

PHPP-Energy balance calculation



Architecture:
 Street:
 Postcode/City:
 Province/Country:

Energy consultancy: **Eric Fewster, ColdProof**
 Street:
 Postcode/City: **Salford**
 Province/Country: **Greater Manchester** **GB-United Kingdom/ Britain**

Year of construction: **1970**
 No. of dwelling units: **1**
 No. of occupants: **1.9**

Building:
 Street:
 Postcode/City:
 Province/Country: **Lancashire** **GB-United Kingdom/ Britain**
 Building type: **Semi-detached**
 Climate data set: **GB0008a-Fairfield**
 Climate zone: **3: Cool-temperate** Altitude of location: **63 m**

Home owner / Client:
 Street:
 Postcode/City:
 Province/Country: **Lancashire** **GB-United Kingdom/ Britain**

Mechanical engineer:
 Street:
 Postcode/City:
 Province/Country:

Certification:
 Street:
 Postcode/City: **10-Dwelling**
 Province/Country: **1-Standard (only for residential buil**

Interior temperature winter [°C]: **20.0** Interior temp. summer [°C]: **25.0**
 Internal heat gains (IHG) heating case [W/m²]: **2.8** IHG cooling case [W/m²]: **3.5**
 Specific capacity [Wh/K per m² TFA]: **156** Mechanical cooling:

Specific building characteristics with reference to the treated floor area

		Treated floor area m²		Criteria	Alternative criteria	Fullfilled? ²
Space heating	Heating demand kWh/(m²a)	73.5	≤	-	-	-
	Heating load W/m²	23	≤	-	-	-
Space cooling	Cooling & dehum. demand kWh/(m²a)	-	≤	-	-	-
	Cooling load W/m²	-	≤	-	-	-
	Frequency of overheating (> 25 °C) %	0	≤	-	-	-
	Frequency of excessively high humidity (> 12 g/kg) %	0	≤	-	-	-
Airtightness	Pressurization test result n ₅₀ 1/h	1.4	≤	-	-	-
Non-renewable Primary Energy (PE)	PE demand kWh/(m²a)	220	≤	-	-	-
Primary Energy Renewable (PER)	PER demand kWh/(m²a)	97	≤	-	-	-
	Generation of renewable energy (in relation to projected building footprint area) kWh/(m²a)	86	≥	-	-	-

² Empty field: Data missing; '-': No requirement

I confirm that the values given herein have been determined following the PHPP methodology and based on the characteristic values of the building. The PHPP calculations are attached to this verification.

Task: First name: Surname:
 Issued on: City:

Signature: