

Hession Energy

Provisional Part L Compliance Report

Air to Water Heat Pump with Mechanical Heat Recovery Ventilation

Project details

Client	Rory Yates
Address	GF Apartment, 58 Mayorstone Drive, Mayorstone, Co. Limerick
Date of assessment	17/03/2025
Purpose of assessment	Existing Dwelling-Major Renovation & Extension

Property building fabric Target U Values

Floor	0.13 (Existing Ground flooring to achieve u-value of 0.13w/m2k or beter)
Walls	0.18 (Existing Ground floor Wall to achieve u-value of 0.18 w/m2k or beter)
Walls	0.18 (New build Wall GF Wall 110mm Kingspan K8 or similar)
Doors	1.4 or better
Windows	0.9 Triple glazing with 0.45 solar transmittance
Thermal bridging	0.08 (the building must be built to acceptable construction detail and the relevant drawings signed off)

Ventilation

Ventilation system	Mechanical Heat Recovery Ventilation system inputted
Air Permeability target	3m3/hr/m2 or better

Lighting

Percentage of low energy lights	100% Low energy lights
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Main heating system

Heating System	Air to Water Heat Pump TBC in DEAP Software
Underfloor heating or radiators	Underfloor all throughout the house
Heating Controls	Each heating zone to have time & temperature stats

Secondary space heating system

Secondary Heating System	-
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Property results

Carbon performance coefficient < 0.35	-
Energy performance coefficient < 0.3	-
CO2 Emissions	06.98
Energy value	54.55
Energy Rating	A3

Note: any changes to the above construction target values during construction could cause the property not to comply. During construction photos to be taken of insulation make up to prove non backstop u values were used in the construction.

Heat pump to be sized by heat pump supplier