

INTRODUCTION

LowBoard RdB is a low build up underfloor heating system with an integral acoustic separation layer. It is designed to dampen vibration and attenuate impact and airborne sound passing through floors with minimum loss of floor height. The system can be laid on solid or timber floors and is supplied with acoustic edge isolation strip.

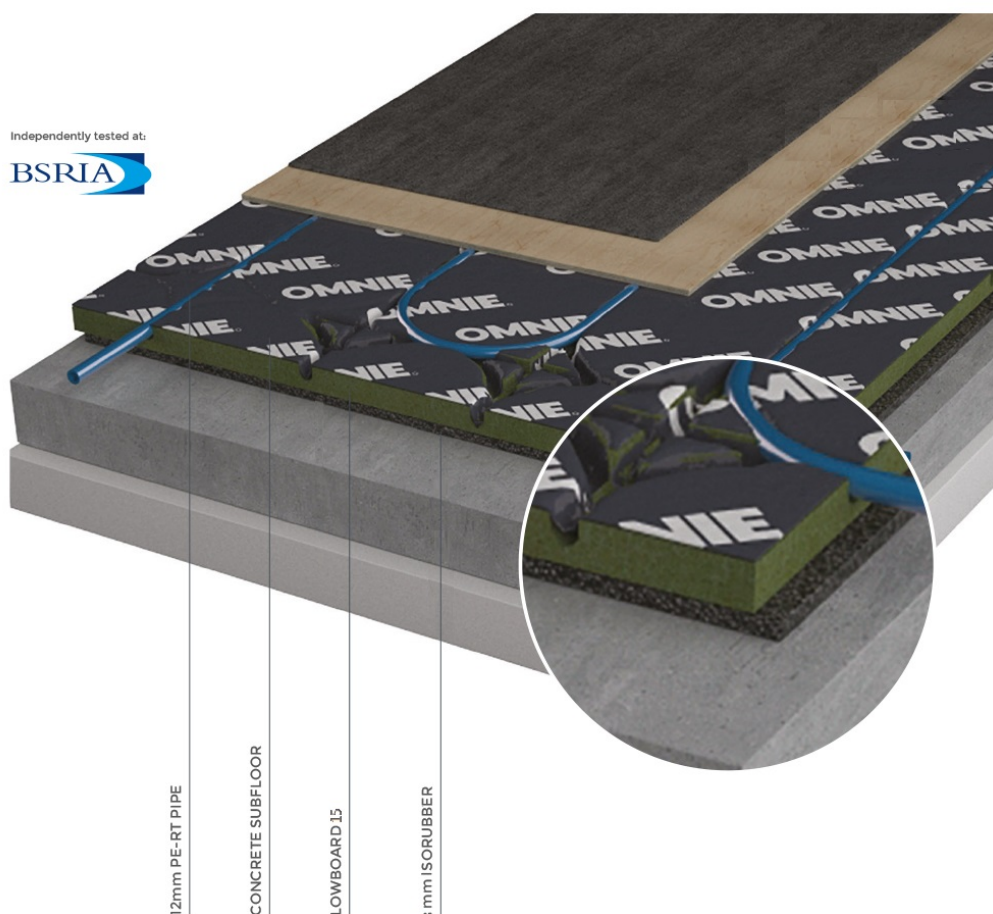
The LowBoard RdB System comprises of a 15mm high-density wood board with a integral 8mm acoustic rubber underlay and separate acoustic edge strip.

The acoustic edge isolation strip is fixed around the room perimeter then LowBoard Rdb panels installed, this has grooves routed to accept our 12mm pipe with the aluminium layer bonded to the top which acts to spread the heat through the floor. The panels are laid in a brick pattern with the pipe installed by piercing through the soft temper aluminium diffuser into the multi directional channels. A finished floor deck or minimum 6mm ply, MDF or similar is floated or mechanically fixed over the LowBoard RdB System to complete the floor.

NOTE: The 6mm intermediate layer or directly laid finished floor deck (if fixing required) must be screws (not nailed or glued) and they must not protrude through the 15mm timber layer.

Existing Slab/Floor Deck

Existing slab/floor deck to meet at least SR2 (5mm deviation in 2m) requirements for floor regularity (BS8204) and preferably SR1 (3mm deviation in 2m). The floor finish company may have their own requirements which take precedence.



SPECIFICATION

OMNIE LowBoard RdB system with a total build up of 23mm to the top of heating panel, it consists of 15mm wood board routed to accept 12mm PE-RT pipe to DIN 4726 at 150mm centres and factory fitted with aluminium heat diffuser and integral 8mm acoustic rubber layer. LowBoard RdB panels to be floated as a continuous layer over a sub-floor. A minimum 6mm covering layer of ply, MDF or similar is then in turn mechanically fixed over the LowBoard RdB panels to receive a final floor finish. If engineered timber or timber laminate is used there is no need for a covering layer on top of the LowBoard RdB. The system is to be designed, installed and commissioned to BS1264.

NOTE: The 6mm intermediate layer or directly laid finished floor deck (if fixing required) must be screws (not nailed or glued) and they must not protrude through the 15mm timber layer.

ULTRALOW – LowBoard RdB panel at only 23mm. This product reduces build up to only 29mm combined with a 6mm ply covering layer. For more information on UltraLow Technology see IG DS 24

LAYFAST – Speed up installation time. This product uses our multi-directional pipe channel system.

For more information see IG DS 22

DRYSYSTEM - No wet trades required, designed for dry constructions.

For more information see IG DS 23



TECHNICAL INFORMATION

LowBoard RdB Panel

Dimensions: 608mm x 1218mm x 23mm

composite wood board panel with integrated diffuser and 8mm acoustic rubber.

Acoustic IsoRubber

Density: Approx. 910kg/m³

Tensile Strength: 1.0N/mm² (EN ISO 1978)

Elongation at Break: 80% (EN ISO 1978)

Service Temp Range: -30°C to + 80°C

System Thickness

23mm - 29mm with 6mm covering layer (not supplied)

Panel weight with water and IsoRubber

15.64kg/m²

UFH Pipe

12mm PE-RT to DIN 4726

Centres: 150mm

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.

Heat outputs below are based on 12mm PE-RT pipe at 150mm centres with 6mm ply laid under carpet and 12mm ply under tiles. Air Temperature = 20°C.

(0.15 m²K/W = 1.5 TOG).

Floor Finish	55/48 (°C)	55/43 (°C)	45/38 (°C)	40/33 (°C)
Tile Finish (0.01m ² K/W)	84 W/m ²	70 W/m ²	57 W/m ²	43 W/m ²
15mm Wood Finish (0.1m ² K/W)	82 W/m ²	69 W/m ²	56 W/m ²	42 W/m ²
Carpet & Underlay (0.15 m ² K/W)	70 W/m ²	59 W/m ²	47 W/m ²	36 W/m ²