

## How Thinsulex Silver works

The performance of all Thinsulex products is based on the formula:

$$R \approx d/\lambda + (1-\epsilon)$$

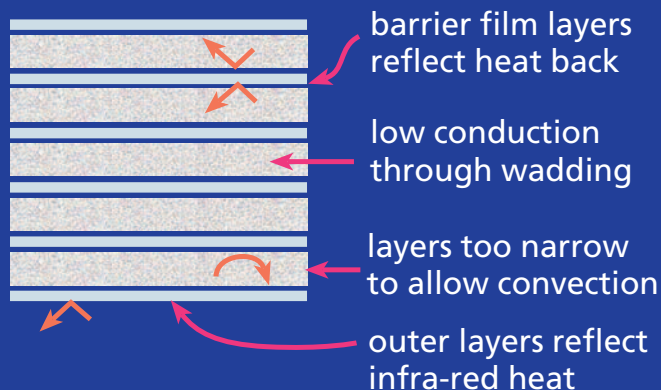
Where:

R is thermal resistance

d is the thickness of the core

$\lambda$  is the thermal conductivity of the core

$\epsilon$  is the emissivity of the outer layers



Thinsulex Silver combines a core air layer with mirrored surfaces that reflect infra-red heat. Web ultra-sonic technology joins materials without stitching which avoids air leakage or moisture contamination.

## Building Control

Thinsulex is the original certified multi-foil. The system is fault tolerant, air and vapour tight cutting CO<sub>2</sub> emissions and saves energy. The product has zero global warming and ozone depletion potential.

With an average home losing 70% of its heat through radiation, you will be glad to hear that Thinsulex Silver reflects more than 80% of radiation, playing a major part in reducing fuel bills and saving energy.

Web Dynamics can provide written guarantees for its U-value calculations.

Thinsulex Silver, the original certified multi-foil, saves time and guarantees 0.2\*. It stops air leakage by providing an air-tight vapour barrier and restricting air movement in its multi-foil layers.

## 10 reasons to use Silver:

- Needs only 120mm of glass wool to achieve 0.2
- Faster to fit than PUR across rafters
- Reflects more than 80% of radiation
- Air and vapour tight – cuts CO<sub>2</sub> emissions
- BBA certified, Part L and qualifies for HIPS, LABC approved, accepted by NHBC
- Tough and lightweight – easy to handle in awkward spaces
- No face mask required – it's clean and hypoallergenic
- Easy to handle, flexible roll – 12m<sup>2</sup> of product can be laid across rafters and stapled into place in one go
- 25 year product guarantee
- Made in the UK. Full technical support and after sales service

\*when installed according to BBA certificate No06/4379

For help and information call the **thermal hotline 01204 674 730** between 8am and 5pm, Monday – Friday

Made in Britain by **Web Dynamics Ltd**  
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# THINSULEX

MULTI-FOIL INSULATION

# Silver



- **Faster to fit than PUR across rafters**
- **Needs only 120mm of glass wool to achieve 0.2**
- **Air and vapour tight above or below rafters**

thermal hotline **01204 674 730**  
for technical advice



The multi-foil system certified to achieve 0.2

# Installing Silver

Thinsulex Silver is a thin, flexible multi-foil which can be used for 100mm and 150mm rafter installations in new build, barn conversion and refurbishment projects including loft extensions (new build in a traditional roof) either over or under rafters.

It works in combination with glass wool to reduce the total thickness of insulation needed and with PUR to cut installation time.



## Optimising internal living space

L1B states that: "Practical considerations with respect to an increase in structural thickness (particularly in terraced dwellings) may necessitate a lower performance target."

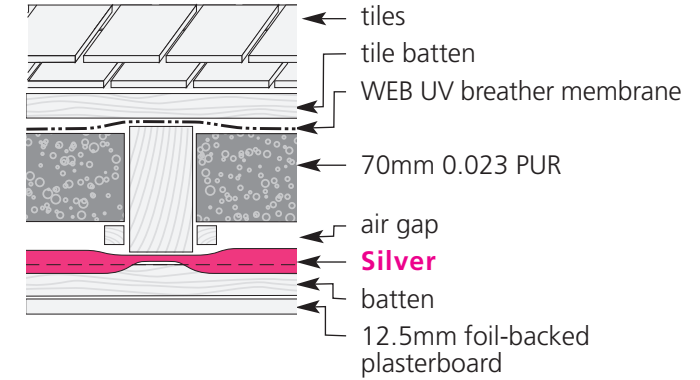
The table below sets out U-values that can be achieved using Thinsulex Silver with different thicknesses of PUR or glass wool.

| PUR 0.023 |         | glass wool 0.032 |         |
|-----------|---------|------------------|---------|
| thickness | U-value | thickness        | U-value |
| 70mm      | 0.20    | 120mm            | 0.20    |
| 60mm      | 0.23    | 100mm            | 0.23    |
| 50mm      | 0.25    | 75mm             | 0.26    |
| 40mm      | 0.28    | 50mm             | 0.32    |

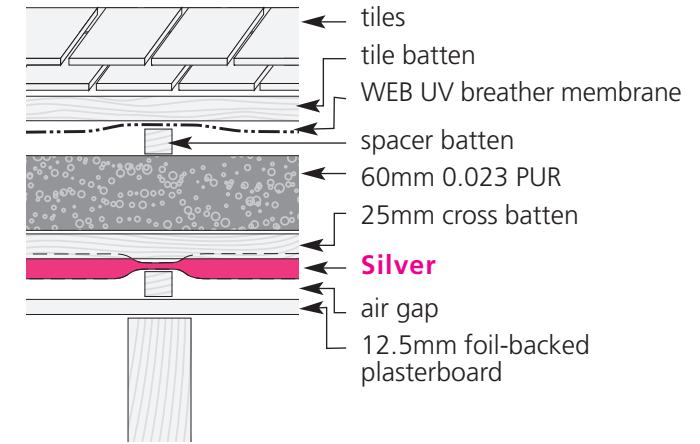
# Silver: 0.2 examples

R-value 1.69m<sup>2</sup>K/W

## Loft conversion: below rafter + PUR



## Barn conversion: fully-exposed rafter + PUR



## Newbuild: above rafter + glass wool

