

# NON-ITCH

## CLEANER, GREENER, SAFER INSULATION

PATENT PENDING

WWW.YBSINSULATION.COM

# Timber Frame Insulation Slab



Quick, clean and easy to install

No protective clothing required

Free from floating fibres

Direct equivalent to glass fibre insulation

Totally recyclable

TOTALLY  
**ITCH  
FREE**  
NON-ALLERGENIC  
NON-IRRITANT

Made from approx.  
**85%**  
RECYCLED PLASTIC BOTTLES

## Non-Itch Recycled Fibre Insulation

Non-Itch Insulation is made from user-friendly non-irritant, non-itch material that is free from floating fibres or dust and so avoids skin irritation and respiratory problems normally associated with other forms of insulation. Non-Itch will not deteriorate over time and will not be affected by mould, mildew or rot. Non-Itch is also resistant to vermin and insect attack.

### Other features include:

- Totally safe and easy to install with no protective clothing required.
- Ensures a safe indoor air quality.
- Fully recyclable and uses recycled material in its production.
- Provides good acoustic properties to help keep your home or commercial environment quiet and free from noise pollution.
- Non-Itch is unaffected by water.
- Long term stability and durability 50 years +
- **Every one tonne of plastic bottles recycled for the manufacture of Non-Itch saves one and a half tonnes of carbon emissions into our atmosphere and so has a dramatic positive impact in our efforts to save our planet.**
- Ideal for eco builds

**Zero  
GWP**

**Global  
Warming  
Potential**

**Zero  
ODP**

**Ozone  
Depleting  
potential**

## Insulation between studs

The table below shows the U-values achieved using Non-Itch Timber Frame Insulation slabs placed between the studs.

Non-Itch Timber Frame Insulation Slabs including YBS Breather-Foil FR			
Thickness	Stud Thickness	Thermal Conductivity	U-value W/M <sup>2</sup> K
90 mm	89 mm	0.039 W/mk	<b>0.33</b>
90 mm	89 mm	0.0425 W/mk	<b>0.34</b>
140 mm	140 mm	0.039 W/mk	<b>0.25</b>
140 mm	140 mm	0.0425 W/mk	<b>0.26</b>

Non-Itch Timber Frame Insulation Slabs including standard breather membrane			
Thickness	Stud Thickness	Thermal Conductivity	U-value W/M <sup>2</sup> K
140 mm	140 mm	0.039 W/mk	<b>0.28</b>
140 mm	140 mm	0.0425 W/mk	<b>0.31</b>

Thickness	Width	Length	Area	Slabs per pack	Thermal Conductivity	Thermal Resistance
90 mm	550mm	1.17M	9.01M <sup>2</sup>	14	0.0425 W/mk	2.117M <sup>2</sup> K/W
90 mm	550mm	1.17M	9.01M <sup>2</sup>	14	0.039 W/mk	2.307M <sup>2</sup> K/W
140 mm	550mm	1.17M	6.44M <sup>2</sup>	10	0.0425 W/mk	3.294M <sup>2</sup> K/W
140 mm	550mm	1.17M	5.15M <sup>2</sup>	8	0.039 W/mk	3.589M <sup>2</sup> K/W

Tensile Strength	Water Vapour Diffusion Resistance Factor	Water Absorption	
		Short Term	Long Term
83.3 kPa	1.77	0.88 kg/m <sup>2</sup>	0.96 kg/m <sup>2</sup>

**Fire Test BS 5803-4 = Passed**

## Application

Non-Itch Timber Frame Insulation Slabs are for the thermal insulation of external walls in timber frame construction. Non-Itch Timber Frame Insulation Slabs are fitted between studs.

## Handling and Storage

Non-Itch Timber Frame Insulation Slab is easy to handle with no protective clothing and easy to install, being lightweight and easily cut to size. It is supplied in polythene packaging, designed for short term protection only.

## Distributor

## Test Report No: 0207-L-07

EN 10286: Thermal insulating products for building applications - Determination of water vapour transmission properties (1997-07).

## Test Report No: 0207-L-07

EN 1609: Thermal insulating products for building applications - Determination of short term water absorption by partial immersion, method A (1997-01).

## Test Report No: 0207-L-07

EN 12087: Thermal insulating products for building applications - Determination of long term water absorption by immersion, method 1A (1997-07).

## Test Report No: 0207-L-07

EN1604: Thermal insulating products for building applications - Determination of dimensional stability under specified temperature and humidity conditions (1997-01).

## Test Report No: 0207-L-07

EN 12667: Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter method - Products of high and medium thermal resistance (2001-02).

## Test Report No: 0207-L-07

EN822: Thermal insulating products for building applications - Determination of length and width (1994-11).

## Test Report No: 0207-L-07

EN823: Thermal insulating products for building applications - Determination of thickness(1995-05).

## Test Report No: 0207-L-07

BS 5803-4: Thermal insulation for use in pitched roof spaces in dwellings - Part 4: Methods for determining flammability and resistance to smouldering (1985).

## Environment

Non-Itch does not have Global Warming Potential (GWP) or Ozone Depleting Potential (ODP).



**Global Warming Potential**



**Ozone Depleting potential**

