



Ufoil™

Polyethylene Foil Bubble Insulation BRE & NHBC Approved

Ufoil™ insulation is a range of insulation materials which are constructed using polyethylene bubble which has aluminium to either one face or two faces, for use in roof, walls and floor applications.

There is also a choice of two types of bubble - single bubble or double:

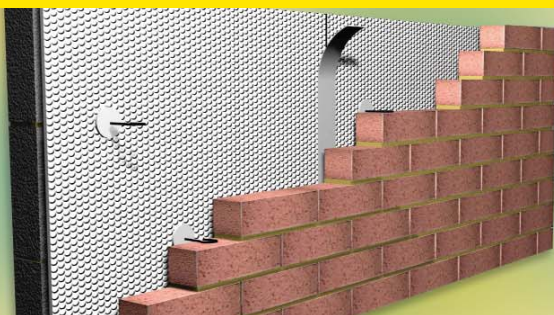
- **1BD/A foil** to both sides - with one layer of polyethylene bubble
- **1BD/A-1 foil** to one side - with one layer of polyethylene bubble.
- BRE Certified NHBC approved
- Water Vapour Resistance
- Suitability of Wall Ties
- Thermal Resistance
- Durability
- Condensation Risk Analysis
- Boost U-Values to 0.35 or better
- Provides secondary rain screen protection
- Improves air pressure rating
- Fire retardant grades available

Available in two specifications - Class '1' Surface Spread of Flame and Class 'O' to Building Regulations.

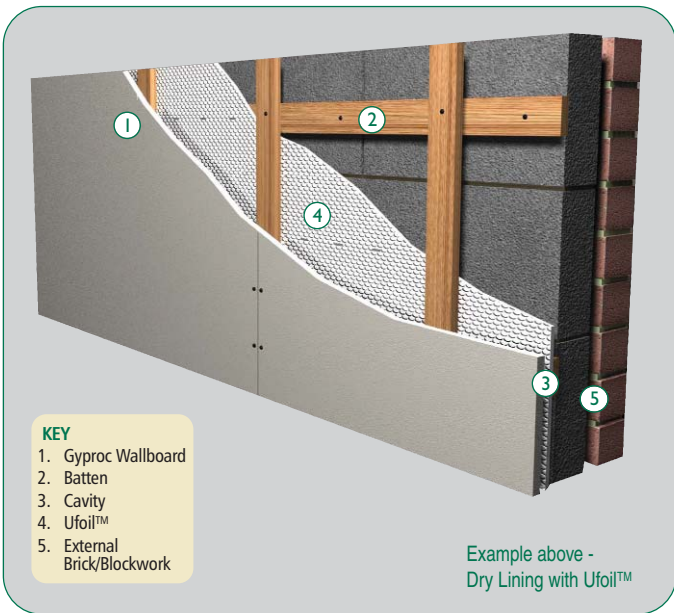
Ufoil™ insulation works on the principles of reflecting upto 95% radiant heat. Ufoil™ thermal performance is unaffected by moisture and condensation.



CERTIFICATE No. 147/08



Euroform Products Ltd
Solutions for the building industry



Technical Specification

	Single Foil	Double Foil
Description	Foil to one side	Foil to both sides
Corrosion resistant coated, low emissivity aluminium foil backed by a multi-layer air bubble film.		
Dimensions: Thickness	4mm	4mm
Weight nominal	206gsm	263gsm
Roll size	1.05, 1.2, 1.5 x 25/50m	1.05, 1.2, 1.5 x 25/50m
Roll weights nominal	5.5, 6.25, 7.75kgs - 25m 11, 12.5, 15.5kgs - 50m	7, 8, 10kgs - 25m 14, 16, 20kgs - 50m
Performance		
Thermal performance with 20mm clear cavity to foil faces	0.79 m ² K/w	1.455m ² K/w
Water Vapour resistance	>150 MNS/g	>150 MNS/g
Fir Properties BS476 Part 1	Class 1	Class 1
Also available with self extinguishing film	Single FR	Double FR

Fixing Information

WALL TIES

A range of cavity wall ties have been developed for use with bubble/foil insulation. This range consists of two designs with special ends to pierce the insulation material. Plastic retaining clips are also supplied to hold the insulation in place after fixing.

Wall ties enable the insulation to be installed flush to the blockwork. Ties position the insulation 25mm away from the face of the block. A range of ties are available in three different lengths to suit cavities from 60mm to 100mm.

All ties have a safety feature to the ends to reduce the risk of injury during handling and installation. They are manufactured from stainless steel and are corrosion resistant and feature multiple drips to ensure at least one drip is located in the cavity.

TAPE & JOINTING

Horizontal joints are weather lapped but all vertical joints are to be lapped and taped with aluminium adhesive tape ref. RA 1010 or RA 1313.

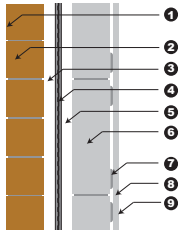
Other Uses

Ufoil insulation can also be used in many other applications i.e. roofs and floors to boost overall thermal performance.

Please contact EUROFORM for further information.

Typical U-Value Calculations

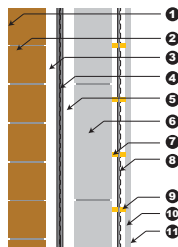
U Value to 0.35



	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² K/W)
1. Outside Surface Resistance	-	-	0.040
2. Brick (external)	102.50	0.770	0.133
	bridged by 17.2% Mortar (102.5mm)		
3. Cavity	-	-	0.665
4. Ufoil™ Double Sided	4.00	-	0.125
5. Cavity	-	-	0.665
6. AAC TYPE BLOCK	125.00	0.110	1.136
	bridged by 6.7% Mortar (125.0mm)		
7. Plaster Dabs	15.00	-	0.170
8. Plasterboard	12.50	0.190	0.066
9. Inside Surface Resistance	-	-	0.130

U-value Combined Method: 0.35W/m²K

U Value below 0.27



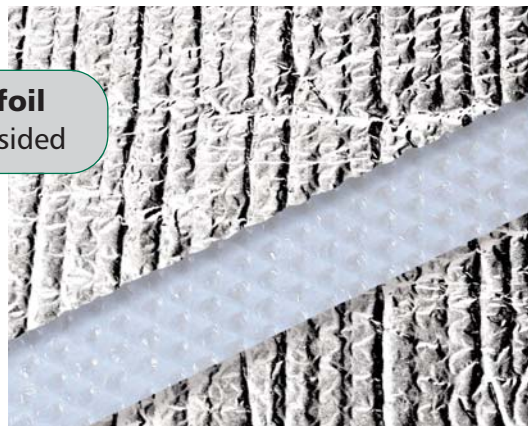
	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m ² K/W)
1. Outside Surface Resistance	-	-	0.040
2. Brick (external)	102.50	0.770	0.133
	bridged by 17.2% Mortar (102.5mm)		
3. Cavity	-	-	0.665
4. Ufoil™ Double Sided	4.00	-	0.125
5. Cavity	-	-	0.665
6. AAC BLOCK	100.00	0.110	0.909
	bridged by 6.7% Mortar (100.0mm)		
7. Battens	25.00	0.038	0.665
	bridged by 8.3% Timber (25.0mm)		
8. Ufoil™ Double Sided	4.00	-	0.125
9. Battens	25.00	0.038	0.665
	bridged by 8.3% Timber (25.0mm)		
10. Plasterboard	12.50	0.190	0.066
11. Inside Surface Resistance	-	-	0.130

U-value Combined Method: 0.26W/m²K

• 1BD/A-1 foil single sided



• 1BD/A foil double sided



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