

IndiTherm®

Healthy, carbon negative and vapour breathable flexible insulation batts made with UK-grown industrial hemp.

- Made with UK grown industrial hemp.
- Healthy and soft to touch for installers.
- Large net negative embodied carbon savings.
- Exceptional vapour transport - keeping buildings dry and healthy. Ideal for traditional retrofits.
- Warm in winter, cool in summer. Indoor temperatures and humidity stay comfortably even because IndiTherm® naturally regulates both.
- Healthy indoor air quality.
- Durability tested under extreme conditions.
- Exceptional rigidity resists slumping.

Storage and handling

Keep dry during storage and delivery. Pallets must not be stacked.

Installation

Refer to installation guide for recommendations. Friction fit between structural framing or against masonry. Best cut with IndiNature insulation saws or powered dual-blade reciprocating saws. Ensure continuous airflow from eaves in rafter installs and 50mm air gaps to sarking. Further details on request.

Environmental impacts

IndiTherm® has a net storage of carbon. It reduces waste because it can be reused at end of life or offcuts can be shredded and made into more of the same product.



Available formats*

Dimensions (mm)	Thicknesses (mm)
370 x 1200	50, 80, 100, 140
440 x 1200	50, 80, 100, 140
570 x 1200	50, 80, 100, 140

*Other sizes may be available on request.

Technical data

Thermal conductivity λ	0.039 W/m.K
Bulk density ρ	45 kg/m ³
Specific heat capacity C	2371 J/(kgK)
Vapour diffusion resistance μ	1.3
Sound reduction	Min 40dB (50mm+)
Reaction to fire	E
Carbon (net negative) incl. biogenic	-0.82 kgCO ₂ eq/kg
Carbon (net negative) insulation only	-0.50 kgCO ₂ eq/kg

IndiBoard®

IndiBoard® is a semi-rigid, multi-purpose thermal insulation board made from industrial hemp.

Breathable and vapour-open, it safely transports excess moisture outwards, helping to keep surrounding materials dry and preserve buildings.

Suitable for use as an internal insulation board, IndiBoard® can be applied in both retrofit projects and new-builds, whether in timber frame or solid masonry.

Storage and handling

Product must be kept dry during storage and delivery.

Installation

Refer to installation guide for recommendations. Best cut with IndiNature insulation saws or powered dual-blade reciprocating saws. Further details on request.

Environmental impacts

IndiBoard® has a net storage of carbon. This is a circular product that can be reused at end of life, shredded and made into more of the same product.



Available formats*

Dimensions (mm)	Thicknesses (mm)
600 x 1200	20, 40, 60, 80, 100, 120, 140

*Other sizes may be available on request.

Technical data

Thermal conductivity λ	0.039 W/m.K
Bulk density ρ	130 kg/m ³
Specific heat capacity C	2202 J/(kgK)
Vapour diffusion resistance μ	≤ 2
Compression strength	65 kPa
Reaction to fire	E

IndiSilence

Acoustic partition roll (APR) and slab insulation from bio-based and recycled natural fibres for quiet, low carbon internal partition walls and floors.

- IndiSilence is designed for fitting with a metal frame or friction fit between timber frame internal partition walls, with excellent rigidity to resist slumping
- Achieving better than Part E acoustic building regulations with minimal material, occupants will enjoy the silence.
- Soft to touch for installers.
- Occupants benefit from comfortable indoor air quality – natural fibres keep temperatures and humidities nice and even.

Storage

Product must be kept dry during storage and delivery. Pallets must not be stacked.



Acoustic partition rolls - metal frame

Available formats*

Dimensions (mm)	Thicknesses (mm)
600 x 10,000	25
600 x 5000	50

*Other sizes may be available on request.

Technical data

Bulk density ρ	25 kg/m ³
Vapour diffusion resistance μ	1.3
Sound reduction	40-42dB
Reaction to fire	E

Acoustic slab - timber frame

Available formats*

Dimensions (mm)	Thicknesses (mm)
600 x 1200	50
570 x 1200	50, 80

*Other sizes may be available on request.

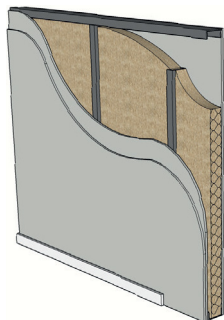
Technical data

Bulk density ρ	30 kg/m ³
Vapour diffusion resistance μ	1.3
Sound reduction	42-51bB
Reaction to fire	E

IndiSilence – Acoustic partition rolls and acoustic insulation slabs

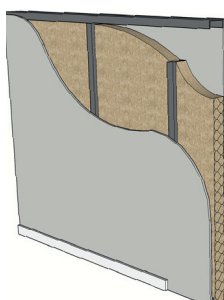
Internal partition walls

Metal frame – Double plasterboard



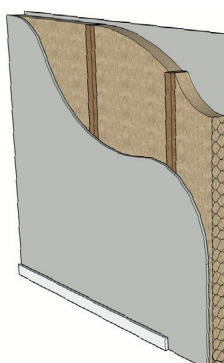
Stud Size	Stud Spacing	Plasterboard	IndiNature Insulation	Insulation Dimensions	Sound Reduction	UKAS Lab Certificate
50mm Metal C Stud	600mm	2 x 12.5 mm standard gyproc wallboard	IndiSilence – Acoustic Partition Roll	25mm (600mm x 10metre)	48dB (Rw)	17353
50mm Metal C Stud	600mm	2 x 12.5mm standard gyproc wallboard	IndiSilence – Acoustic Insulation Slab	50mm (600mm x 1200mm)	51dB (Rw)	17354

Metal frame – Single plasterboard



Stud Size	Stud Spacing	Plasterboard	IndiNature Insulation	Insulation Dimensions	Sound Reduction	UKAS Lab Certificate
50mm Metal C Stud	600mm	12.5 mm standard gyproc wallboard	IndiSilence – Acoustic Partition Roll	25mm (600mm x 10metre)	40dB (Rw)	17351
50mm Metal C Stud	600mm	12.5mm standard gyproc wallboard	IndiSilence – Acoustic Insulation Roll	50mm (600mm x 5metre)	42dB (Rw)	17352
50mm Metal C Stud	600mm	12.5mm standard gyproc wallboard	IndiSilence – Acoustic Insulation Slab	50mm (600mm x 1200mm)	44dB (Rw)	17347

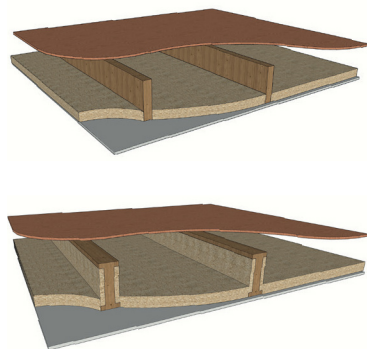
Timber frame – Single plasterboard



Stud Size	Stud Spacing	Plasterboard	IndiNature Insulation	Insulation Dimensions	Sound Reduction	UKAS Lab Certificate
89 x 38mm timber	600mm	12.5 mm standard gyproc wallboard	IndiSilence – Acoustic Insulation Slab	50mm (570mm x 1200mm)	42dB (Rw)	17362
89 x 38mm timber	600mm	12.5mm standard gyproc wallboard	IndiSilence – Acoustic Insulation Slab	80mm (570mm x 1200mm)	45dB (Rw)	17363
89 x 38mm timber	600mm	15mm standard gyproc wallboard	IndiSilence – Acoustic Insulation Slab	50mm (570mm x 1200mm)	44dB (Rw)	17361
89 x 38mm timber	600mm	15mm standard gyproc wallboard	IndiSilence – Acoustic Insulation Slab	80mm (570mm x 1200mm)	46dB (Rw)	17358

IndiSilence – Acoustic partition rolls and acoustic insulation slabs

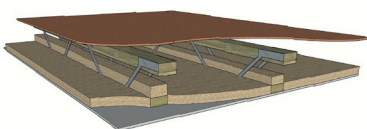
Floor build-ups



Solid timber joists and i-joists

Joist Size	Stud spacing	Plasterboard	IndiNature Insulation	Insulation Thickness	Sound Reduction	UKAS Lab Certificate
Solid: 195mm x 44mm i-joist: 220mm x 90mm flange / 10mm web	450mm	15 mm standard gyproc wallboard	IndiSilence – Acoustic Partition Roll	50mm	42dB (Rw)	17991
Solid 195mm x 44mm i-joist: 220mm x 90mm flange / 10mm web	450mm	15mm standard gyproc wallboard	IndiSilence – Acoustic Insulation Slab	50mm	42dB (Rw)	17990

Acoustic results for solid timber joists can be used for i-joist floors, as the results would be the same or better based on the structure of the engineered timber and meet building regulations.



Posi-joists

Joist Size	Stud spacing	Plasterboard	IndiNature Insulation	Insulation Thickness	Sound Reduction	UKAS Lab Certificate
Posi-joist: 225mm x 97mm	600mm	15mm standard gyproc wallboard	IndiSilence – Acoustic Partition Roll	50mm	47dB (Rw)	17997
Posi-joist: 225mm x 97mm	600mm	15mm standard gyproc wallboard	IndiSilence – Acoustic Insulation Slab	50mm	46dB (Rw)	17994