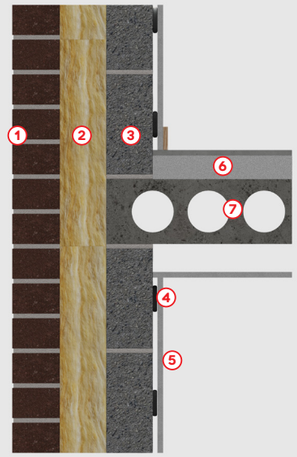
E07 - Separating Floor

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

	Floor Build-up	
	Thickness (mm)	**Thermal Conductivity (W/mK)**
Concrete Screed	50	1.15
Concrete Floor Beam	150	1.70
Ceiling Void	115	0.21
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. 50mm Concrete Screed
7. 150mm Concrete Floor Beam

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 separating floor.

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	0.044	0.957	0.037	0.962	0.032	0.969	0.028	0.973	0.025	0.974
Standard Aircrete	0.15	0.045	0.956	0.037	0.961	0.032	0.968	0.028	0.972	0.025	0.974
High Strength Aircrete	0.19	0.045	0.955	0.038	0.960	0.032	0.967	0.028	0.972	0.025	0.973
Ultra Lightweight Aggregate	0.28	0.046	0.953	0.038	0.959	0.032	0.967	0.028	0.971	0.025	0.973
Medium Dense	0.45	0.047	0.951	0.038	0.958	0.033	0.965	0.028	0.970	0.025	0.972
Dense Concrete	1.13	0.047	0.948	0.039	0.955	0.033	0.963	0.029	0.968	0.025	0.970

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