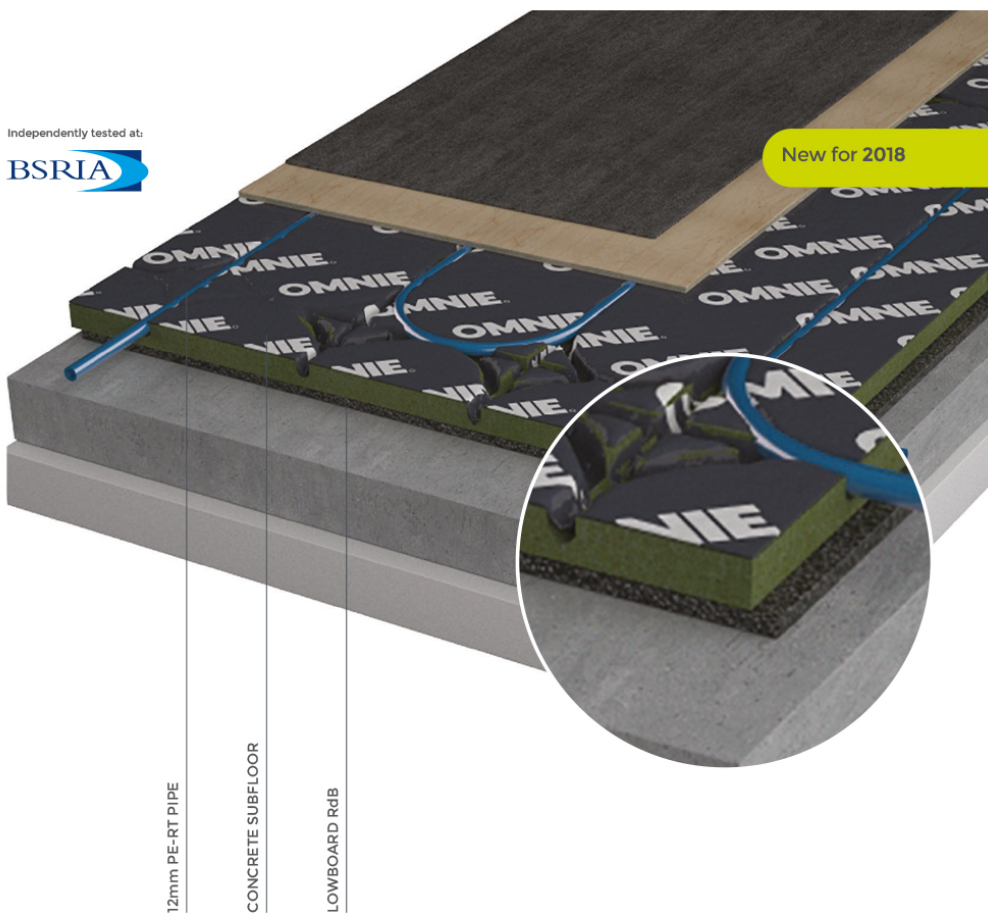


INTRODUCTION

LowBoard RdB is a low build up underfloor heating system and acoustic separation in one. 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 edge isolation strip.

The LowBoard RdB panels comprise of a 15mm moisture resistant high-density wood board combined with an 8mm acoustic rubber offset to provide a lap joint. As per our standard LowBoard 15 product the wood board layer has grooves routed to accept 12mm pipe and an 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 6mm ply, MDF or similar is floated or mechanically fixed over the LowBoard RdB panels to complete the floor.



SPECIFICATION

OMNIE LowBoard RdB system with a total build up of 23mm consists of an 8mm acoustic rubber layer and 15mm moisture resistant wood board routed to accept 12mm PE-RT pipe to DIN 4726 at 150mm centres and factory fitted with aluminium heat diffuser. LowBoard RdB lap jointed panels to be floated and glued together as a continuous layer over a sub-floor. A 6mm covering layer of ply, mdf or similar is then in turn mechanically fixed over the LowBoard 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.

ULTRALOW - Our thinnest panel at only 15mm. This product reduces build up to only 22mm 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 multidirectional 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

15mm moisture resistant wood board panel with integrated diffuser incorporating an acoustic rubber layer beneath.

Panel Thickness

23mm

Panel Dimensions

1200 x 600mm

Weight with water

14.6kg/m²

Pipe

12mm PE-RT to DIN 4726

Pipe Centres

150mm (as standard)

200mm (for new build)

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.

HEAT OUTPUT

Heat outputs are dependent on the water temperature, floor construction, system dimensioning, 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