

THERMAL PERFORMANCE REPORT

Demo House Project

PROJECT INFORMATION

Address	No address set	Created	12 Aug 2026
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KEY METRICS

TOTAL AREA	HEATING DEMAND	AVG U-VALUE
130,4 m²	10,2 kW	0,36 W/m²·K

PERFORMANCE SUMMARY

Thermal Efficiency	Good	FAIR
System Sizing	Under-sized	CHECK
Heat Loss Rate	357,2 W/K	CHECK
Radiator Coverage	47,7%	CHECK

DESIGN CRITERIA

Outdoor design temperature	-15.0°C	Ground temperature	10.0°C
Unheated space temperature	14.0°C	Average target room temperature	20.1°C

ROOM ANALYSIS

ROOM	AREA	HEATING DEMAND	DEMAND/M²	RADIATOR
Demo Dining Room	22,8 m²	1,8 kW	81 W/m²	Undersized
Demo Guest Room	15,7 m²	1,0 kW	61 W/m²	Undersized
Demo Hallway	8,7 m²	0,6 kW	65 W/m²	Undersized
Demo Bathroom	6,7 m²	0,4 kW	66 W/m²	Adequate
Demo Home Office	12,5 m²	1,1 kW	85 W/m²	Undersized
Demo Kitchen	15,1 m²	1,0 kW	68 W/m²	Undersized
Demo Living Room	29,8 m²	2,8 kW	95 W/m²	Undersized
Demo Master Bedroom	19,2 m²	1,5 kW	78 W/m²	Undersized

BUILDING ENVELOPE

ELEMENT	U-VALUE	RATING
Walls	0,28 W/m²·K	Good
Windows	1,50 W/m²·K	Moderate
Roof	0,18 W/m²·K	Excellent
Overall	0,36 W/m²·K	Good

HEATING SYSTEM

Total Radiator Capacity	4,9 kW	System Margin	-52,3%
Under-sized Rooms	7	Annual Energy Estimate	31.340 kWh

RECOMMENDATIONS

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Optimize Radiator Sizing

7 rooms have insufficient radiator capacity. Add or upgrade radiators to ensure adequate heating.