

YBS Insulation

HIGH QUALITY PRODUCTS FOR THE BUILDING INDUSTRY

CI/SfB (23)



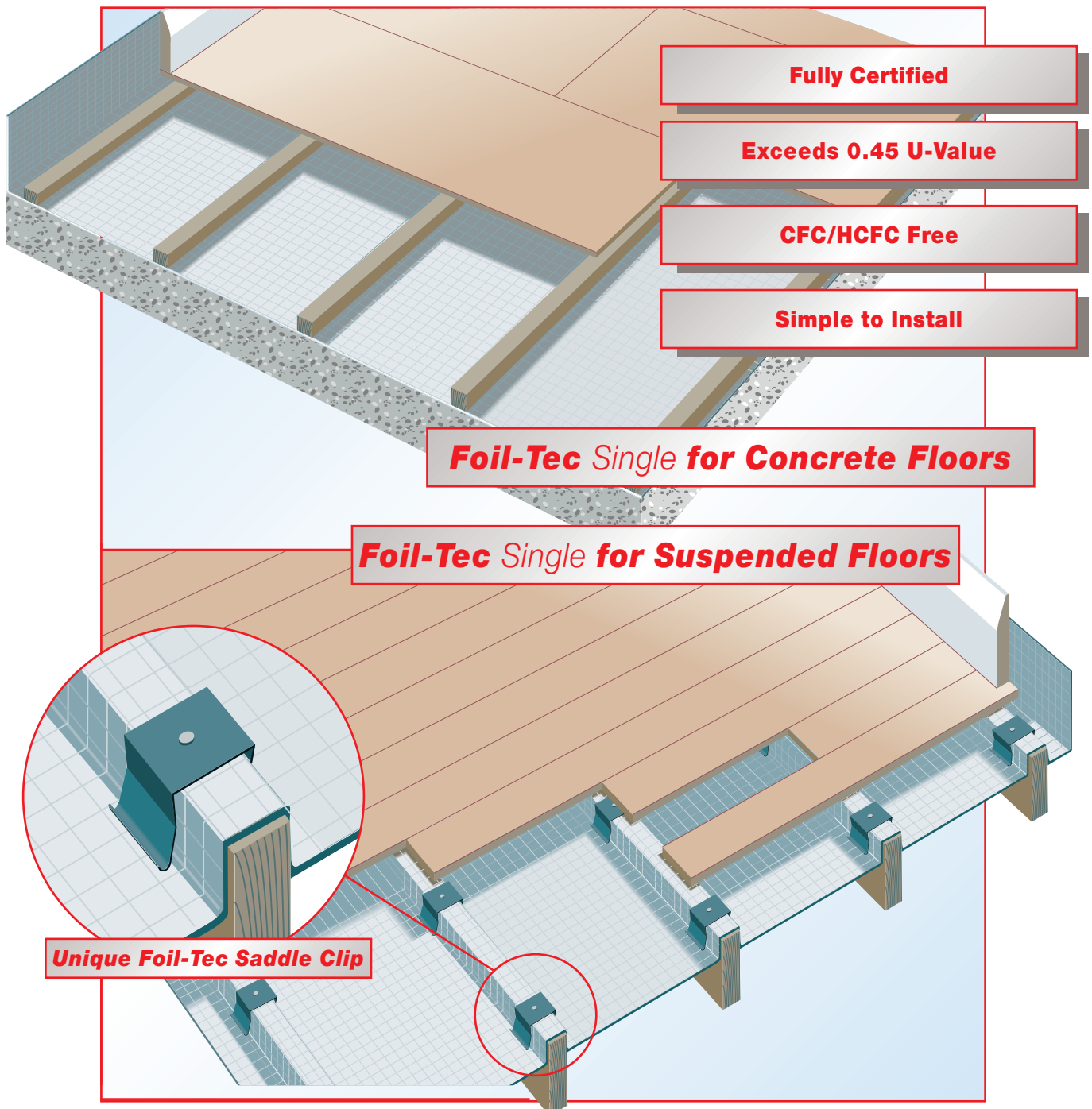
CERTIFICATE NUMBER 107/04

Single Foil-Tec

Manufactured in UK and made to a Quality System meeting the requirements of BS EN ISO 9002



Aluminium Foil Insulation for Suspended and Concrete Floor Applications



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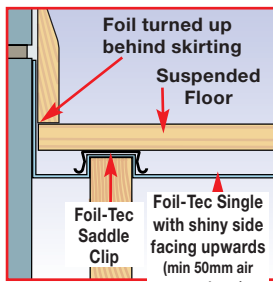
Foil-Tec Single is a multi-layer foil laminate, coated with polyethylene to provide a corrosion resistant insulation system. **Foil-Tec Single** is a high-performance material which acts creating a low emissivity air space below the floor, thus

reflecting the heat back.

Foil-Tec Single can be applied to enhance 'U' values in new build or refurbished building projects to meet and exceed current Building Regulations.

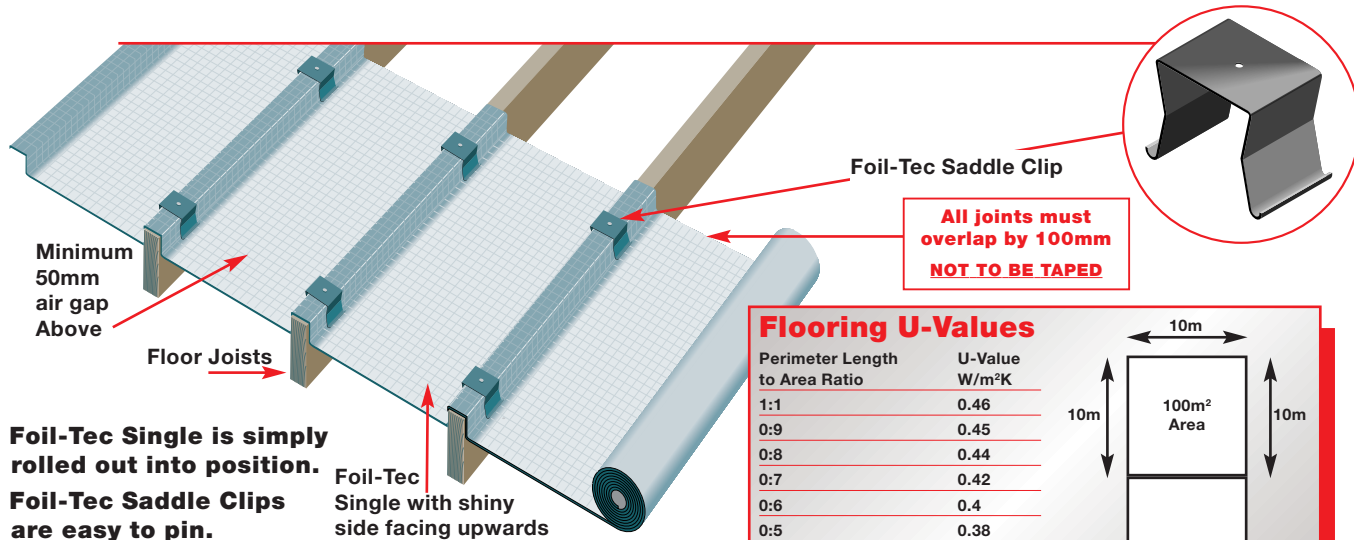
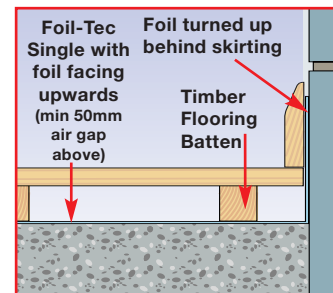
In Suspended Floor Applications

- Foil-Tec Single is rolled out with the shiny side facing upwards, over the joists
- Foil-Tec Single is then nailed in place through the Foil-Tec Saddle Clips to maintain required air gap - 4 per m²
- The horizontal joints are overlapped by 100mm and are left open to allow any moisture accumulation to dissipate
- Foil-Tec Single must be brought up (behind the skirting board) to 75mm
- The decking is then fixed with screws (at 200mm centres) 37mm into the joists



For Concrete Floor Applications

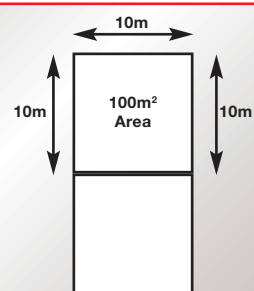
- Foil-Tec Single is rolled out onto concrete floor with shiny side facing upwards - leaving enough edge overlap for 75mm lip to be left behind skirting
- Timber battens/joists (min 50mm x 50mm) are then laid on top of the Foil-Tec Single, spaced at centres to suit the particular flooring.
- The decking is then fixed with screws (at 200mm centres) into battens/joists providing 25mm penetration into the 50mm wide battens/joists



- Foil-Tec Single is simply rolled out into position.
- Foil-Tec Saddle Clips are easy to pin.

Flooring U-Values

Perimeter Length to Area Ratio	U-Value W/m ² K
1:1	0.46
0:9	0.45
0:8	0.44
0:7	0.42
0:6	0.4
0:5	0.38
0:4	0.35
0:3	0.3
0:2	0.26
0:1	0.17



The heat loss in a floor is greater at the exposed perimeter edge of the floor. To calculate the U-Value, the exposed perimeter edge to area ratio needs to be worked out e.g. - a 100m² area, semi-detached house with 3 external walls of 10m each has a perimeter edge to area ratio of 0.3 (i.e. 30m ÷ 100m²=0.3) which, using Foil-Tec Single, gives a U-Value of 0.3 W/m²K.

Foil-Tec Single - Technical Specification

Fire Properties	Foil face meets Class 1
Thermal Resistance at 50mm	1.327 M ² K/W
Environmental	GFC & HCFC Free
Dimensions	
Thickness	less than 1mm
Width	1m, 1.5m
Length	50m roll

For Sales and Technical Support please contact:



For Details of other YBS Products please contact:

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Technical References

- Building Regulations 2000 Approved Document L1, L2 Building Standards Part J.
- BS EN ISO 6946 Thermal Resistance Calculation Downward Heat Flow.
- BRE publication 'Thermal Insulation: Avoiding the risks'.
- BS EN ISO 13370 - Heat Transfer via The Ground Calculation Method.