

## Project Information

Client : Grahame White, OWLarchitecture.com

Date : 22 February 2021

Address : 25 Crescent View, Leeds, LS17 7QF

Project : loft, west Yoks

**Construction Type :** Ceilings > Insulation all between joists

	Thickness (m)	Thermal conductivity (W/mK)	Thermal resistance (m <sup>2</sup> K/W)	Bridge details air gaps
Outside surface resistance	0.0000	0.0000	0.0400	—
Tiling including batten space	—	—	—	—
Loft space	—	—	0.2000	—
Insulation between joists <i>Celotex XR4000 200.0mm</i>	0.2000	0.0220	9.0909	0.8820
Timber with joist spacing	0.2000	0.1300	1.5385	0.1180
VCL & Air leakage barrier	—	—	—	—
12.5mm Gyproc Wallboard	0.0125	0.1900	0.0658	—
Inside surface resistance	0.0000	0.0000	0.1000	—

**U-value = 0.17 W/m<sup>2</sup>K** (combined method : 0.167 W/m<sup>2</sup>K, upper limit : 6.512m<sup>2</sup>K/W, lower limit : 6.162m<sup>2</sup>K/W)

## Correction Factors

**Mechanical Fasteners : N/A**

**Air Gap Corrections : Delta Ug = 0.0092 W/m<sup>2</sup>K**

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