

Passive House verification

Photo or Drawing

Building:	Hedlunda Förskola		
Street:			
Postcode/City:	Umeå		
Country:	Sweden		
Building Type:	Pre-School		
Climate:	Umeå		
Home Owner(s) / Client(s):	Umeå Kommun , Samhällsbyggnadskontor, Fastighet		
Street:			
Postcode/City:			
Architect:	Sweco Architects AB; Umeå, responsible Passive House designer, architect Thomas Greindl		
Street:	Västra Norrlandsgatan 10 B		
Postcode/City:	90103 Umeå		
Mechanical System:	Sweco Systems		
Street:	Västra Norrlandsgatan 10B		
Postcode/City:	90103 Umeå		
Year of Construction:	2013	Interior Temperature:	20,0 °C
Number of Dwelling Units:	1	Internal Heat Gains:	2,8 W/m ²
Enclosed Volume V _e :	5283,0		3,0
Number of Occupants:	108,0		

Specific building demands with reference to the treated floor area

use: Monthly method

		Requirements	Fulfilled?*
Space heating	Treated floor area	1322,5 m ²	
	Annual heating demand	15 kWh/(m ² a)	15 kWh/(m ² a) yes
	Heating load	11 W/m ²	10 W/m ² -
Space cooling	Overall specific space cooling demand	kWh/(m ² a)	- -
	Cooling load	W/m ²	- -
	Frequency of overheating (> 25 °C)	0,0 %	- -
Primary Energy	space heating and cooling, dehumidification, household electricity, DHW, space heating and auxiliary electricity	120 kWh/(m ² a)	120 kWh/(m ² a) yes
	DHW, space heating and auxiliary electricity	52 kWh/(m ² a)	- -
	Specific primary energy reduction through solar electricity	kWh/(m ² a)	- -
Airtightness	Pressurization test result n ₅₀	0,3 1/h	0,6 1/h yes

* empty field: data missing; '-': no requirement

Passive House?

yes

We 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 application.

Name: Greindl
Surname: Thomas
Company: Sweco Architects AB

Registration number PHPP: PHIDE_100712_24137321_en7
Issued on:
Signature: