

**E**uroform Products Ltd



## **Multi-Foil reflective insulation**

- SPACE SAVING
- U-VALUE AS LOW AS 0.16W/m<sup>2</sup>K
- LIGHTWEIGHT
- EASY TO FIX



## Multi-Foil Reflective Insulation

Xfoil™ Range of insulation is designed to achieve the required thermal insulation performances in your roof space, using reflective technology. Based on a Pitch roof application Xfoil™ can give you a \*U-Value as low as 0.16W/m<sup>2</sup>K.



The Xfoil™ Range seals your roof against climactic elements like wind and damp while at the same time retaining ventilation. Using reflective technology Xfoil™ is clean, does not cause allergies, does not cause dust and contains no toxic products.

The Xfoil™ Range is constructed from numerous layers, depending on which Xfoil™ you purchase. Your product will be made up of Insulaid - a reactive thermal product which is one of the best on the market and uses high strength polyester, reinforced metallised polyester film and also polyester wadding. Xfoil™ offers you a sustainable product that insulates your roof and helps with acoustic performances.

*Example on the right shows Xfoil 21 being used in a barn conversion.*

## The Xfoil™ Range

Euroform offer 2 types of Xfoil™ to suit all roof applications to achieve the required insulation performances.

Product Type	Xfoil 21™	Xfoil 25™
Number of layers	7	11
*Thermal efficiency	Equiv. 210mm Glass Fibre	Equiv. 240mm Glass Fibre
Surface area	15m <sup>2</sup>	15m <sup>2</sup>
Weight per roll	10kg	12kg
Roll width	1.5mtr	1.5mtr
Roll length	10mtr	10 mtr
Expanded thickness	35mm	50mm
Compressed thickness	2mm	3mm
*Pitch Roof U-Value Example of Achievement (see calculation on the next page)	0.18 W/m <sup>2</sup> K	0.16 W/m <sup>2</sup> K



## How Does Xfoil 21™ Perform? Please see our U-Value Calculation

**Element:** Pitch roof, ceiling at rafter line - Uvalue Element 2  
**Internal Surface Emissivity:** High **External Surface Emissivity:** High  
**Building Use:** BS5250 dry/moist occupancy

Construction	Thickness mm	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Bridge
Outside surface resistance	–	–	0.040	
Tiling including batten space	50.0	0.120	0.180	
Sarking Felt	2.0	0.200	0.010	
Cavity >24mm, roof	–	–	0.000	
Xfoil 21™	35.0	–	5.250	
Cavity >24mm, roof	–	–	0.000	
Gyproc Duplex Wallboard	12.5	–	0.070	
Thistle Finish Plaster (Multi-Board)	2.0	0.200	0.010	
Inside surface resistance	–	–	0.100	

U-Value - 0.18 W/m<sup>2</sup>K. U-Value, Combined Method:  
 0.18 W/m<sup>2</sup>K (lower limit 5.660 m<sup>2</sup>K/W, upper limit 5.660 m<sup>2</sup>K/W,  
 dUf 0.000, dUg 0.000) (Correction for mechanical fasteners, Delta Uf =  
 0.000 W/m<sup>2</sup>K) (Correction for air gaps, Delta Ug = 0.000 W/m<sup>2</sup>K)

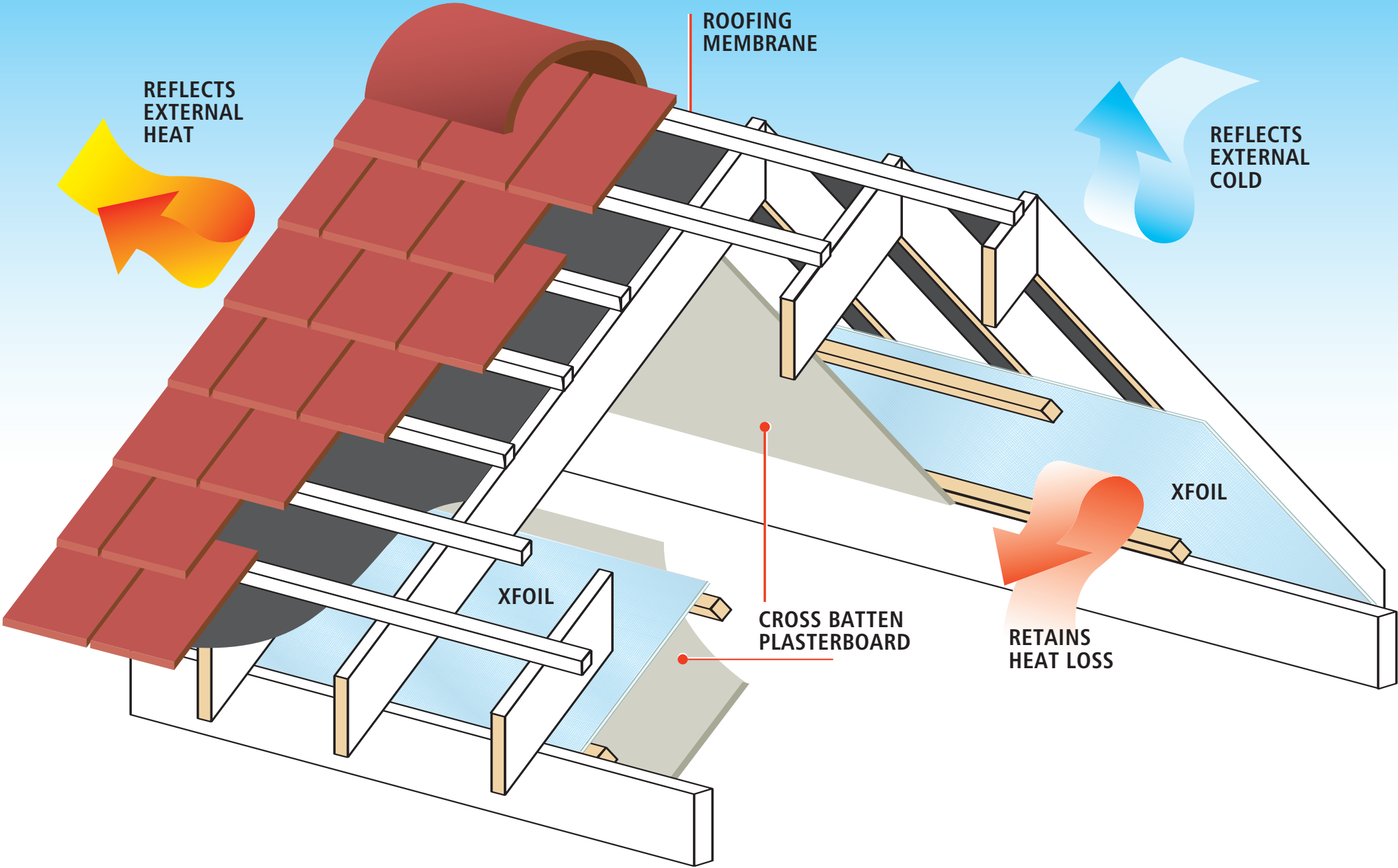
## How Does Xfoil 25™ Perform? Please see our U-Value Calculation

**Element:** Pitch roof, ceiling at rafter line - Uvalue Element 1  
**Internal Surface Emissivity:** High **External Surface Emissivity:** High  
**Building Use:** BS5250 dry/moist occupancy

Construction	Thickness mm	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Bridge
Outside surface resistance	–	–	0.040	
Tiling including batten space	50.0	0.120	0.180	
Sarking Felt	2.0	0.200	0.010	
Cavity >24mm, roof	–	–	0.000	
Xfoil 25™	50.0	–	6.000	
Cavity >24mm, roof	–	–	0.000	
Gyproc Duplex Wallboard	12.5	–	0.070	
Thistle Finish Plaster (Multi-Board)	2.0	0.200	0.010	
Inside surface resistance	–	–	0.100	

U-Value - 0.16 W/m<sup>2</sup>K. U-Value, Combined Method:  
 0.16 W/m<sup>2</sup>K (lower limit 6.410 m<sup>2</sup>K/W, upper limit 6.410 m<sup>2</sup>K/W, dUf 0.000,  
 dUg 0.000) (Correction for mechanical fasteners, Delta Uf =  
 0.000 W/m<sup>2</sup>K) (Correction for air gaps, Delta Ug = 0.000 W/m<sup>2</sup>K)

# TYPICAL CONSTRUCTION



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- Versapanel<sup>®</sup>**
- Versafire<sup>®</sup>**
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- Ufoil<sup>™</sup>**
- Xfoil<sup>™</sup> Multi-Foil**
- Versachimney<sup>™</sup> Reflective Insulation**
- Versalayer<sup>™</sup>**
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- Versafloor<sup>™</sup>**
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