

# Heat Loss Estimator Report

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# Property Details

Property type and project information

## Property Type

Type of property:

Domestic

Has extension:

Yes

## Project Details

Project Reference  
10 Hermitage Road

Customer Name

Engineer

Date  
20/05/2026

## Site Address

Address: 10 Hermitage Road

Post Code: N4 1DB

*This report's heat-loss calculations rely on information supplied by either the customer or the surveyor/engineer.*

# Main Building

Construction specifications and thermal properties

## Building Details

U Value Roof Skylights (W/m <sup>2</sup> K):	0.00
U Value Roof (W/m <sup>2</sup> K):	0.18
What is above Roof?:	Air
U Value Windows (W/m <sup>2</sup> K):	2.80
U Value External Walls (W/m <sup>2</sup> K):	1.64
U Value External Doors (W/m <sup>2</sup> K):	3.50
Floor Type:	Solid
U Value Floor (W/m <sup>2</sup> K):	0.43

## Dwelling Openings

Glazing to Wall Ratio (%):	20.00
No of Roof Lights:	0.00
No of External Doors:	1.00

## Other Dwelling Info

Average Indoor Temperature (°C):	21.00
Average Ground Floor Area (m <sup>2</sup> ):	40.00
No of Floors:	3.00
Total Floor Area (m <sup>2</sup> ):	120.00
Average Storey Height (m):	2.40
Dwelling Volume (m <sup>3</sup> ):	288.00
Property Type:	Detached

*U-values represent the thermal transmittance of building elements. Lower values indicate better insulation performance.*

# Extension

Construction specifications and thermal properties

## Building Details

U Value Roof Skylights (W/m <sup>2</sup> K):	2.00
U Value Roof (W/m <sup>2</sup> K):	0.18
What is above Roof?:	Air
U Value Windows (W/m <sup>2</sup> K):	2.10
U Value External Walls (W/m <sup>2</sup> K):	0.24
U Value External Doors (W/m <sup>2</sup> K):	1.60
Floor Type:	Suspended
U Value Floor (W/m <sup>2</sup> K):	0.32

## Dwelling Openings

Glazing to Wall Ratio (%):	15.00
No of Roof Lights:	0.00
No of External Doors:	2.00

## Other Dwelling Info

Average Indoor Temperature (°C):	21.00
Average Ground Floor Area (m <sup>2</sup> ):	40.00
No of Floors:	1.00
Total Floor Area (m <sup>2</sup> ):	40.00
Average Storey Height (m):	2.80
Dwelling Volume (m <sup>3</sup> ):	112.00
Property Type:	Detached

*U-values represent the thermal transmittance of building elements. Lower values indicate better insulation performance.*

# Estimator Results

Overview of heat loss and energy demand calculations

## Total Heat Loss

Total  
**12.37 kW**

Main Building  
**10.33 kW**

Extension  
**2.04 kW**

## Heat Loss per m<sup>2</sup>

Average  
**77 W/m<sup>2</sup>**

Main Building  
**86 W/m<sup>2</sup>**

Extension  
**51 W/m<sup>2</sup>**

## Energy Demand

Total  
**31,277 kWh**

Heating  
**29,336 kWh**

Hot Water  
**1,941 kWh**

## Daily Hot Water Demand

Volume demand, average

**270 L/day**

# Final Parameters

Key calculation parameters and domestic hot water specifications

## Building Parameters

Total Floor Area (m <sup>2</sup> ):	160.00
Height above sea level (m):	25.41
Adjustment for Altitude(°C):	0.0
Outdoor Temperature(°C):	-1.7
Dwelling in an Exposed Location:	No
Indoor - Outdoor delta T:	22.7
Degree Days:	2,203
Average No. Air Change Per Hour:	1.00

*Delta T represents the temperature difference between indoor and outdoor environments. Higher values indicate greater heat loss potential.*

### About These Parameters

These parameters are used in the heat loss calculations and determine the heating requirements for the property. The degree days value is particularly important as it represents the severity of the local climate and directly affects annual energy consumption.

## Hot Water Parameters

Total Occupants:	0
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