



IndiNature®

Fire performance

IndiTherm Natural Fibre Insulation

IndiTherm achieves Euroclass B-s1, d0 reaction to fire classification when used as part of a tested timber frame system with a plasterboard lining in accordance with EN 13823 (Single Burning Item).

Independent fire testing – single burning item

Fire testing was carried out by Warringtonfire, a UKAS-accredited and internationally recognised certification body.

The Single Burning Item (SBI) test (EN 13823) can be used to assess either individual products or full construction systems.

In this case, testing was carried out on a complete build-up to reflect how the product is used in practice.

Additional testing was conducted in accordance with:

- EN ISO 11925-2 – Ignitability (single flame source test)
- Classification to EN 13501-1

Reaction to fire

B

Limited contribution

Smoke emissions

s1

Lowest smoke production

Flaming droplets

d0

None observed

This classification relates to the performance of the complete system as tested, not the insulation material in isolation.

Tested system build-up

The classification is based on a timber frame construction including:

- 12.5mm plasterboard lining with sealed joints
- Vapour control layer
- IndiTherm hemp insulation (friction fit between timber studs)
- Timber framing
- OSB substrate

All components and installation details form part of the tested system and are required to achieve the declared fire performance.



Before testing



During testing



After testing



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In-house fire testing

In addition to accredited third-party fire testing, IndiNature carries out regular in-house fire testing as part of ongoing product development and quality assurance. In accordance with EN ISO 11925-2.

This internal testing programme is used to:

- Assess flame spread behaviour
- Optimise fire-retardant performance
- Verify consistency across production batches

These tests support continuous improvement but do not replace accredited third-party testing, which forms the basis of the declared fire classification.



Regulatory compliance and conditions of use

IndiTherm insulation is approved for use under British Board of Agrément (BBA) certification when installed in accordance with the stated requirements.

To achieve the declared fire performance, the insulation must:

- Be fully enclosed by a fire-resistant lining board manufactured in accordance with BS EN 520
- Have fully sealed joints
- Be installed within suitable timber studs
- Be constructed in line with the tested system build-up

Fire performance depends on correct installation and the use of the full system as tested.

Important information

Fire classification is determined in accordance with EN 13501-1, based on testing to EN 13823 and EN ISO 11925-2.

The classification applies only to the system as tested. Variations in materials, build-up, or installation may affect fire performance.

Like many insulation materials, reaction to fire performance depends on how the product is used within a construction system. When tested on its own, insulation materials may achieve a different classification than when used as part of a complete build-up.