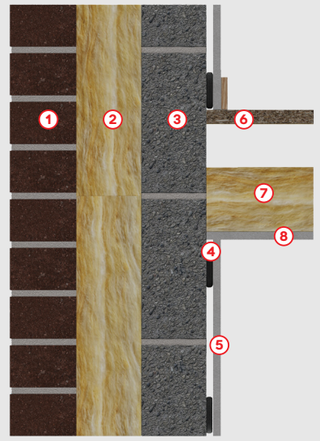
E06 – Intermediate Floor within a dwelling

Superglass Superwall 34 Cavity Batt

Date of Issue: September 2026

	Wall Build-up	
	Thickness (mm)	**Thermal Conductivity (W/mK)**
Outer Leaf Brickwork	102.5	0.77
Superglass Superwall 34 Cavity Batt	Shown in tables below	
Inner Leaf Blockwork	100	Shown in tables below
Plaster Dabs	15	0.088
Standard Plasterboard	12.5	0.19

	Intermediate Floor Build-up	
	Thickness (mm)	**Thermal Conductivity (W/mK)**
Chipboard Flooring	22	0.13
Superglass Multi Acoustic Roll	100	0.044
Standard Plasterboard	15	0.19



1. 102.5mm Outer Leaf Brickwork
2. Superglass Superwall 34 Cavity Batt
3. 100mm Inner Leaf Blockwork
4. 15mm Plaster Dabs
5. 12.5mm Standard Plasterboard
6. 22mm Chipboard Flooring
7. 100mm Superglass Multi Acoustic Roll
8. 15mm 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.

Superwall 34 – 0.034W/mK											
	Insulation & Cavity Thickness	**100mm**		**125mm**		**150mm**		**175mm (100+75mm)**		**200mm (2x100mm)**	
Block Type	**Thermal Conductivity (W/mK)**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**	**Ψ-value (W/mK)**	**f-value**
Lightweight Aircrete	0.11	-0.004	0.958	-0.003	0.954	-0.002	0.969	-0.002	0.973	-0.001	0.966
Standard Aircrete	0.15	-0.004	0.956	-0.003	0.953	-0.002	0.968	-0.002	0.972	-0.001	0.965
High Strength Aircrete	0.19	-0.004	0.955	-0.003	0.952	-0.002	0.968	-0.002	0.972	-0.001	0.965
Ultra Lightweight Aggregate	0.28	-0.004	0.954	-0.003	0.951	-0.002	0.967	-0.002	0.971	-0.001	0.965
Medium Dense	0.45	-0.004	0.952	-0.003	0.951	-0.002	0.966	-0.001	0.970	-0.001	0.965
Dense Concrete	1.13	-0.003	0.951	-0.003	0.952	-0.002	0.965	-0.001	0.970	-0.001	0.966

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