

Product Data Sheet

HYTHERM LQ

High compressive strength PIR insulation overlay board for cold applied liquid and single ply flat roof waterproofing

Hytherm LQ is a high performance, tissue-faced rigid PIR insulation board primarily for use in overlaying new and existing flat roofs, walkways and balconies waterproofed with cold applied liquid waterproofing membranes. It is used in conjunction with an Axter carrier membrane and helps to resist damage from foot traffic and heavy loads.

It can also be used with other waterproofing systems, such as single ply PVC and reinforced bitumen membranes (RBMs) where a high compressive strength board is needed to spread the load and provide extra protection.

Hytherm LQ comprises a high performance rigid thermoset PIR fibre free insulation core. The board is manufactured with a coated glass tissue-based facing bonded to the insulation core during manufacture. Its thermal conductivity is as low as 0.028 W/m-K and compressive strength is high, typically exceeding 400 kPa at 10% compression.



Key benefits

- Ideal for new build and refurbishment projects.
- High compressive strength – exceeds 400 kPa @10% compression.
- Thermal conductivity as low as 0.028 W/m·K.
- Fibre-free core.
- Easy handling and installation.
- Compatible with most living roof systems.
- Non-deleterious material.
- Resistant to passage of water vapour.
- Manufactured to ISO 14001 and ISO 9001.
- Zero ODP, low GWP.

Property	Data
Product thickness	15mm
Board size and density	2400mm x 1200mm (for other board sizes, contact Axter); 50 kg/m ³
Compressive strength	Typically exceeds 300 kPa @ 10% compression (BS EN 826:2013)
Water vapour resistivity	>300 MN·s/g·m
Thermal conductivity	0.028 W/m·K (BS EN 13165:2012)

Resistance

The Hytherm LQ board insulation core is resistant to short-term contact with petrol and with most dilute acids, alkalis and mineral oils. However, it is recommended that any spills be cleaned off fully, using safe methods of cleaning, before the boards are installed. The insulation core is not resistant to some solvent-based adhesive systems, particularly those containing methyl ethyl ketone. Adhesives containing such solvents should not be used with this product. Damaged boards or boards that have been in contact with harsh solvents or acids should not be used.

Fire

Hytherm LQ PIR insulation board is thermosetting, typically resulting in a protective stable char layer when exposed to heat. The char layer acts as a barrier between a fire source and the insulation underneath. When the source of fire is removed the insulation self-extinguishes and does not contribute to fire spread.

Design considerations

Please contact Axter Ltd for design assistance.

Installation

Cutting

Cutting should be carried out by using a fine-toothed saw. Ensure accurate trimming to achieve close-butting joints and continuity of insulation.

Night joints

At the completion of each day's work, or whenever work is interrupted for extended periods of time, a night joint must be made in order to prevent water penetration into the roof construction.

Health and Safety

During installation, do not stand on or otherwise support your weight on this product unless it is fully supported by a load bearing surface.

Hytherm LQ boards are chemically inert and safe to use. Contact Axter for further information.

Packaging and storage

The polyethylene packaging of Hytherm LQ boards, which is recyclable, is not adequate for outdoor protection. Ideally, boards should be stored inside a building. If outside storage cannot be avoided, then the boards should be stacked off the ground and covered with an opaque polythene sheet or weatherproof tarpaulin. Boards that have been allowed to get wet should not be used.

Standards and approvals

Hytherm LQ is manufactured to BS EN ISO 9001, BS EN ISO 14001 and BS OHSAS 18001.

For further information, contact Axter Ltd.

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