

Passive House Verification



Architecture: Pillier & Putz Construction Ltd./Halstead Drafting & Design
 Street: 320 Hodsman Rd.
 Postcode/City: S4N5X4 Regina
 Province/Country: Saskatchewan Canada

Energy consultancy: Pillier & Putz Construction Ltd.
 Street: 320 Hodsman Rd.
 Postcode/City: S4N5X4 Regina
 Province/Country: Saskatchewan Canada

Year of construction: 2017
 No. of dwelling units: 1
 No. of occupants: 3.2

Building: 128 Jameson Cres.
 Street: 128 Jameson Cres.
 Postcode/City: White City
 Province/Country: Saskatchewan Canada

Building type: Single Family Home
 Climate data set: CA0012b-Regina
 Climate zone: 2: Cold Altitude of location: 616 m

Home owner / Client: Adam Putz
 Street: 128 Jameson Cres.
 Postcode/City: S4L 5B1 White City
 Province/Country: Saskatchewan Canada

Mechanical system: The Green Builder Supply Corp.
 Street: 2925 - 20 Miners Ave.
 Postcode/City: S7K4Z6 Saskatoon
 Province/Country: Saskatchewan Canada

Certification:
 Street:
 Postcode/City:
 Province/Country:

Interior temperature winter [°C]: 20.0 Interior temp. summer [°C]: 25.0
 Internal heat gains (IHG) heating case [W/m²]: 2.2 IHG cooling case [W/m²]: 2.2
 Specific capacity [Wh/K per m² TFA]: 60 Mechanical cooling:

Specific building characteristics with reference to the treated floor area

	Treated floor area m²			Alternative criteria		Fulfilled?²
				Criteria	Alternative criteria	
Space heating	Heating demand kWh/(m²a)	34	≤	15	-	no
	Heating load W/m²	17	≤	-	10	
Space cooling	Cooling & dehum. demand kWh/(m²a)	-	≤	-	-	-
	Cooling load W/m²	-	≤	-	-	-
	Frequency of overheating (> 25 °C) %	3	≤	10	-	yes
	Frequency excessively high humidity (> 12 g/kg) %	0	≤	20	-	yes
Airtightness	Pressurization test result n ₅₀ 1/h	0.3	≤	0.6	-	yes
Non-renewable Primary Energy (PE)	PE demand kWh/(m²a)	154	≤	-	-	-
Primary Energy Renewable (PER)	PER demand kWh/(m²a)	85	≤	60	75	no
	Generation of renewable energy kWh/(m²a) (in relation to projected building)	89	≥	-	21	

² Empty field: Data missing; -¹: No requirement