

# Reflex Activity Floor - Technical Specification and Installation Guidelines

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## Construction

Complete construction consisting;

Hardwood top layer

Middle layer of solid pine strips incorporating Kährs Woodloc® joint

Bottom layer of spruce veneer

6mm HDF support element

9mm foam polythene/polyether resilience element

## Thickness of hardwood surface layer

Approx. 4mm

## Surface Treatment

Pre-lacquered with UV-cured polyurethane/acrylic based lacquer (satin approx. 30° Gardner). The lacquer is free from solvents and formaldehyde. It is durable and preserves the woods natural character.

Court markings can be painted directly on the treated surface in accordance with the manufacturer's instructions. The line paint must be epoxy or polyurethane.

To increase resistance to wear and maintain slip resistance, we recommend that the floor be finished with additional coats of lacquer. Two coats of lacquer should be applied.

This process should be done after line marking if appropriate.

## Tests

Tested and approved in accordance with DIN 18032-2 and EN14904 A4 Category.

## Product specification

Board length – 2423mm

Width – 200mm

m<sup>2</sup>/board – 0.485m<sup>2</sup>

m<sup>2</sup>/pack – 1.94m<sup>2</sup>

m<sup>2</sup>/pallet – 62.08m<sup>2</sup>

Kg/board – 4.55kg

Boards/Pack – 4

Packs/Pallet – 32

Weight/Pack – 23kg

Weight/Pallet – 760kg

## Moisture Content

Moisture content when delivered: 7±2% (unopened packs)

## Packaging

Protective PE sheeting (recycled).

## General workmanship

Keep boards dry and in packaging before installation, do not open packaging until you are ready to begin installation. . Protect from dirt, stains and damage until practical completion using suitable coverings and boards laid as the work proceeds.

## Subfloor Specifications

To conform to BS8024 Part 1 1987 and should not deviate more than 3mm under a 3m straight edge, having a suitable damp proof membrane underneath in accordance with CP102.

## Moisture content of base

Where flooring is to be laid on a new concrete or screed base;

Ensure that drying aids have been turned off for not less than 4 days, then;

Test for moisture content using an accurately calibrated hygrometer in accordance with BS8201, appendix A.

Concrete should have cured for a minimum of 60 days.

Moisture content of floors not to be more than 5%

Moisture content of walls not to be more than 8%

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Take readings in all corners, along edges and at various points over the area being tested.  
Do not lay flooring until all readings show 65% relative humidity or less.

## Existing wood flooring

Condition: Boards securely fixed and acceptable level. Protruding fasteners punched in or countersunk.

## Environment

Do not start work specified before the building is weather-tight, wet trades have finished their work and the building is well dried out. Before, during and after laying, temperature and humidity must be maintained at levels approximating to those which will prevail after building is occupied. Ideal range of relative humidity to be 40-65% RH.

## Heating / Air Conditioning

Agree arrangement for operating the heating installation up to the date of practical completion of the works to ensure that excessive moisture movement of the flooring does not take place.

## Vapour check/Moisture Membrane

To be installed immediately below Reflex Activity boards.

Reflex Vapourstop 1200 gauge polythene (or suitable specified DPM) to be lapped by 150mm, taped and turned up at perimeter walls.

Ensure membrane is clean, dry and free from punctures and tears before laying flooring.

## Underfloor Heating

Activity Floor is suitable for installation on underfloor heating: Please see 'Reflex Technical - Underfloor Heating' datasheet.

## Maintenance

For more information, please see the Reflex Cleaning & Maintenance datasheet.

## Installation

Activity Floor is laid floating. This means the boards are laid loose on the subfloor and locked together by Kährs Woodloc®.

Allow for wastage of approximately 2% in a normal installation i.e. lengthways with the room.

## Expansion Gap

0.75mm per linear metre across the width of the room. i.e. Room is 15mtrs wide –  $15 \times 0.75\text{mm} = 11.25\text{mm}$  expansion gap around perimeter.

(A minimum of 10mm expansion gap around perimeter of the room is necessary).

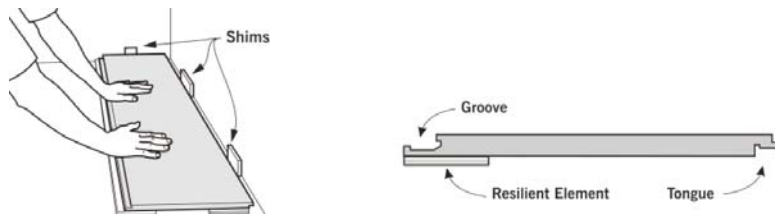
Expansion gaps can be covered by using Reflex Sports Profiles. Please contact Reflex for details: 0800 345 7085.

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## Installation

### Step 1

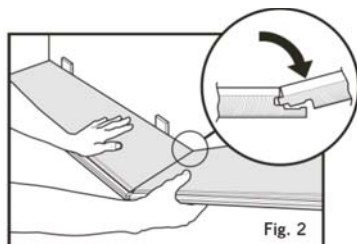
Boards should be laid parallel to the longest wall in the room. Start with groove side facing out toward the room. The use of shims against the walls on long and short perimeter edges of the boards is recommended in order to maintain the expansion gap. (See diagram below)



Place support / packing blocks (included in every pack) on the underside of the board as a perimeter support so that there is no resilience in the floor at the most outer edges (thus prohibiting any dirt or debris from getting between the boards and Skirting/Scotia). 3-4 support blocks per perimeter board is sufficient.

### Step 2

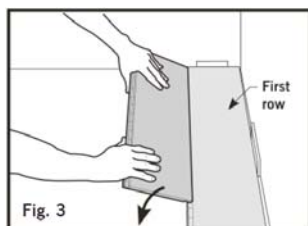
Hold the next board against the short end of the first board at approximately 45° angle and lay flat on the floor. Continue in this manner for the entire first row. (See fig. 2 below). Cut end board in first row to correct length and start second row with left-over piece (if possible) as shown in fig. 3.



### Step 3

End joints must be staggered across the room.

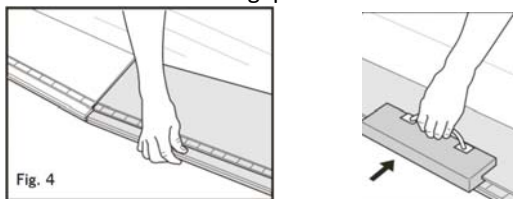
Hold board at approximately 45° angle to board in front. Press forward to engage joint and lay flat on the floor. (See Fig. 3 below)



### Step 4

Engage short end of next board (header) with initial board, lift the header joint slightly off the floor. Engage the long side with the adjacent board and tap together closing the long joint. (Reflex Activity Installation Block should be used for tapping the boards together). Do not tap too hard or over-engage. Do not tap directly against the wear layer. Boards should lay flat when fully engaged.

Note: There will be no gaps between the boards once they have been knocked together.



### Step 5

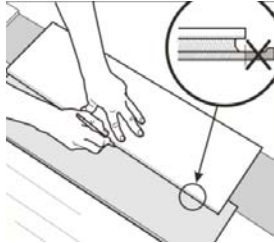
Continue in this manner until the last row.

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Please note that expansion gaps should be maintained around any *fixed* objects in the room.

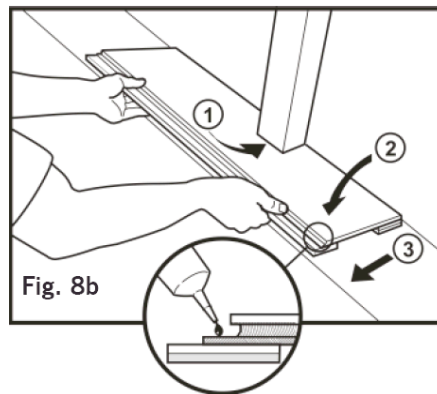
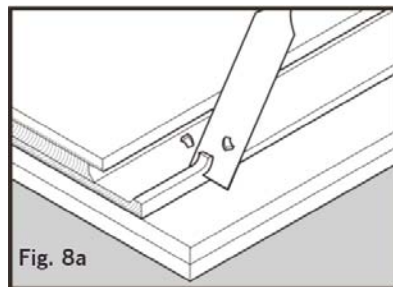
Preparing last row next to ending wall: To determine the correct board width, place last board on top of next-to-last board. Mark the last board with the help of a board without the locking edge as shown in the diagram below. Remember to allow for required expansion gap.

Note: Remember to use support/packing blocks along the last row as in Step 1.



### Step 6

Boards can be easily installed from all directions if necessary. Reflex Activity Floor dismantles easily. This enables easier planning for difficult installation areas. If boards cannot be easily angled under door frames or similar, cut away the locking edge (as shown in Fig. 8a). Then apply adhesive and install board as shown in Fig. 8b.



### Project completion

Remove expansion gap shims and install appropriate profiles (skirtings/scotias).

Note: Skirtings/Scotias must be attached to the wall and not the flooring.

Court Lines – Contact Reflex for more information on line marking.

As per the 'Surface Treatment' section above, Reflex recommend 2 additional coats of lacquer (after sports line markings if appropriate).

Any lacquer should be compatible with the factory finished lacquer present on the boards (BonaKemi).

Reflex only recommend you use Bona lacquers and maintenance products.

Please contact Reflex for information on access lids (if necessary) for equipment posts, electrical access points etc.

### Care and Maintenance

Please refer to the Reflex Cleaning and Maintenance datasheet.