

U-VALUE CALCULATOR REPORT

Property Reference	Isotex blocks		Issued on Date	19/12/2024
Assessment Reference		Prop Type Ref		
Project				
Calculation Type	New Build (As Built)			
SAP Rating		DER		TER
Environmental		% DER<TER		
CO ₂ Emissions (t/year)		DFEE		TFEE
General Requirements Compliance		% DFEE<TFEE		
Assessor Details	Mr. Sam Townsend, Sam Townsend, Tel: 0114 230 2812, stownsend@energy-test.co.uk			Assessor ID
				R584-0001
Client				

Building Elements

Wall Isotex Block Wall

Wall Type: Standard Wall

Layer	Description	Thickness (mm)	Conductivity (W/m ² K)	Resistance (m ² K/W)	Fraction (%)
Ext surface				0.0400	
Layer 1	External Render				
	Main construction	15	0.9000	0.0167	100.00
Layer 2	Wood-Cement				
	Main construction	45	0.1040	0.4327	100.00
Layer 3	Graphite EPS				
	Main construction	170	0.0310	5.4839	100.00
	Corrections - Air Gap: Level 0, Fasteners: None or plastic				
Layer 4	Concrete, reinforced (1% steel)				
	Main construction	120	1.9100	0.0628	100.00
Layer 5	Wood-Cement				
	Main construction	45	0.1040	0.4327	100.00
Layer 6	airspace/plaster dabs				
	Main construction	15	0.0882	0.1700	80.00
	Main construction	15	0.0882	0.1700	20.00
	Corrections - Cavity Unventilated, Emissivity: Normal				
Layer 7	Plasterboard, standard				
	Main construction	12.5	0.2100	0.0595	100.00
Int surface				0.1300	

Total resistance: **Upper limit** = 6.828 m² K/W **Lower limit** = 6.828 m² K/W **Average** = 6.828 m² K/W
 Total correction = 0.0000 m² K/W **U-value (unrounded)** = 0.15 W/m² K

Unheated space: None

Total thickness: 423 mm

U-value: 0.15 W/m² K

Kappa: n/a