered joints. **Pro Tip** - For this method, you can use Dukkaboard offcuts to help creating a brick bond pattern - however, as a guide, do not use Dukkaboard offcuts smaller than 200x200mm.



3. Fit screws and washers in the centre of the panel first. **Pro Tip** - Be aware of the location of pipes and wires, and avoid when fixing.



6. **Pro Tip** - Washers can be shared across panel edges



When fixing Dukkaboard to timber flooring using screws and washers, use a minimum of 10mm thick Dukkaboard, and use fixings of sufficient length to penetrate 20mm into the timber substrate. Allow for the thickness of Dukkaboard used.



7. Continue fitting Dukkaboard Original-Panels to the remainder of the floor.



9. Ensure all joints are reinforced.

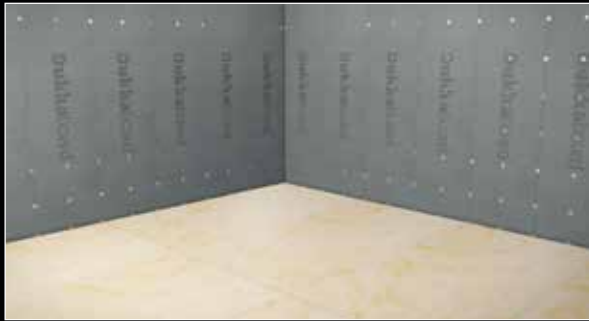


8. Once the floor is complete, reinforce with jointing tape - dry area tiling application only. N.B In wet areas, tape all joints with Dukkaboard Waterproof Tape or use the Aqua77 Tanking system.

# Dukkaboard®

## Fixing Dukkaboard Original-Panels to timber flooring-Using a solid bed of tile adhesive

Ensure that the existing floor is flat and level, all floor material is screwed down securely, clean, and free from any loose materials.



1. Prime the floor using Aqua 77 Pro-Tile Primer before applying adhesive or Dukkaboard Original-Panels.



4. Dukkaboard Original-Panels must be firmly butted together.



2. Select a trowel with an appropriate notch size for the application.



5. Tamp panels down to ensure that all the panel makes full contact with the adhesive.



3. When the adhesive is applied, place the Dukkaboard Original-Panels directly onto adhesive layer.



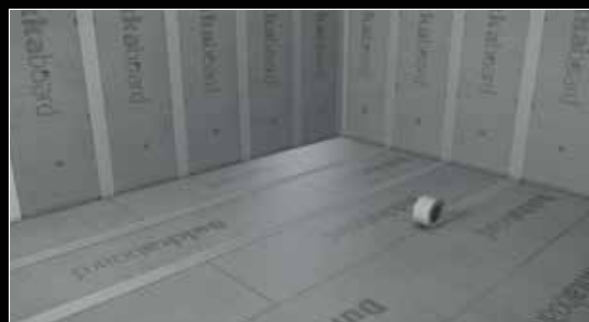
6. Ensure each panel is level with the adjacent panel.



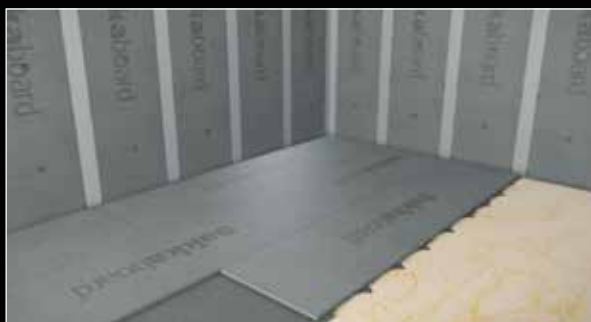
When fixing Dukkaboard to timber flooring using tile adhesive, use a minimum of 10mm thick Dukkaboard. You can also use 6mm Dukkaboard when fitted with both a bed of tile adhesive and reinforced with screws & washers.



7. Dukkaboard must be laid in brick bond pattern, with staggered joints.



9. Once the adhesive is dry, reinforce with jointing tape - dry area tiling application only. N.B In wet areas, tape all joints with Dukkaboard Waterproof Tape or use the Aqua77 Tanking system.



8. For this method, you can use Dukkaboard offcuts to help creating a brick-bond pattern - however, as a guide, do not use Dukkaboard offcuts smaller than 200x200mm.

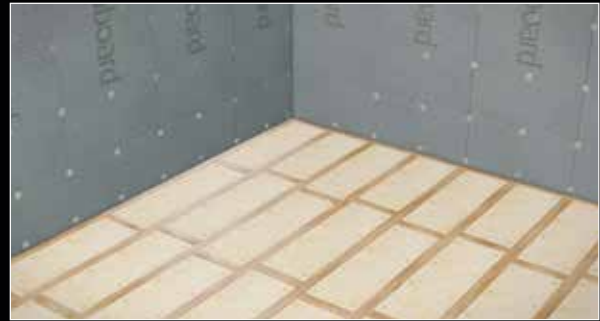
# Dukkaboard®

## Fixing Dukkaboard Original-Panels at joist level

To fit Dukkaboard at joist level, flooring grade plywood, a minimum of 18mm thick must be laid between joists, flush with the joist tops. This must be fixed to battens that are screwed securely to the sides of the joists.



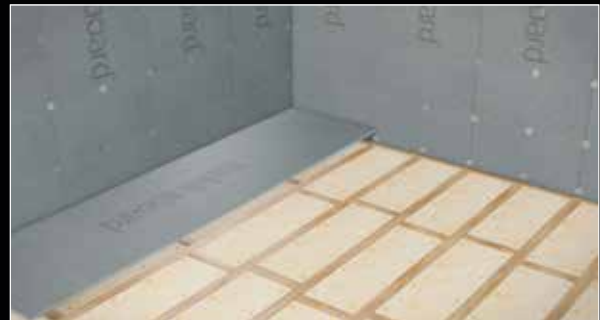
1. Infill battens must be securely fixed to the joists, down the same amount as the thickness as the infill wood.



4. Ensure that the new floor is flat and level, all floor material is screwed down securely, clean, and free from any loose materials.



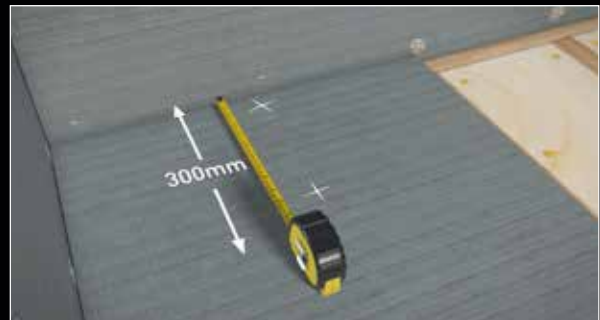
2. **Pro Tip** – For the extra strengthening of battens consider also using wood glue.



5. Starting in a corner of the room, place the first sheet of Dukkaboard Original-Panel in position.



3. All plywood infill pieces must be fixed to the battens. **Pro Tip** – Mark the location of pipes and wires on joists before fixing plywood inlays.



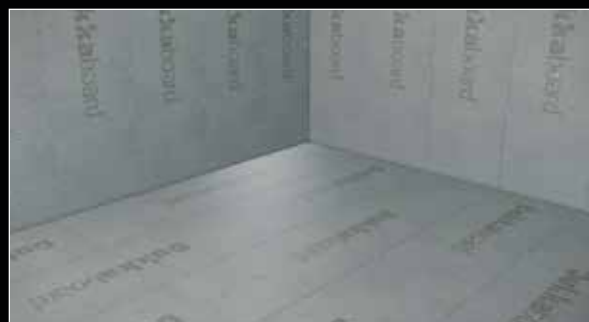
6. Dukkaboard must be fixed using screws and washers at 300mm centres. Fit screws and washers in the centre of the panel first.



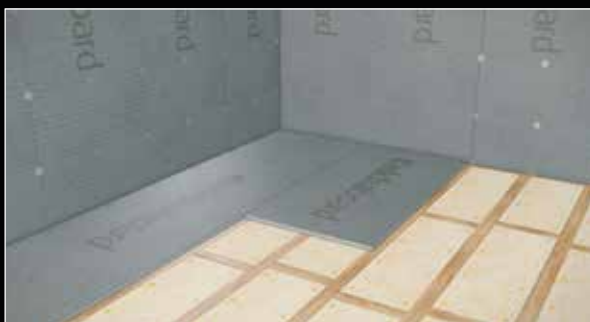
When fixing Dukkaboard to timber flooring using screws and washers, use a minimum of 10mm thick Dukkaboard and fixings of sufficient length to allow a minimum of 20mm penetration into the wooden substrate. Allow for the thickness of Dukkaboard used.



7. **Pro Tip** – Be aware of the location of pipes and wires, and avoid when fixing. Drive screws in firmly to ensure that the washer is flush with the panel surface. Do not overtighten.



10. Continue fitting Dukkaboard Original-Panels to the remainder of the floor.



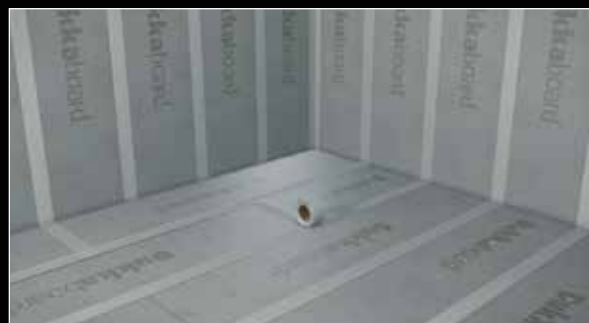
8. Dukkaboard must be laid in brick bond pattern, with staggered joints. **Pro Tip** – For this method, you can use Dukkaboard offcuts to help creating a brick bond pattern – however, as a guide, do not use Dukkaboard offcuts smaller than 200x200mm.



11. Once floor is complete, reinforce with jointing tape – dry area tiling application only. N.B In wet areas, tape all joints with Dukkaboard Waterproof Tape or use the Aqua77 Tanking system.



9. **Pro Tip** – Washers can be shared across panel edges.



12. Ensure all joints are reinforced.

# Dukkaboard®

## Fixing Dukkaboard Original-Panels to a concrete floor-Using a solid bed of tile adhesive

Ensure that the floor surface is clean and free from any loose materials.

The method shown in this guide (a thin, solid bed application of tile adhesive) can be used for any thickness of Dukkaboard.



1. Prime the floor using Aqua 77 Pro-Tile Primer before applying adhesive or Dukkaboard.



4. Dukkaboard Original-Panels must be firmly butted together.



2. **Pro Tip** - The correct notch size for combing out the adhesive bed is at least double the maximum undulation of the floor, measured under a 1m straight edge.



5. Tamp the panel down to ensure that all the panel makes full contact with the adhesive.



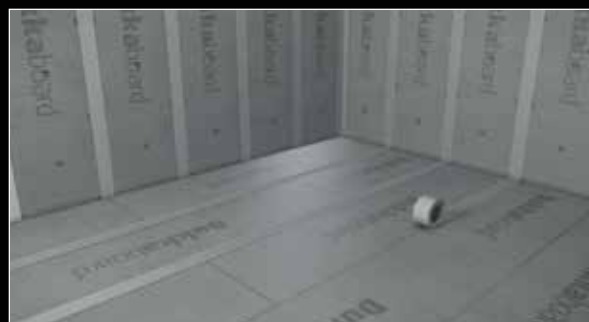
3. When adhesive is applied, place the Dukkaboard Original-Panels directly onto the adhesive layer.



6. Ensure panels are level with the previous panel.



7. Dukkaboard Original-Panels must be laid in brick bond pattern, with staggered joints.



9. Once adhesive is dry, reinforce with jointing tape - dry area tiling application only. N.B. In wet areas, tape all joints with self-adhesive tape or use the Aqua77 Tanking system.



8. For this method, you can use offcuts to help create a brick-bond pattern - however, as a guide, do not use Dukkaboard offcuts smaller than 200x200mm.



10. Ensure all joints are reinforced.

# Dukkaboard®

## Using Dukkaboard Original-Panels to create boxing

Where there are obstructions, such as surface run pipes, that cannot be recessed behind the wall surface, Dukkaboard Original-Panels can be used to create boxing without the need for timber battens and stud work.



1. Complete surrounding Dukkaboard surfaces before constructing and fitting boxing.



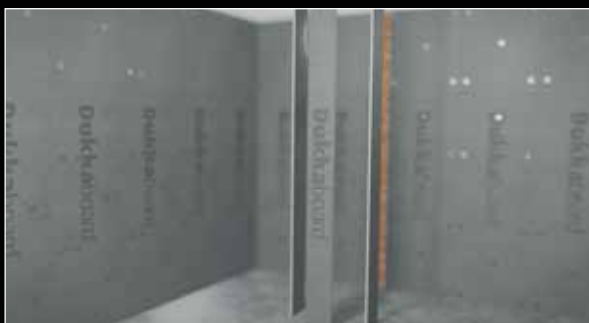
4. On adjoining edges run a continuous bead of Dukkaboard XL glue. Applying glue to one surface only is sufficient.



2. Cut pieces of Dukkaboard Original-Panels to create desired size of boxing.



5. Apply glue in a zig-zag pattern for best spread and adhesion. **Pro Tip** – To accelerate glue curing, moisten contact surfaces before glueing.



3. **Pro Tip** - Ensure edges are cut squarely.



6. Clamp firmly until glue has set - this will take approximately 30 minutes. **Pro Tip** – On boxings with more than one join or for complex shapes make boxing complete before fitting in position.



For self-supporting boxing without timber framework, use a minimum of 30mm thick Dukkaboard Original-Panel.



7. The boxing must be glued back to the Dukkaboard wall surface on either side of the obstruction with a bead Dukkaboard XL glue applied to contact edges of the boxing only.



9. When glue has dried apply joint reinforcement tape (dry area application only) before commencing the tiling work.



8. Ensure boxing is securely and firmly kept in position until glue has set - this will take approximately 30 minutes.

# Dukkaboard®

## Fitting a Dukkaboard Recess-Panel to stud walling

Ensure stud work is stable and level.

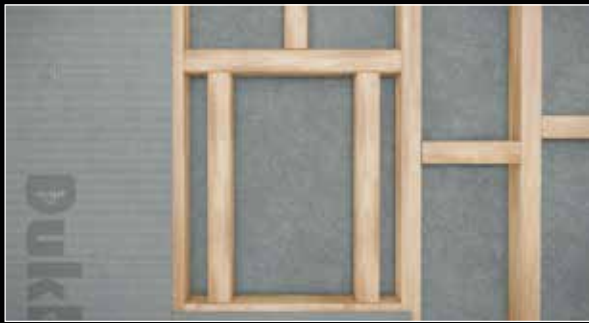
Dukkaboard Recess-Panel is fitted into studwork walls along with 12.5mm Dukkaboard Original-Panels. All edges of the Recess-Panel must be supported with supports.



1. Decide the desired height of the Dukkaboard Recess-Panel, and if required cut to size using a Stanley knife and straight edge.



4. Fix Dukkaboard Recess-Panel at 300mm centres (vertical spacing) using screws and washers allowing a minimum of 20mm penetration into the wooden studwork.



2. Ensure vertical and horizontal supports are in fitted around edges of the Dukkaboard Recess-Panel.



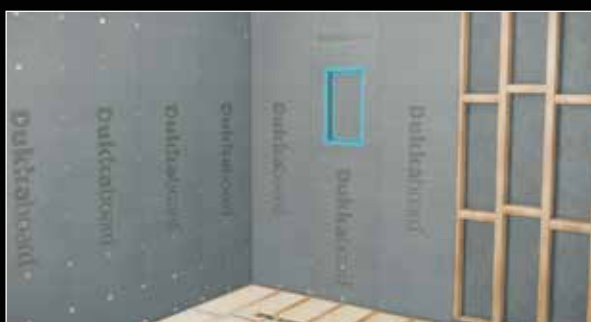
5. Drive screws in firmly to ensure that the washer is flush with panel surface. Do not overtighten.



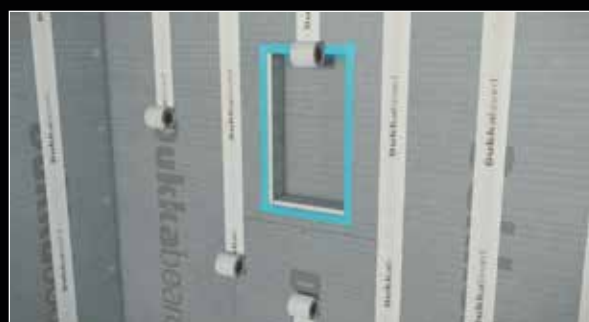
3. Ensure all panel edges are supported with a vertical or noggin behind and tightly abutted.



6. **Pro Tip** - Dukkaboard Recess-Panels can be fitted to the wall in a horizontal or vertical orientation as required.



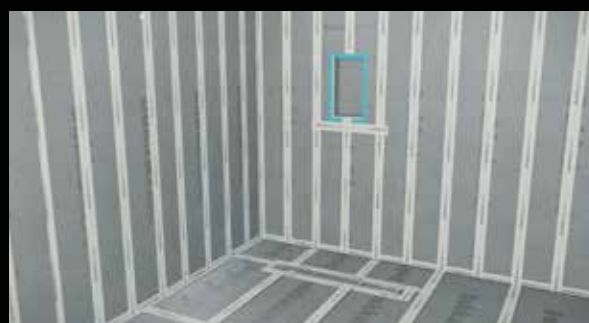
7. Continue fitting Dukkaboard Original-Panels to the remainder of the wall, fitting screws and washers in centre of board first.



8. When tiling, adhere supplied packer pieces in inner faces of the Dukkaboard Recess-Panel as required to accurately align the position of the opening with the grout in the tiling pattern.



8. When tiling, adhere supplied packer pieces in inner faces of the Dukkaboard Recess-Panel as required to accurately align the position of the opening with the grout in the tiling pattern.



10. Ensure all joints are reinforced. If preferred, Dukkaboard Aqua77 Fleece+ and Neo-Flex can be used for all board-to-board joints.

# Dukkaboard®

## Fixing Dukkaboard Wedge-Panels to timber flooring-Using screws and washers

Ensure that the existing floor is flat and level, all floor material is screwed down securely, clean, and free from any loose materials.

When fixing a Dukkaboard Wedge-Panel to timber flooring use suitable fixings to allow a minimum of 20mm penetration into the wooden substrate. Allow for the thickness of Dukkaboard used.



1. The Dukkaboard Wedge-Panel has a gradual gradient to allow for drainage of water. Ensure you always align the lower edge to drain edges or areas.



4. Ensure the Dukkaboard Wedge-Panel is correctly rotated so the thicker end backs on to the wall. Fix using screws and washers at 300mm centres, starting in the centre of the board first.



2. Measure and mark the Dukkaboard Wedge-Panel for cutting (measure from lower edge to ensure uniformity).



5. **Pro Tip** – Be aware of the location of pipes and wires, and avoid when fixing. Drive screws in firmly to ensure that the washer is flush with board surface. Do not overtighten.



3. Cut to the required size using a Stanley knife and straight edge.



6. Dukkaboard Wedge-Panels must be firmly butted together. **Pro Tip** - Washers can be shared across panel edges.



7. Continue fitting the Dukkaboard Wedge-Panels to the remainder of the floor. **Pro Tip** - To create a level floor surface meeting the edge of the Dukkaboard Wedge Panel, the remainder of the floor must be fitted with 20mm Dukkaboard Original-Panel.



9. Waterproof all joints with Dukkaboard Waterproof Tape (for wet zones). Ensure all joints are taped. If preferred, Dukkaboard Aqua77 Fleece+ and Neo-Flex can be used for all board-to-board joints.



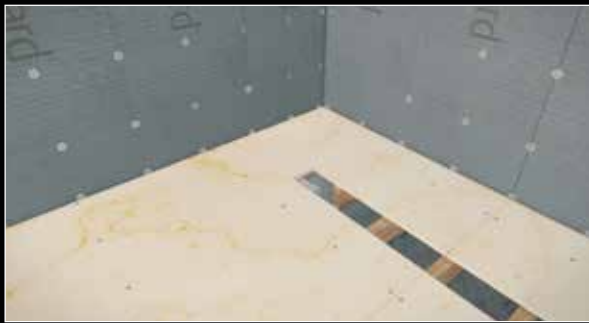
8. Once floor is complete, fit channel drain according to manufacturer's instructions.

# Dukkaboard®

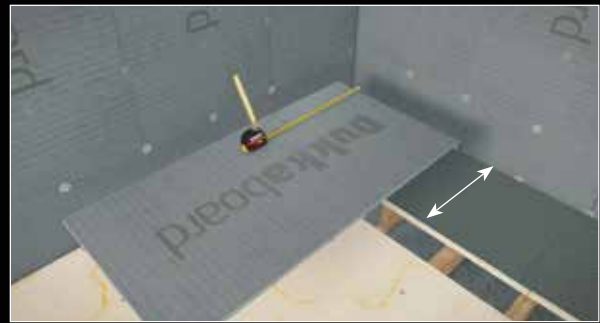
## Fixing Dukkaboard Wedge-Panels to timber flooring-Using a solid bed of tile adhesive

Ensure that the existing floor is flat and level, all floor material is screwed down securely, clean, and free from any loose materials.

The method shown in this guide (a thin, solid bed application of tile adhesive) does not require reinforcing with screws and washers.



1. Prime the floor using Aqua 77 Pro-Tile Primer before applying adhesive or Dukkaboard.



4. Measure and mark the Dukkaboard Wedge-Panel for cutting (measure from lower edge to ensure uniformity).



2. **Pro Tip** - The correct notch size for combing out the adhesive bed is at least double the maximum undulation of the floor, measured under a 1m straight edge.



5. Cut to the required size using a Stanley knife and straight edge.



3. The Dukkaboard Wedge-Panel has a gradual gradient to allow for drainage of water. Ensure you always align the lower edge to drain edges or areas.



6. Ensure the Dukkaboard Wedge-Panel is correctly rotated so the thicker end backs on to the wall. Place directly onto the adhesive layer.



7. Continue fitting the Dukkaboard Wedge-Panels to the remainder of the floor. **Pro Tip** - To create a level floor surface meeting the edge of the Dukkaboard Wedge Panel, the remainder of the floor must be fitted with 20mm Dukkaboard Original-Panel.



9. Waterproof all joints with Dukkaboard Waterproof Tape (for wet zones). Ensure all joints are taped. If preferred, Dukkaboard Aqua77 Fleece+ and Neo-Flex can be used for all board-to-board joints.



8. Once floor is complete, fit channel drain according to manufacturer's instructions.

# Dukkaboard®

## Fixing Dukkaboard Wedge-Panels to a concrete floor-Using a solid bed of tile adhesive

Ensure that the floor surface is clean and free from any loose materials.

Dukkaboard Wedge-Panels are installed with the Dukkaboard logo facing upwards.



1. Prime the floor using Aqua 77 Pro-Tile Primer before applying adhesive or Dukkaboard.



4. Measure and mark the Dukkaboard Wedge-Panel for cutting (measure from lower edge to ensure uniformity).



2. **Pro Tip** - The correct notch size for combing out the adhesive bed is at least double the maximum undulation of the floor, measured under a 1m straight edge.



5. Cut to the required size using a Stanley knife and straight edge.



3. The Dukkaboard Wedge-Panel has a gradual gradient to allow for drainage of water. Ensure you always align the lower edge to drain edges or areas.



6. Ensure the Dukkaboard Wedge-Panel is correctly rotated so the thicker end backs on to the wall.



7. Dukkaboard Wedge-Panels must be firmly butted together.



10. Once adhesive is dry, fit channel drain according to manufacturer's instructions.



8. Tamp the Dukkaboard Wedge-Panels down to ensure all the panel makes contact with the adhesive. Ensure panels are level with the previous panel.



11. Waterproof all joints with Dukkaboard Waterproof Tape (for wet zones). Ensure all joints are taped. If preferred, Dukkaboard Aqua77 Fleece+ and Neo-Flex can be used for all board-to-board joints.



9. Continue fitting the Dukkaboard Wedge-Panels to the remainder of the floor, ensuring all boards are tamped down and level. **Pro Tip** - To create a level floor surface meeting the edge of the Dukkaboard Wedge Panel, the remainder of the floor must be fitted with 20mm Dukkaboard Original-Panel.

# Dukkaboard®

## Fixing Dukkaboard Wedge-Panels at joist level

To fit a Dukkaboard Wedge-Panels at joist level, flooring grade plywood, a minimum of 18mm thick must be laid between joists, flush with the joist tops. This must be fixed to battens that are screwed securely to the sides of the joists.



1. Infill battens must be securely fixed to the joists, down the same amount as the thickness as the infill wood. **Pro Tip** – For extra strength for the battens consider using wood glue.



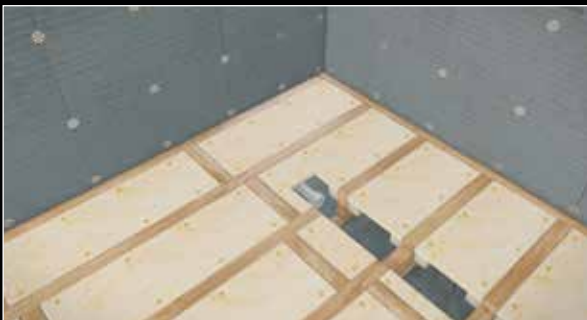
4. The Dukkaboard Wedge-Panel has a gradual gradient to allow for drainage of water. Ensure you always align the lower edge to drain edges or areas.



2. All plywood infill pieces must be fixed to the battens. **Pro Tip** – Mark the location of pipes and wires on joists before fixing plywood inlays.



5. Measure and mark the Dukkaboard Wedge-Panel for cutting (measure from lower edge to ensure uniformity).



3. Ensure that the new floor is flat and level, all floor material is screwed down securely, clean, and free from any loose materials.



6. Cut to the required size using a Stanley knife and straight edge. Before fitting, ensure the Dukkaboard Wedge-Panel is rotated correctly.



When fixing Dukkaboard Wedge-Panels to timber flooring use suitable fixings to allow a minimum of 20mm penetration into the wooden substrate. Allow for the thickness of Dukkaboard used.



7. The Dukkaboard Wedge-Panel must be fixed using screws and washers at 300mm centres. Fit screws and washers in centre of board first. **Pro Tip** – Be aware of the location of pipes and wires, and avoid when fixing. Drive screws in firmly to ensure that the washer is flush with board surface. Do not overtighten.



10. **Pro Tip** - To create a level floor surface meeting the edge of the Dukkaboard Wedge-Panel, the remainder of the floor must be fitted with 20mm Dukkaboard Original-Panel.



8. Dukkaboard Wedge-Panels must be firmly butted together. **Pro Tip** - Washers can be shared across panel edges.



11. Once floor is complete, fit channel drain according to manufacturer's instructions.



9. Continue fitting Dukkaboard Wedge-Panels to the remainder of the floor, fitting screws and washers in centre of panel first.



12. Waterproof all joints with Dukkaboard Waterproof Tape (for wet zones). Ensure all joints are taped. If preferred, Dukkaboard Aqua77 Fleece+ and Neo-Flex can be used for all board-to-board joints.

# Dukkaboard®

## Fixing a Dukkaboard Shower-Tray to timber flooring-Using screws and washers

Ensure that the existing floor is flat and level, all floor material is screwed down securely, clean, and free from any loose materials.



1. Ensure waste pipe is suitably located for fitting of the Dukkaboard Shower-Tray.



4. Ensure the alignment of the outlet in the tray, with the trap.



2. Solvent weld the trap into the waste pipe. **Pro Tip** – Check pipe is suitable for solvent weld and check connections are watertight before final installation of the Dukkaboard Shower-Tray.



5. Insert the threaded collar to join the Dukkabard Shower-Tray to the trap.



3. Ensure that the floor surface is level and lay the tray in place, taking care not to dislodge the rubber trap seal.



6. **Pro Tip** - The protection cap can be used to screw down the threaded collar by hand, and can be inserted to prevent dirt and debris entering the drain body until installation is complete.



When fixing Dukkaboard Shower-Trays to timber flooring, use screws and washers of sufficient length to allow a minimum of 20mm penetration into the wooden substrate. Allow for the thickness of the Dukkaboard Shower-Tray used.



7. Insert bucket and dip tube.



10. Continue fitting Dukkaboard Original-Panel to the remainder of the floor, fixing with screws and washers at 300mm centres, starting in the centre of the panels first.



8. Fix Dukkaboard Shower-Tray in place with screws and washers at 300mm centres, and inset 50mm from edges. Drive screws in firmly to ensure that the washer is flush with board surface. Do not overtighten.



11. Once Dukkaboard Shower-Tray and remaining floor is in place, waterproof all joints with Dukkaboard Waterproof Tape (for wet zones).



9. **Pro Tip** - To create a level floor surface meeting the edge of the Dukkaboard Shower-Tray, use the same thickness of Dukkaboard Original-Panel.



12. Ensure all joints and screw heads are taped. If preferred, Dukkaboard Aqua77 Fleece+ and Neo-Flex can be used for all board-to-board joints.

# Dukkaboard®

## Fixing a Dukkaboard Shower-Tray to a concrete floor-Using a solid bed of tile adhesive

Ensure that the floor surface is clean and free from any loose materials.



1. Ensure waste pipe is suitably located for fitting of the Dukkaboard Shower-Tray.



4. Prime the floor using Aqua 77 Pro-Tile Primer before applying adhesive or Dukkaboard. **Pro Tip** - The correct notch size for combing out the adhesive bed is at least double the maximum undulation of the floor, measured under a 1m straight edge.



2. Solvent weld the trap into the waste pipe.  
**Pro Tip** – Check pipe is suitable for solvent weld and check connections are watertight before final installation of the Dukkaboard Shower-Tray.



5. Carefully place the Dukkaboard Shower-Tray directly onto the adhesive layer, ensuring the alignment of the outlet in the tray with the trap. Tamp the tray down so it makes full contact with the adhesive.



3. Ensuring the seal on the top of the tap is level with the surrounding subfloor, and the centre of the trap corresponds with the centre of the outlet in the tray, back fill around the waste pipe (using tile adhesive is ideal) and allow to set.



6. Check the installed Dukkaboard Shower-Tray is level on leading edges.



7. Insert the threaded collar to join the Dukkaboard Shower-Tray to the trap.



10. Continue fitting Dukkaboard Original-Panels to the remainder of the floor, ensuring all the boards are tamped down and level.



8. **Pro Tip** - The protection cap can be used to screw down the threaded collar by hand, and can be inserted to prevent dirt and debris entering the drain body until installation is complete.



11. Once adhesive is dry, insert bucket and dip tube.



9. **Pro Tip** - To create a level floor surface meeting the edge of the Dukkaboard Shower-Tray, use the same thickness of Dukkaboard Original-Panel.



12. Waterproof all joints with Dukkaboard Waterproof Tape (for wet zones). Ensure all joints and screw heads are taped. If preferred, Dukkaboard Aqua77 Fleece+ and Neo-Flex can be used for all board-to-board joints.

# Dukkaboard®

## Fixing a Dukkaboard Shower-Tray at joist level

To fit Dukkaboard Shower-Tray at joist level, flooring grade plywood, a minimum of 18mm thick must be laid between joists, flush with the joist tops. This must be fixed to battens that are screwed securely to the sides of the joists.



1. Ensure waste pipe is suitably located for fitting of the Dukkaboard Shower-Tray.



4. All plywood infill pieces must be fixed to the battens.  
**Pro Tip** – Mark the location of pipes and wires on joists before fixing plywood inlays.



2. Solvent weld the trap into the waste pipe. **Pro Tip** – Check pipe is suitable for solvent weld and check connections are watertight before final installation of the Dukkaboard Shower-Tray.



5. Carefully position the Dukkaboard Shower-Tray, ensuring alignment of the outlet in the tray with the trap. Insert the threaded collar to join the Shower-Tray to the trap.



3. Infill battens must be securely fixed to the joists, down the same amount as the thickness of the infill wood. **Pro Tip** – For extra rigidity of battens consider also using wood glue.



6. **Pro Tip** – The protection cap can be used to screw down the threaded collar by hand, and can be inserted to prevent dirt and debris entering the drain body until installation is complete.



For fixing Dukkaboard to timber flooring use screws and washers of sufficient length to allow a minimum of 20mm penetration into the wooden substrate. Allow for the thickness of the Dukkaboard Shower-Tray used.



7. Insert bucket and dip tube.



9. **Pro Tip**- To create a level floor surface meeting the edge of the Dukkaboard Shower-Tray, use the same thickness of Dukkaboard Original-Panel. Continue fitting Dukkaboard Original-Panel to the remainder of the floor, fixing with screws and washers at 300mm centres, starting in the centre of the panels first.



8. Fix the Dukkaboard Shower-Tray in place with screws and washers at 300mm centres, and inset 50mm from edges. Drive screws in firmly to ensure that the washer is flush with board surface. Do not overtighten.



10. Once Dukkaboard Shower-Tray and remaining floor is in place, waterproof all joints with Dukkaboard Waterproof Tape (for wet zones). Ensure all joints and screw heads are taped. If preferred, Dukkaboard Aqua77 Fleece+ and Neo-Flex can be used for all board-to-board joints.

# Dukkaboard®

## Waterproofing Dukkaboard

In wet areas, Dukkaboard will require further waterproofing after fitting. This guide covers waterproofing of board to board joints, corners and over mechanical fixings.

### How to waterproof corners



1. Apply Dukkaboard Neo-Flex to the surface of the boards with a paint brush or small roller, making sure the surface covered exceeds the size of the Aqua 77 Fleece+ Corner.



2. Embed the Dukkaboard Aqua 77 Fleece+ Corner into the wet Neo-Flex, pushing well into the corner making sure it is thoroughly adhered to all surfaces.



3. Apply another coat of Neo-Flex Dukkaboard to the Aqua 77 Fleece+ Corner.

### How to waterproof board joints



1. Apply Dukkaboard Neo-Flex to the surface of the boards, making sure the surface covered exceeds the width of the Fleece+ Roll.



2. Embed the Fleece+ Roll into the wet Neo-Flex ensuring it is thoroughly adhered to the surface.

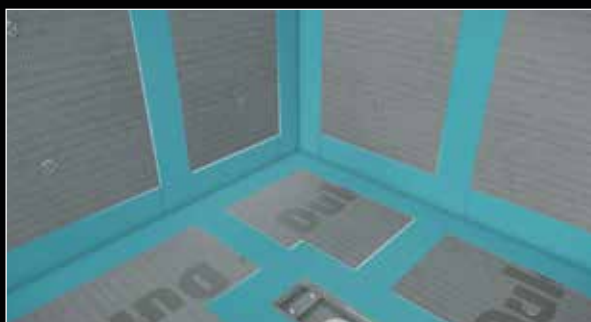


3. Apply another coat of Neo-Flex onto the Fleece+. **Pro-Tip** - Use the brush or roller to ensure any creases in the fleece are smoothed out.

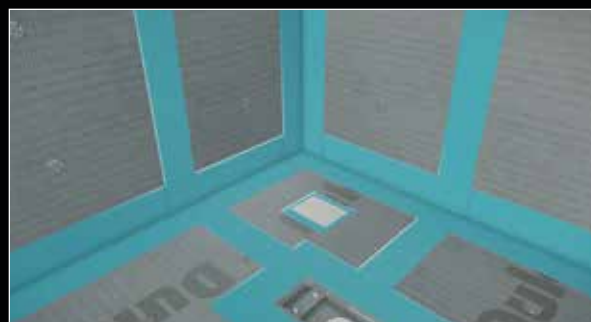


Please note - Neo-Flex dries quickly - ensure you complete the following steps in quick succession. Ensure Neo-Flex fully covers the Fleece+ and is completely dry before tiling. If any white fleece is still visible, re-coat with Neo-Flex.

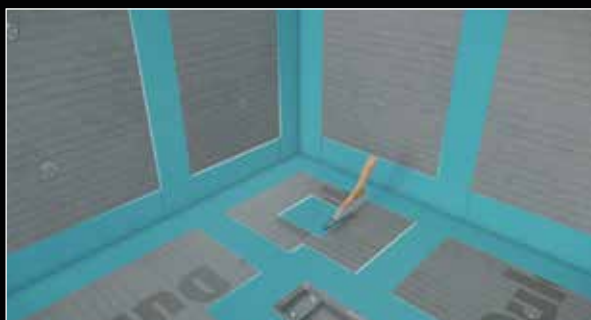
## How to waterproof mechanical fixings



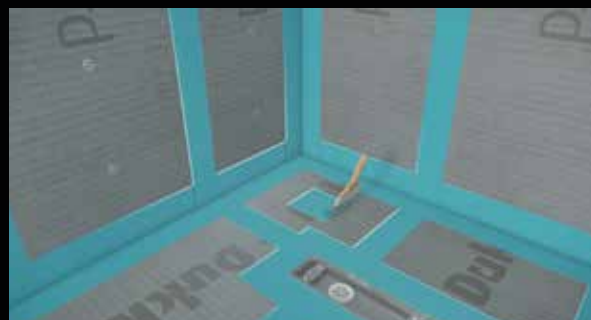
1. If you have used screws and washers or fixing dowels to fit Dukkaboard, please ensure these are suitably waterproofed.



3. Cut a 10x10cm square piece of Aqua 77 Fleece and embed into the wet Neo-Flex using the brush or roller to smooth into position.



2. Apply a coat of Dukkaboard Neo-Flex to the mechanical fixing, and to the Dukkaboard surface around.



4. Apply another coat of Dukkaboard Neo-Flex over the Fleece+ square.



# Dukkaboard®

## Pro-Tips

A selection of handy tips and tricks to help when installing Dukkaboard products

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- Always make cuts before fixing. Use a hardpoint saw, Stanley knife, jigsaw or circular saw in conjunction with a straight edge to ensure good clean cuts.
- Dukkaboard Panels and Trays should always be stored flat, under cover and on a dry level surface.
- Prime masonry using Aqua 77 Pro-Tile Primer before applying adhesive or Dukkaboard.
- To aid with mechanical fixing positions when using dot and dab method, use a small flat bladed screwdriver to pierce the board though to the other side to mark the positions for the adhesive.
- To accelerate Dukkaboard XL glue curing, moisten contact surfaces before glueing.
- When fixing Dukkaboard to timber flooring, mark the location of pipes and wires before fixing.
- Drive screws in firmly to ensure that the washer is flush with board surface. Do not overtighten.
- Washers can be shared across board edges.



## Specification

Dukkaboard Original-Panels, Recess-Panels, Wedge-Panels and Shower-Trays are manufactured from Hard Extruded Polystyrene (EPS) foam which satisfies the requirements for BS EN13164:2008. It has achieved a TR200 rating for bonding to cement mortar in accordance with BS EN1607:1997; coating with a flexible cement based mortar and reinforced with an alkali resistant fibreglass mesh.

## Technical Details

| Properties                                 | Standard | Unit               | Result    |
|--------------------------------------------|----------|--------------------|-----------|
| Load Strength (Vertical Plane)             | -        | Kg/m <sup>2</sup>  | 100       |
| Shear strength mortar (XPS @ 90° to Board) | EN 1607  | N/mm <sup>2</sup>  | 0.20      |
| Weight approx                              | -        | Kg/sqm             | 3-6       |
| Edge Profile                               | -        | -                  | Butt Edge |
| U Values                                   |          |                    |           |
| 6mm                                        | -        | W/m <sup>2</sup> k | 3.383     |
| 10mm                                       | -        | W/m <sup>2</sup> k | 2.528     |
| 12mm                                       | -        | W/m <sup>2</sup> k | 2.247     |
| 20mm                                       | -        | W/m <sup>2</sup> k | 1.549     |
| 30mm                                       | -        | W/m <sup>2</sup> k | 1.117     |
| 40mm                                       | -        | W/m <sup>2</sup> k | 0.873     |
| 50mm                                       | -        | W/m <sup>2</sup> k | 0.717     |

## XPS Core Properties

| Properties                                                         | Standard   | Unit              | Result      |
|--------------------------------------------------------------------|------------|-------------------|-------------|
| Bulk Density                                                       | EN 1602    | Kg/m <sup>3</sup> | > 30        |
| Thermal conductivity λD (Ageing process with gas-tight lamination) | EN 13164   | W/(m·K)           | 0.036       |
| Compressive Strength and/or Stress (At 10% Compression)            | EN 826     | N/mm <sup>2</sup> | > 0.25      |
| Change in Dimension under defined conditions                       |            |                   |             |
| 70°C Temperature / 90% Relevant Humidity                           | EN 1604    | %                 | ≤ 5         |
| 70°C Temperature / 40 kPa pressure                                 | EN 1605    | %                 | ≤ 5         |
| Vapour Diffusion resistance factor μ (Thickness Dependant)         | EN 12086   | -                 | 200-60      |
| Water absorption (Long Term Immersion)                             | EN 12087   | %                 | ≤ 1         |
| Linear Thermal Expansion Coefficient                               | -          | Mm/(m·K)          | 0.07        |
| Fire Behaviour                                                     | EN 13501-1 | Class             | Euroclass E |
| Working Temperature                                                | -          | °C                | -50/+75     |

## Board Properties

| Properties                | Standard | Unit | Result |
|---------------------------|----------|------|--------|
| Tensile Strength          | EN 1607  | kPa  | > 200  |
| Tolerances Width          | EN 822   | mm   | ± 2    |
| Tolerances Length         | EN 822   | mm   | ± 2    |
| Tolerances Rectangularity | EN 824   | mm   | ≤ 5    |
| Tolerances Evenness       | EN 825   | mm   | ≤ 2    |



# Dukkaboard®

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## The Knowledge Network

Technical information, support and installation guides from the expert team at Dukkaboard.





## Online Video Library

A range of videos and guides are available online to help you get the most out of Dukkaboard products and systems.



## Training

Through a network of professional and fully accredited installers, Dukkaboard offer training courses on all Dukkaboard products and solutions. By sharing our technical experience, installation skills and methods can be improved to reduce fitting times and ensure the best possible installation is carried out every time.



## Continuing Professional Development

Dukkaboard can offer a range of RIBA approved CPD's , to help architects, contractors and industry professionals understand the benefits and advantages of using Dukkaboard tile board systems and waterproofing solutions.





# STATEMENT OF WARRANTY

All Dukkaboard products are guaranteed for a period of twenty five (25) years from the original installation date (the 'term') by Dukkaboard. Providing the Dukkaboard system products are used and installed in accordance with the manufacturer's specific approved signed drawings Dukkaboard is fully guaranteed for the term as specified. Dukkaboard will vet and train a selection of contractors and issue a photographic approved installer certificate to confirm their suitability as an applicator. Dukkaboard will also monitor the installation regularly to approve the installation and confirm in writing that the installation has been fitted in accordance with specific approved signed drawings.

Dukkaboard system products will be free from material defects, and will not delaminate, split, splinter, rot or suffer structural damage, peel, blister, pit, flake, and crack or corrode, as a result of manufacturing defects. All warranties are subject to the exclusions, limitations and restrictions set forth below. If a Dukkaboard system product defect is discovered during the Term, Dukkaboard must, within thirty (30) days from the discovery of the alleged defect but not later than the end of the term, be notified in writing, at the following address: Dukkaboard, Kimberly Business Park, Keston, Kent BR2 6HL, or via email. Proof of Purchase, installation date and a statement of explaining the defect must be included in the notification. Dukkaboard may request additional information.

Dukkaboard will, at its option, either replace the Dukkaboard system defective products or refund the portion of the purchase price paid for such defective Dukkaboard system products (not including the cost of its initial installation) plus freight. This warranty shall not cover, and Dukkaboard shall not be responsible for, costs and expenses incurred with respect to the removal of the defective Dukkaboard products or the installation of replacement materials, including but not limited to labour.

The foregoing remedies are the sole and exclusive remedy for breach of any warranty. Exclusions from warranty coverage: Dukkaboard does not warranty against and is not responsible for, and no implied warranty shall be deemed to cover, any product failure, product malfunction, or damages contributed to; 1) Improper installation of the Dukkaboard products and/or failure to abide by Dukkaboard's installation guidelines; 2) Use of the Dukkaboard products beyond normal use, or in an application not recommended by Dukkaboard's guidelines; 3) Movement, distortion, collapse or settling of the ground or the supporting structure on which the Dukkaboard products are installed; 4) Any act of God (such as flooding, hurricane, earthquake, lightning, etc.); 5) Improper handling, storage, abuse or neglect of the Dukkaboard products. Limitations: Disclaimer of warranties: except for the express written warranty contained herein,

Dukkaboard makes no other warranties, guarantees or indemnities, whether express or implied, arising by law, course of dealing, usage of trade, custom or otherwise, including but not limited to the implied warranty of merchantability and implied warranty of fitness for a particular purpose, and all such other warranties, guarantees and indemnities are hereby disclaimed, overridden and excluded from this transaction. Limitation of remedies and exclusions of consequential and incidental damages: Dukkaboard's liabilities are limited solely and exclusively to the obligations specifically undertaken herein, and under no circumstances will Dukkaboard be liable or obliged for any incidental, consequential, indirect, special, punitive or any other damages of any kind whatsoever (including, but not limited to, lost profits, lost sales, losses of goodwill, use of money, use of goods, stoppage of work, or impairment of assets), whether foreseeable or unforeseeable, arising out of breach or failure of express or implied warranty, breach of contract, fraud, misrepresentation, negligence, strict liability in tort or otherwise, except and only to the extent this limitation is specifically precluded by applicable law of mandatory application.

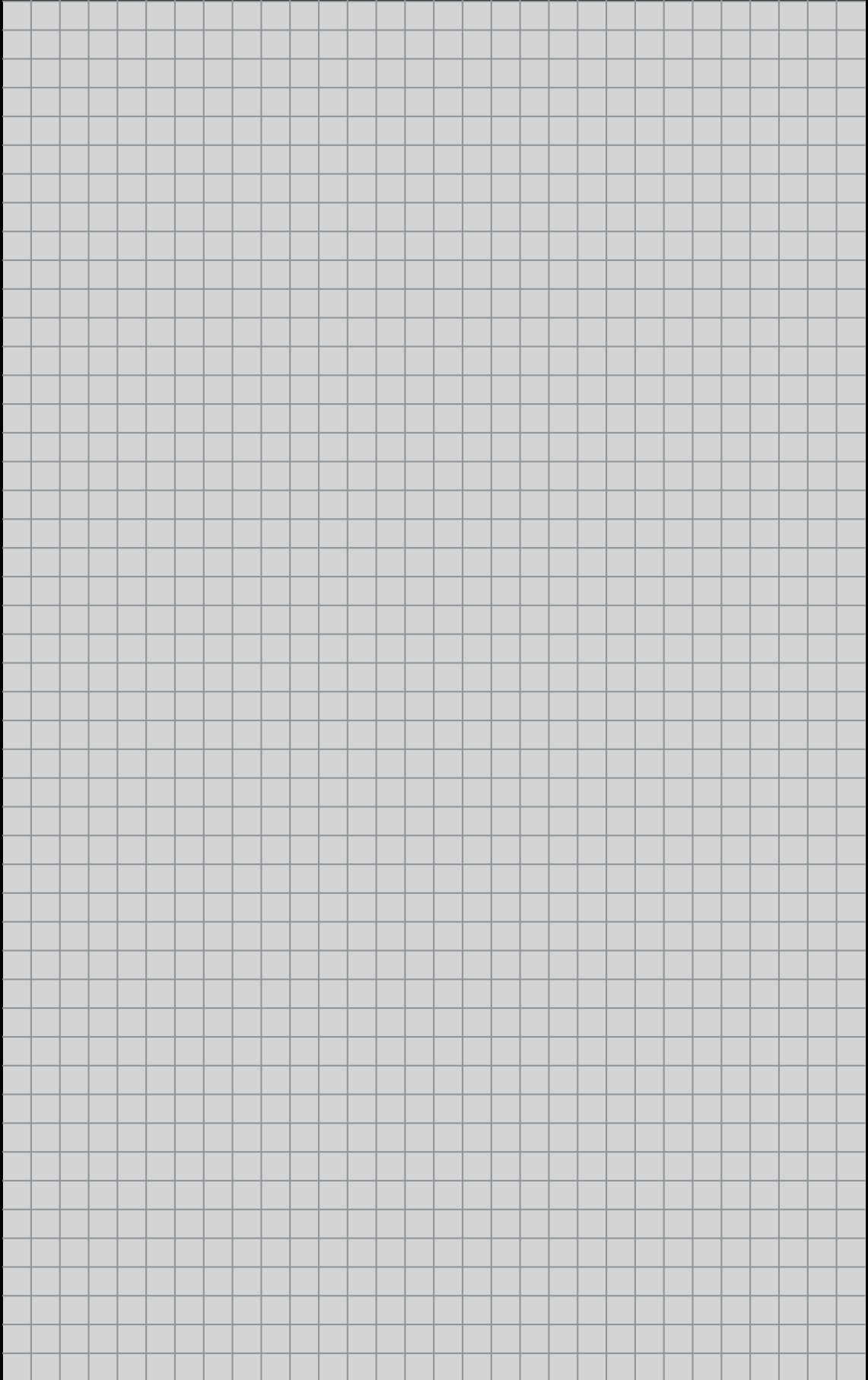
Dukkaboard's liability with respect to defective products shall in no event exceed the replacement of such products or refund of the purchase price, as described above. Miscellaneous: This writing is understood and intended to be the final expression of the parties' agreement and is a complete and exclusive statement of the terms and conditions with respect thereto, superseding all prior agreements or representations, oral or written, and all other communication between the parties relating to the subject matter of this agreement. This guarantee may not be altered or amended except in a written instrument signed by Dukkaboard.

No agent, employee or any other party is authorized to make any warranty in addition to that made in this agreement and Dukkaboard shall not be bound by any such statements other than those contained in this warranty. This warranty shall only be applicable and enforceable in the United Kingdom.

This warranty is effective for purchases made on or after April 1st 2014.

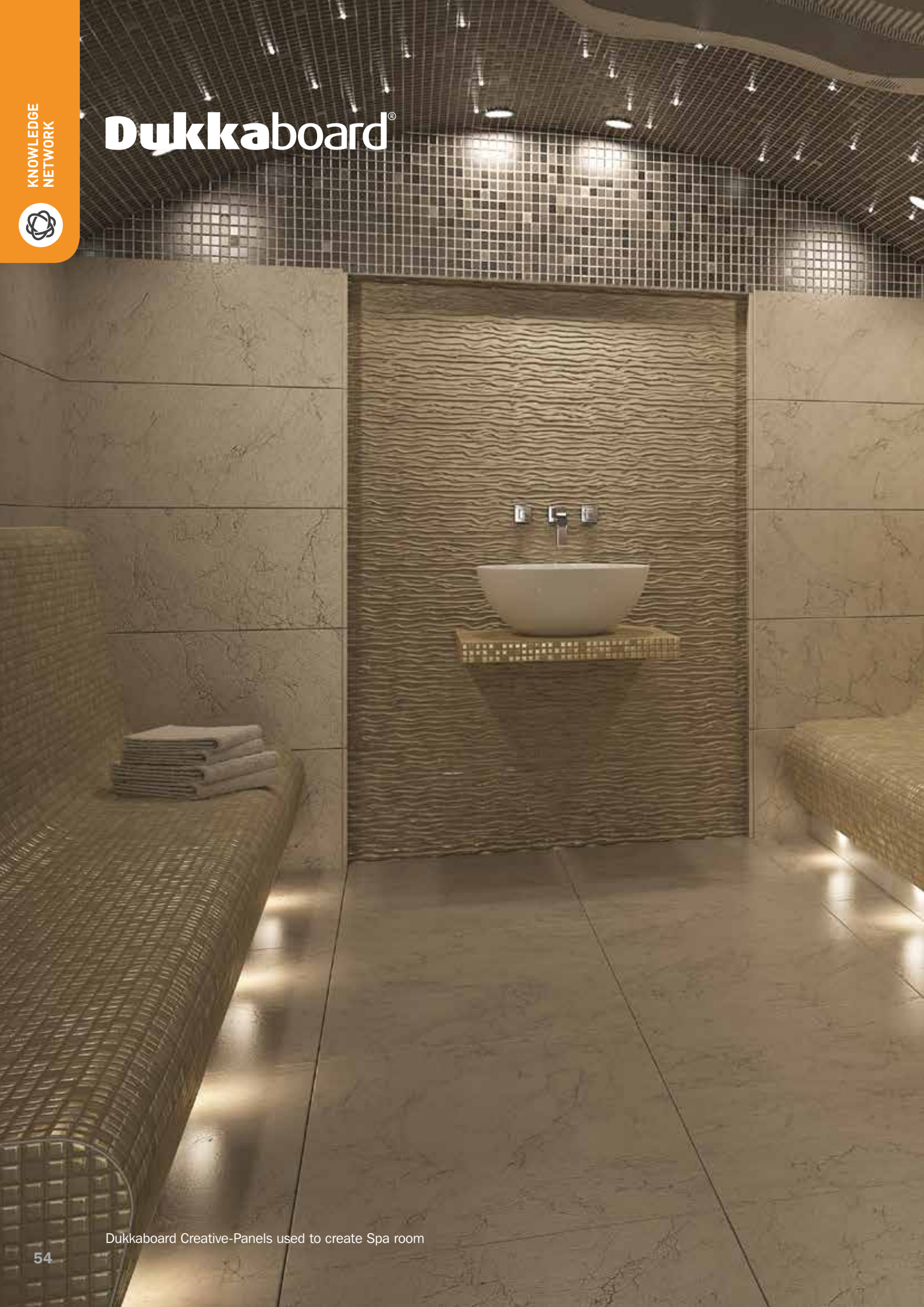
# Dukkaboard<sup>®</sup>

## NOTES

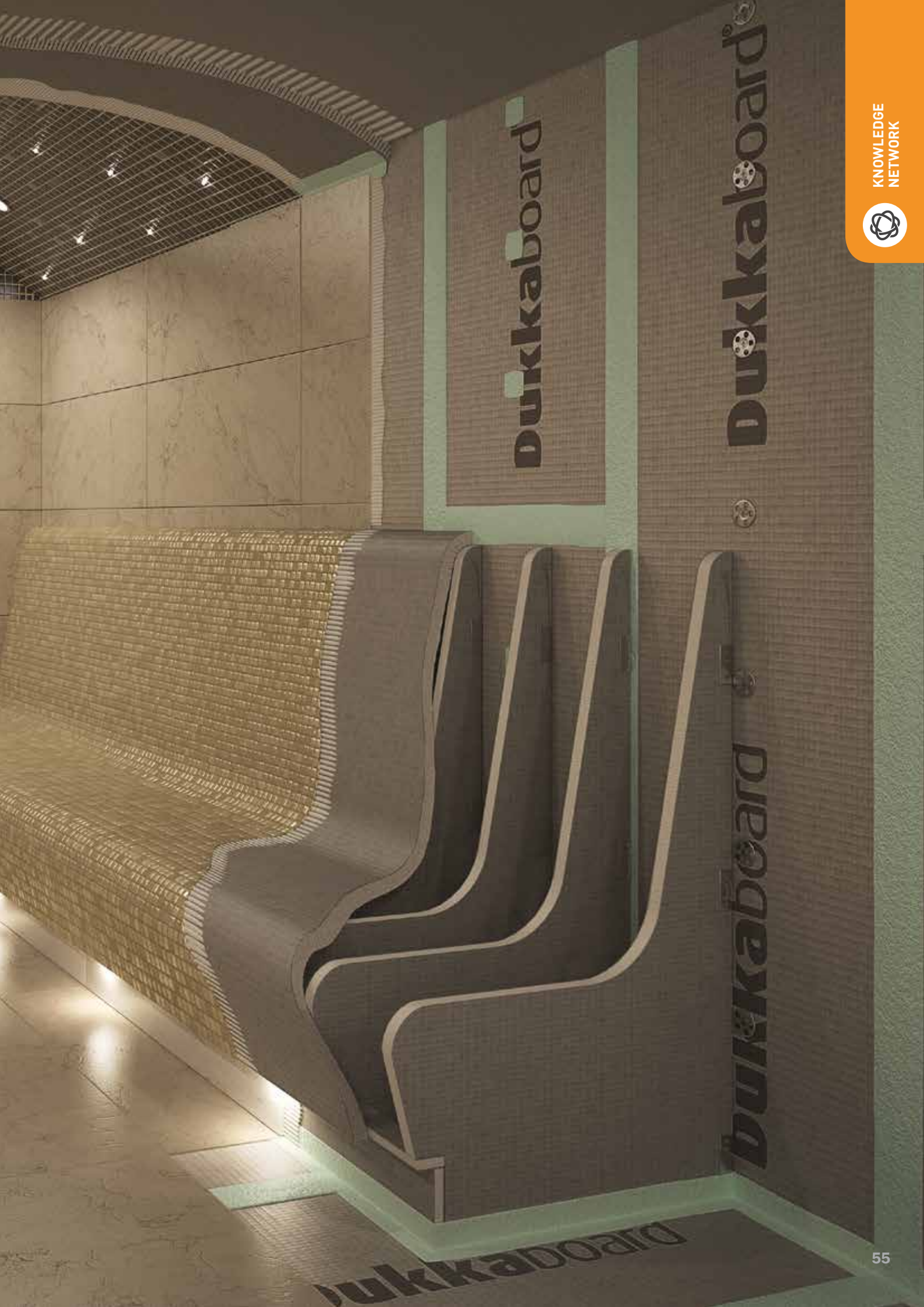




# Dukkaboard®



Dukkaboard Creative-Panels used to create Spa room



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KNOWLEDGE  
NETWORK



## The Knowledge Network

Technical information, support and installation guides from the expert team at Dukkaboard

