

RailTherm

Description

RailTherm Rolling Stock Thermal Insulation is manufactured from a core product of shot-free, non-combustible glass fibre that can be die-cut to size and shape and is usually totally encapsulated in a reinforced aluminium foil vapour barrier. **RailTherm** is available in a range of densities and a full or striped self-adhesive system can be added to one or more sides if required.



Colour - Bright Aluminium

Environmental Consideration

RailTherm is non-carcinogenic.

Application

RailTherm is used extensively on existing and new build HST, Urban, electric and diesel propelled trains on the UK mainland and other European countries. The bespoke shaped, aluminium skinned self-adhesive parts are used in the cavity between the inner and outer fabrication of the rolling stock in the ceilings, sides, intermediate ends, floors and cabs, to offer thermal insulation that will meet the highest required British Rail Standard BS6853 Cat 1a.

Design, Prototype and Testing

Technical Engineering staff are available to work with rail vehicle engineers and manufacturing design teams to take projects through from original concept, to prototype, commissioning and on to volume production. Technical advice is available throughout the process to ensure overall performance objectives are achieved. **Hodgson & Hodgson Group's** Technical Department is able to interface with most popular CAD Modelling Packages via e-mail, or through more traditional means.

Operating Temperature

The core of this product can be used at continuous operating temperatures up to 230°C and down to cryogenic temperatures, providing a 100% vapour barrier is maintained to prevent ingress of moisture vapour. The vapour barrier used on the standard **RailTherm** product will resist temperatures from -5°C to + 90°C. The core of the product may be used at temperatures up to 540°C in selected applications.

Fire Performance

RailTherm complies with the Class O requirements of the British Standard BS476: Part 6 (fire propagation) and Class 1 of the British Standard BS476: Part 7 (surface spread of flame). This product also meets the requirements for BS6853:1999 Annex B.2 (toxic fume test) and BS6853:1999 Appendix D, Clause D.8.4 (smoke test).

Thermal Conductivity

Glass fibre core	24kg/m ³	-	0.035 W/mK
Glass fibre core	32kg/m ³	-	0.034 W/mK
Glass fibre core	48kg/m ³	-	0.032 W/mK

Chemical Resistance

Corrosion 60°C / 95% R.H. / 24h.

Permanence

RailTherm is rot-proof, odourless, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Application and Fixing

Hodgson & Hodgson Group Ltd has a long history and expertise in the manufacture and supply of **RailTherm** bespoke parts that are generally arranged into ready to fit kits that arrive at the rail builder's footprint in a first out first fit format. **Hodgson & Hodgson** are able to produce many complex shapes, sizes and even roll out parts up to 10 metres in length.

For Further Information

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