Certificate

Certified Passive House Classic

B.Tec Prof. Dr. Harald Krause
Sonnenfeld 9
DE-83122 Samerberg
www.btec-rosenheim.de

Authorised by:

Passive House Institute
Dr. Wolfgang Feist
64283 Darmstadt
Germany

Knivsta Centrum för idrott och kultur
Parkvägen 31 A, 741 75 Knivsta, Sweden

Certificate only valid for the building area without ice rink

Certified Passive House | classic | plus | premium |

Client	Kommunfastigheter i Knivsta AB Centralvägen 19 E 741 40 Knivsta, Sweden
Architect	Norconsult AB Bangårdsgatan 13 753 20 Uppsala, Sweden
Building Services	Enerwex AB Honnörsgatan 16 352 36 Växjö, Sweden
Energy Consultant	IG Passivhus Sverige AB Honnörsgatan 16 35236 Växjö, Sweden

Passive House buildings offer excellent thermal comfort and very good air quality all year round. Due to their high energy efficiency, energy costs as well as greenhouse gas emissions are extremely low.

The design of the above-mentioned building meets the criteria defined by the Passive House Institute for the 'Passive House Classic' standard:

Building quality		This building		Criteria	Alternative criteria
Heating					
Heating demand	[kWh/(m²a)]	9	≤	15	-
Heating load	[W/m²]	8	≤	-	10
Cooling					
Cooling + dehumidification demand	[kWh/(m²a)]	0	≤	15	15
Cooling load	[W/m²]	1	≤	-	11
Frequency of overheating (> 25 °C)	[%]	-	≤	-	
Frequency of excessively high humidity	[%]	0	≤	10	
Airtightness					
Pressurization test result (n_{50})	[1/h]	0,1	≤	0,6	
Non-renewable primary energy (PE)					
PE demand	[kWh/(m²a)]	75	≤	-	
Renewable primary energy (PER)					
PER-demand	[kWh/(m²a)]	35	≤	60	60
Generation (reference to ground area)	[kWh/(m²a)]	15	≥	-	-

The associated certification booklet contains more characteristic values for this building.

Samerberg, Törwang, 30. July 2020

Certifier: Harald Krause, B.Tec Dr. Harald Krause