

**Project Information**

Date 27 March 2012  
Client Grahame White, OWLarchitecture.com Project Kippax  
62 The Fairway Butt Hill  
Leeds Kippax  
West Yorkshire  
LS17 7PD

**Construction Type**

Element : Wall – Solid Wall – Internal Insulation – Internal Dry Lining – Solid Brickwork  
Internal surface emissivity : High External surface emissivity : High

<b>Construction</b>	Thickness (mm)	Thermal Conductivity (W/mK)	Thermal Resistance (m <sup>2</sup> K/W)	Pitch (°)	Bridge Details
Outside surface resistance	–	–	0.040		
Brickwork	215.0	0.770	0.279		17.2% Mortar (215.0mm)
Celotex GA4000 joints taped as VCL	55.0	–	2.500		
Cavity (low emissivity) 25 x 50 battens @ 600 ctrs	25.0	–	0.665		8.3% Timber (25.0mm)
Knauf Wallboard	12.5	0.156	0.080		
Inside surface resistance	–	–	0.130		

**U-value – 0.28W/m<sup>2</sup>K**

U-value, Combined Method : 0.28 W/m<sup>2</sup>K (upper/lower limit 3.648 / 3.579 m<sup>2</sup>K/W, dUf 0.0000, dUg 0.0000, dUp0.0000, dUr0.0000, dUrc0.0000)

(Correction for mechanical fasteners, Delta Uf = 0.000W/m<sup>2</sup>K)

(Correction for air gaps, Delta Ug = 0.000W/m<sup>2</sup>K)

(Based on the combined method for determining U-values of structures containing repeating thermal bridges.)