

INTRODUCTION

TorFloor 2® RdB is a high performance underfloor heating system that provides a floor, underfloor heating and floor deck in one assembly. TorFloor 2® should be used to fully substitute a floor deck and is intended to be laid directly onto supporting joists or battens. The system has been tested to ensure structural integrity. Testing certification information is available from www.omnie.co.uk.

TorFloor 2® RdB system comes complete with two component layers: TorFloor 2® RdB Deck Panels and TorFloor 2® Cover Panels. Both come proportionally routed to encase 12mm PE-RT pipe. The TorFloor 2® Cover Panel features OMNIE's advanced AL HEX® foil heat emitter technology pre-bonded to the underside. The top surface comes clearly printed for convenient visual reference to pipe locations for ease of fixing plus others and future trades will know there is an OMNIE UFH system in place and where the UFH pipe is located.

This guide is suitable for installing TorFloor 2® RdB into both joist and batten floor constructions. For brevity, 'joist' is used throughout.

SPECIFICATION

TorFloor 2® RdB evolves the market-leading TorFloor® Panels by coming complete with dedicated TorFloor 2® Cover Panels in 12mm ply. Panels are proportionally routed with matching channels that perfectly align around the pipework.

The TorFloor 2® RdB Deck Panel is made from 22mm P5 moisture resistant chipboard with pre-routed pipe channels at 150mm centres to accept 12mm PE-RT pipe, this then has the 8mm RdB Acoustic rubber layer bonded to the underside.

For TorFloor 2® RdB the Cover Panels are supplied in 12mm ply. These feature OMNIE's advanced patented AL HEX® heat diffuser technology bonded to the underside. This allows the heat diffuser to have greater contact with the heating pipe transferring more heat into the Cover Panel resulting in improved heat output. The Cover Panels are also fully printed giving a visual reference to pipe locations, this ensures the pipes cannot be damaged when fixing the Cover Panels. This also provides the perfect reference for others and future trades to see.

The 12mm ply TorFloor 2® Cover Panels are suitable for most floor finishes. In all cases with underfloor heating you should always refer to the flooring supplier/manufacturers instructions and recommendations.

NOTE: When using TorFloor 2® Rdb for acoustic floors, It is recommended that 12mm ply TorFloor 2® Cover Panels are used.

TorFloor 2® System has been structurally tested to the latest standards (tested to BS EN 1195) when laid over 400mm joist centres.

TECHNICAL DETAILS

TorFloor 2® RdB Deck Panel

2400mm x 600mm x 22mm P5 grade tongue and groove chipboard

TorFloor 2® Cover Panels (Printed)

1200mm x 600mm x 12mm ply

System Thickness

38mm (8mm RdB + 22mm Deck Panel + 12mm ply Cover Panel)

Weight with Water

26.4kg/m² (12mm ply Cover Panel)

Pipe

12mm PE-RT to DIN 4726

Pipe Centres

150mm

Floor Deck - Joist/Batten

Floor deck to meet at least SR2 (5mm deviation in 2m) requirements for floor regularity (BS8204) and preferably SR1 (3mm deviation in 2m)

ACOUSTIC RUBBER DATA

Nominal Density

900 kg/m²

Hardness

65 Shore A / Tolerance +/- 0.1

Specific Gravity

1.20 kg/dm³ / Tolerance +/- 0.1

Colour / Appearance

Black rubber granules

Binder

Polyurethane

Odour

No objectional odour

HEAT OUTPUT

Heat outputs are dependent on the water temperature, floor construction, system dimensions, floor finish & design conditions. Please call 01392 36 36 05 to discuss your specific requirements.

As a guide the heat outputs below are based on:

Air Temperature = 20°C.

Floor Finish	55/48 (°C)	50/43 (°C)	45/38 (°C)	40/33 (°C)
TF2 + 12mm Ply Cover Panel - Tile Finish (0.01m²K/W)	92 W/m²	77 W/m²	62 W/m²	47 W/m²
TF2 + 6mm woodboard Cover Panel - 15mm Wood Finish (0.1m²K/W)	80 W/m²	67 W/m²	54 W/m²	41 W/m²
TF2 + 6mm woodboard Cover Panel - Carpet & Underlay (0.15 m²K/W)	71 W/m²	60 W/m²	49 W/m²	37 W/m²