U-Value Measurement Report

HEAT3D

The Conference Centre Church House Deans Yard London SW1P 3NZ	U-Value Rating **Average**	Measured U-Value **0.72** W/m²K
Report Date **29 January 2026**	Unique Reference **F1BF3289-D891-4510-83CA-EE16CD0C4D89**	

Measurement Date	29 January 2026	**Measurement Method**	Heat3D
Measurement Reference	Church House (post-application)		
Room Type	Office	**Floor Area**	-
Element Type	Wall	**Ceiling Height**	2.83 m
Wall Age Band	A (before 1900)	**Design U-Value**	-
Wall Construction	Solid brick	**SAP Assumed U-Value**	1.70 W/m²K
Additional Insulation	None		
Mobile Device	Apple iPhone	**Heat3D Survey Type**	Timelapse
Thermal Camera	FLIR ONE Pro (gen 3)	**Wall Time Constant**	6 hrs

Measured Result

U-Value

The rate of heat loss per degree temperature difference between inside and out.

Mean U-Value	0.72	W/m²K
Uncertainty	± 0.08	W/m²K

Heat Flux

The rate of heat transfer per square metre area of building element.

Mean Heat Flux	12.74	W/m²
Uncertainty	± 1.22	W/m²

Performance Gap

⬇ **57** % Better than SAP assumed U-value

U-Value Performance Scale (Lower value equals less heat loss)	Measured (W/m²K)
< 0.2 Excellent	
< 0.6 Good	
< 1.0 Average	0.72
1.0+ Poor	

Measurement Period

Start Time	29 January 2026 - 15:07
End Time	29 January 2026 - 15:52
Duration	45 mins
Logging Interval	1 min

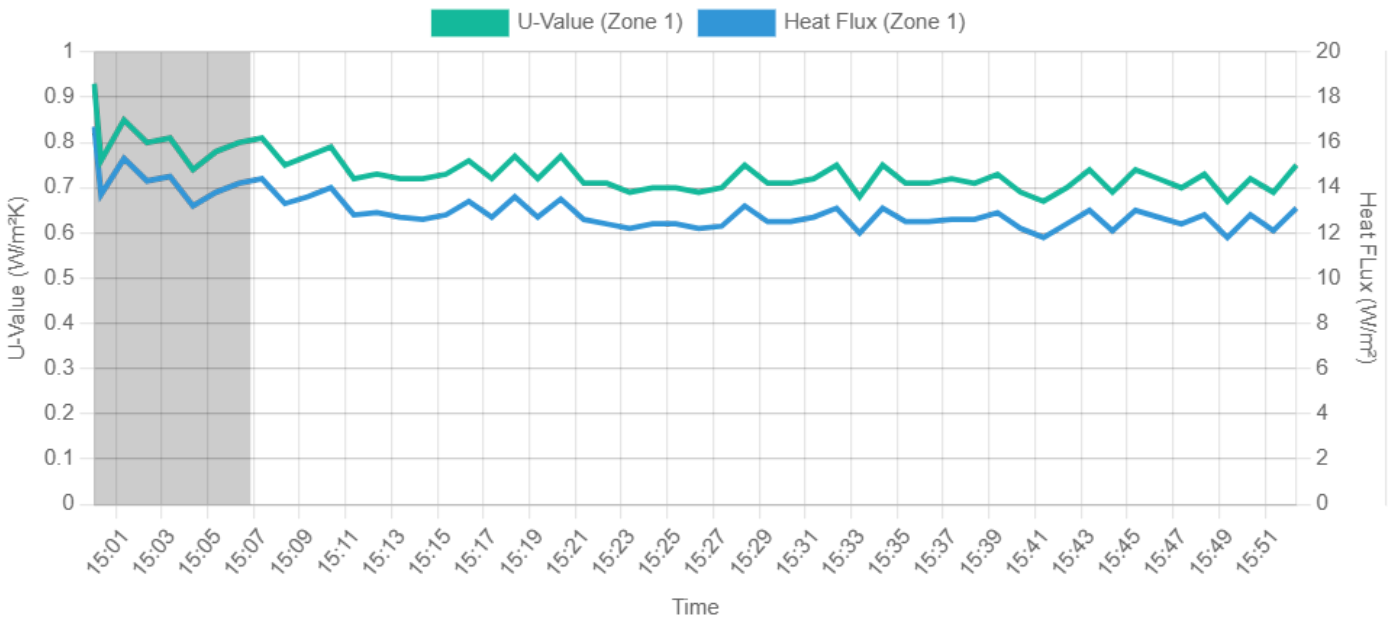
Mean Temperature Metrics

Internal Surface Temperature	19.2 °C
Internal Air Temperature	20.9 °C
External Air Temperature	6.9 °C
Temperature Difference	14.0 °C

Survey Notes

None

Measurement Chart



Measurement Performed By

Name	Rob Shawdale
Job Title	-
Company	**CORKSOL UK LTD**
	Unit 1d Holdsworth Road, Halifax, HX3 6FD

All times are displayed in: GMT Standard Time (UTC)
App software version: 4.0.11 (build 50)

Heat3D is an innovative mobile app that allows you to precisely measure heat flow and U-values of building elements using a low-cost, quick and non-invasive method. It can be used to detect heat flow rates, thermal bridging, poorly performing structures as well as assessing existing levels of insulation.

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