

Build Test Solutions Ltd Unit A Building 8 The Old Depot, Bridge Street, Weedon Northampton NN7 4PS		Mean U-Value <b>1.54</b> W/m²K	Mean Heat Flux <b>24.97</b> W/m²
Report Date <b>21 May 2025</b>	Unique Reference <b>62B8A5BD-E582-4F77-A04C-9EB2323337B1</b>		

Measurement Date	04 December 2024	Measurement Method	Heat3D
Measurement Reference	12/4/2024 11:49:48 AM		

Room Type	Office	Floor Area	-
Element Type	Wall	Ceiling Height	2.42 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 iPad	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

1.54

W/m²K

Uncertainty

± 8

%

Rating

Poor

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

Mean Heat Flux

24.97

W/m²

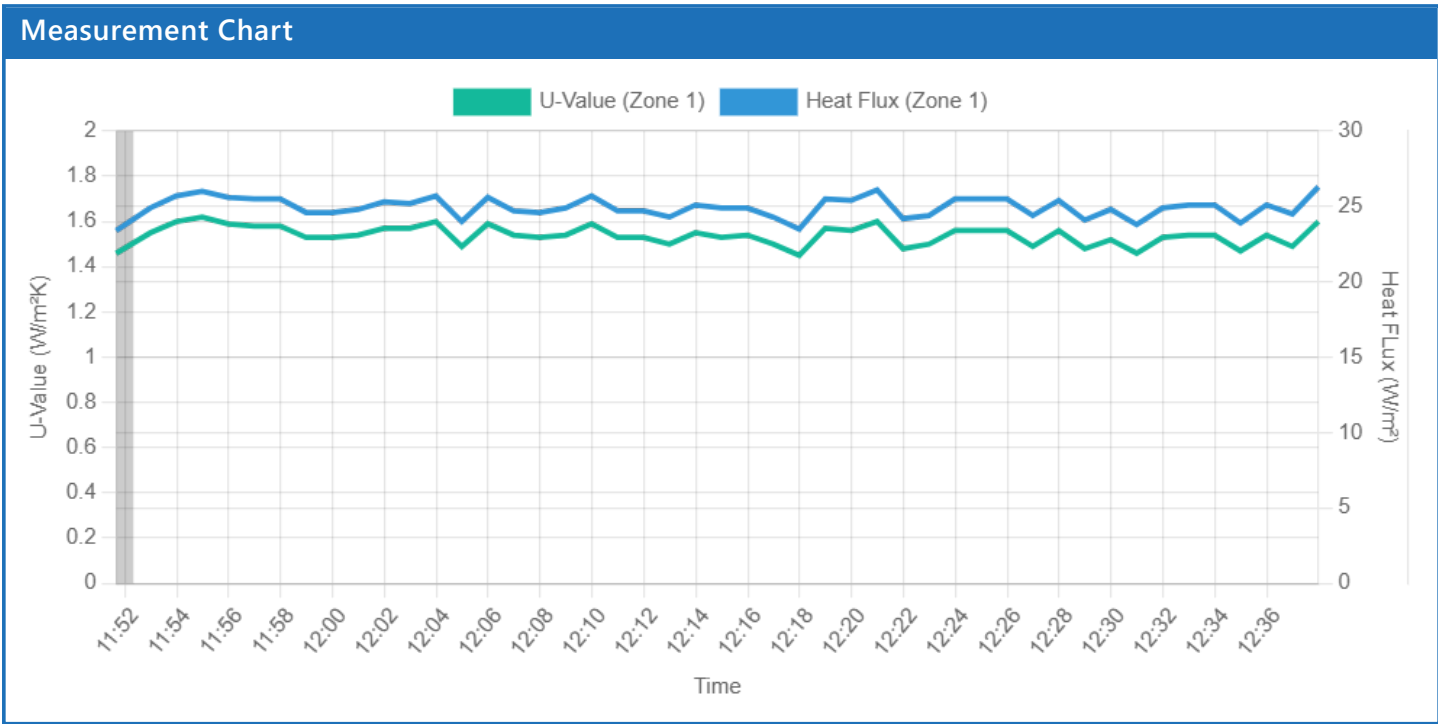
Performance Gap

↓ 9 %

Better than SAP assumed U-value

U-Value Performance Scale (Lower value equals less heat loss)		Result (W/m²K)
< 0.2	Excellent	<div>1.5</div>
< 0.6	Good	
< 1.0	Average	
1.0+	Poor	

Measurement Period		Mean Temperature Metrics	
Start Time	04 December 2024 - 11:52	Internal Surface Temperature	15.7 °C
End Time	04 December 2024 - 12:37	Internal Air Temperature	19.0 °C
Duration	45 mins	External Air Temperature	5.8 °C
Logging Interval	1 min	Temperature Difference	13.2 °C



Measurement Performed By	
Name	Richard Jack
Job Title	-
Company	Build Test Solutions
	Building 8, The Royal Ordnance Depot, Weedon Bec, NN7 4PS

All times are displayed in: GMT Standard Time (UTC)

App software version: 4.0.9 (build 44)

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.



For more information, please visit [www.buildtestsolutions.com](http://www.buildtestsolutions.com).