

Certificate

Certified Passive House Classic



Herz & Lang GmbH
Ritzensonnenhalb 5a
87480 Weitnau,
Germany

Authorised
by:



Dr. Wolfgang Feist
64283 Darmstadt
Germany

pilot project "Passive House in Dubai" Al Khawaneej Street, Al Khawaneej, Vereinigte Arabische Emirate



Client	MBRSC - Mohammed Bin Rashid Space Centre Al Khawaneej Street Al Khawaneej, Vereinigte Arabische Emirate
Architect	Casetta&Partners via Verdi, 67 31046 Oderzo, Italien
Building Services	Energy Plus Project piazzetta San Marco, 7/8 31053 Pieve di Soligo,
Energy Consultant	University of Bergamo Viale Marconi, 5 24044 Dalmine, Italien

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)]	0	≤	15	-
	Heating load	[W/m²]	-	≤	-	-
Cooling						
	Cooling + dehumidification demand	[kWh/(m²a)]	50	≤	19	57
	Cooling load	[W/m²]	10	≤	-	11
	Frequency of overheating (> 25 °C)	[%]	-	≤	-	-
	Frequency of excessively high humidity	[%]	0	≤	10	-
Airtightness						
	Pressurization test result	(n ₅₀) [1/h]	0,5	≤	0,6	-
Non-renewable primary energy (PE)						
	PE demand	[kWh/(m²a)]	143	≤	-	-
Renewable primary energy (PER)						
	PER-demand	[kWh/(m²a)]	73	≤	60	73
	Generation (reference to ground area)	[kWh/(m²a)]	185	≥	-	19

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

87480 - Weitnau - DE-Germany, 15.September 2016

Certifier: Herz & Lang GmbH

Florian Lang
DI (FH) Florian Lang