



Non-Itch loft insulation

Non-Itch is a recycled fibre loft insulation that is non-irritant, non-allergenic and quick, clean and easy to install. It is free from floating fibres and has high performance energy saving properties.

Introduction YBS is one of the UK's largest manufacturers and suppliers of insulation products. All products are manufactured in the UK and are CFC- and HCFC-free.

Applications **Non-Itch** is designed for:

- Application between and over joists in ventilated and unventilated lofts under pitched roofs
- Masonry walls as full fill cavity insulation
- Timber framed wall applications between studding with a weather resistant cladding
- Use between rafters for tiled or slated pitched roofs

Authority **Non-Itch** is the subject of BDA Agrément Certificate BPD 07-217 and BPD 07-222 (design) and BPD 07-218 and BPD 07-223 (application) which holds UKAS Certification No. 1145-738.

Patent is under application (Summer 2010).

Green issues **Non-Itch** is manufactured mostly from recycled plastic bottles and is totally recyclable. Every ton of recycled plastic bottles saves 1½ tons of carbon emissions into the atmosphere.

It does not have Global Warming Potential or Ozone Depleting Potential.

DESCRIPTION

Composition, manufacture

Product is 85% manufactured from recycled plastic bottles.

Dimensions

Rolls -

Thickness (mm)	Width (mm)	Length (m)	Area (m ²)
100	370	8	2.96
150	370	5.33	1.97
170	370	4.71	1.74
200	370	4	1.48

Slabs - dimensional details are available from the company's website.

Appearance White

PERFORMANCE

Mechanics

Tensile strength (kPa): 2.4

Fire **Non-Itch** passed fire test BS 5803: Part 4.

Gases Water vapour diffusion resistance factor: 1.51

Liquids **Non-Itch** is unaffected by water; water absorption (kg/m²): short term - 0.78 long term - 1.30

Biological **Non-Itch** is not affected by mould, mildew or rot and is resistant to vermin and insect attack.

Heat

Thermal conductivity (W/mK): 0.0425

U-values: based on the 1st layer of insulation laid between joists and remaining thickness installed as a 2nd layer cross-laid over joists to reduce cold bridging:

Non-Itch thickness (mm)		U-Value (W/m ² K)
1 st layer	2 nd layer	
100	170	0.16
100	200	0.14
150	200	0.12

Thermal resistance:

Thickness (mm)	Thermal resistance (m ² K/W)
100	2.353
150	3.529
170	4.000
200	4.706

Sound **Non-Itch** has excellent sound absorption properties.

Compatibility **Non-Itch** is compatible with common building products.

Durability **Non-Itch** does not deteriorate over time and has a life expectancy of over 50 years.

DESIGN CONSIDERATIONS

Roof structures must have provision in place for preventing condensation. Adequate permanent ventilation should be provided by continuous openings or frequently spaced vents along 2 opposite sides of the roof at eaves level.

Pitched roofs >15°, roofs with spans >10 m and monopitched roofs should be designed in accordance with Clause 9.4 of BS 5250.

Further information and guidance is in BRE Report No. 262.

SUPPLY

All products are available via merchants and distributors.

REFERENCES

Further information on the following products is available in this edition of the RIBA Product Selector:

- GRP decorative and structural mouldings - canopies, bay and porch roofs* Section (31.5)
- GRP decorative and structural mouldings - dormer windows, chimneys* Section (37)
- Roof insulation Section (47)
- Wall insulation Section (21)

* from YBS Composites



Information on the following products is available from the company: **Therma-Close**, **Therma-Bridge** and **Airtec** cavity closers and **Foil-Clad** venting membrane for metal and twin skinned walls.

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