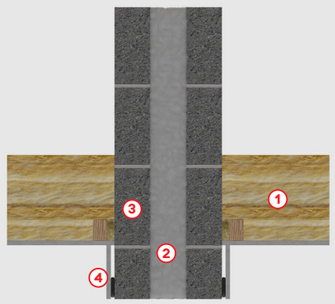
P04 - Party Wall/Roof (insulation at ceiling level)

Superglass Superwhite 34 Blown Cavity Insulation

Date of Issue: September 2026

	Party Wall Build-up	
	Thickness (mm)	**Thermal Conductivity (W/mK)**
Standard Plasterboard	12.5	0.019
Plaster Dabs	15	0.088
Blockwork	100	Shown in tables below
Superwhite 34 Blown Cavity Insulation	Shown in tables below	
Blockwork	100	Shown in tables below
Plaster Dabs	15	0.088
Standard Plasterboard	12.5	0.019

	Ceiling Build-up	
	Thickness (mm)	**Thermal Conductivity (W/mK)**
Superglass Multi-Roll 44 cross-laid over timber joists	300 (2x150)	0.044
Superglass Multi-Roll 44 between timber joists	100	0.044
Standard Plasterboard	15	0.019



1. 400mm of Superglass Multi-Roll 44
2. Superglass Superwhite 34 Blown
3. 100mm Blockwork
4. 12.5mm Standard Plasterboard

Images for illustration purposes only.

Linear Thermal Transmittance (Ψ-value) and Temperature Factor (f-value) calculated for a range of block types and insulation thicknesses.
Ψ – values shown below are applicable to each dwelling on either side of the party wall.

Superwhite 34 Blown Cavity Insulation - 0.034W/mK							
	Insulation & Cavity Thickness	**100mm**		**125mm**		**150mm**	
Block Type	**Thermal Conductivity (W/mK)**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**
Lightweight Aircrete	0.11	0.034	0.958	0.033	0.959	0.033	0.958
Standard Aircrete	0.15	0.041	0.953	0.039	0.954	0.040	0.953
High Strength Aircrete	0.19	0.048	0.948	0.046	0.950	0.046	0.949
Ultra Lightweight Aggregate	0.28	0.063	0.940	0.060	0.942	0.060	0.941
Medium Dense	0.45	0.088	0.928	0.085	0.930	0.085	0.929
Dense Concrete	1.13	0.177	0.899	0.171	0.900	0.170	0.900

The results have been generated using AutoPsi Thermal Modelling Tool. The calculations have been completed using the methodology outlined in BS EN ISO 10211 and in accordance with BR497 2nd Edition.

Any deviation from the details used as part of this calculation will result in the calculation being inaccurate. To request a copy of a calculation or a different build-up please email technical.stirling@etexgroup.com