

Region: Trentino Alto Adige Archetype code:

Building category: Commercial buildings COMM_1971-1980_E_TN

Period of construction: 1971-1980

Climatic zone: E Number of records: 268

Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):

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External walls: no data available Roof slabs: no data available

Data sources: APE (100%)

	Data	Councils al	lluis of	D.C. a.u.	Standard	01 /final	B.d. a aliana	02 (4) (4)		
	Data	Symbol	Unit of measure	Mean value	deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
BUILDING GEOMETRY	Number of floors	n _f	-	-	-	-	-	- quartile)		
	Gross height	Hg	m	-	-	-	_	-		
	Footprint area	A _{footprint}	m ²	-	-	-	_	-		
	Heated gross floor area	A _{H;g}	m ²	_	-	-	_	-		
	Heated net floor area	A _{H;n}	m ²	376	94	84	133	219		
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m ³	1583	4495	351	523	918		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.60	0.18	0.49	0.59	0.70		
	WWR – North orientation	WWR _N	_	-	-	-	-	-		
員	WWR – South orientation	WWR _S	_	_	_	_	_	-		
<u> </u>	WWR – East orientation	WWR _E	_	_	_	_	_	_		
	WWR – West orientation	WWR _W	_	_	_	-	_	_		
	Window to useful floor area ratio	A_{wi}/A_{use}	-	-	-	-	-	-		
	Roof type			,	-					
	<i>U</i> -value of the roof	U _{fl;up}	W/(m ² ·K)	-	-	-	-	-		
	External walls type	- 11,44	, , ,		-		I			
핕	<i>U</i> -value of the wall	U _{wl}	W/(m ² ·K)	_	-	-	-	-		
읦	Slab on ground floor type		, , ,		-		I			
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	_	-	-	-	-		
	Windows type	.,	, , ,		-		ı			
	<i>U</i> -value of the windows	U _W	W/(m ² ·K)	_	-	-	-	-		
	Shading system type		, , ,		-		ı			
7	Occupancy density *	O _C	O _C person/m ² UNI EN 16798-1 - Table A.19							
GAINS and VENTILATION	Lighting power density *	W _L	W/m ²	UNI EN 16798-1 - A.8.3						
GAINS and ENTILATION	Equipment power density *	W _A	W/m ²	UNI EN 16798-1 - A.8.3						
N F	Type of ventilation		Natural: 100%							
A K	Air exchange rate *	n	h-1							
	Heating system type		Unknown: 55%, Autonomous: 23%, Centralized: 22%							
THERMAL SYSTEMS	Heating generator	Boiler (unknown type): 43%, Traditional boiler: 19%, Condensing boiler: 14%, Air source heat pump: 11%, DHC: 8%, Unknown: 5%								
	Daily operating time of the heating system *	t _H	h	14	-	14	14	14		
	Energy carrier	Natural gas: 83%, Electricity: 7%, Gas Oil: 4%, District heating: 3%, Electricity from PV, wind turbines, hydraulic turbines: 2%, Solid biomass: 1%								
	Heating emission sub-system	-								
<u>¥</u>	Cooling system type	Unknown: 86%, Air-cooled chiller:13%, Water-cooled chiller: 1%								
THERM	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type	Unknown: 36%, Autonomous – coupled with heating: 26%, Autonomous - detached from heating: 24%, Centralized – coupled with heating: 10%, District heating: 4%								
	DHW generator	Natural gas boiler: 38%, Unknown: 37%, Electric boiler: 11%, Electric heat pump: 14%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									



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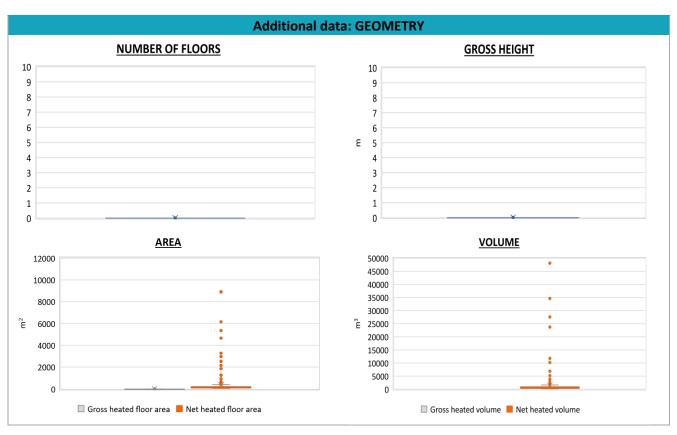


The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.



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ADDITIONAL DATA									
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{H;gen}$ or $\mathit{COP}_{H;gen}$	-	This value has to be retrieved from suitable datasheets					
	Total heating power	$P_{H;gen}$	kW	109	182	25	34	113	
	Cooling efficiency or EER	$\eta_{C;gen}$ or $\mathit{EER}_{C;gen}$	-	This value has to be retrieved from suitable datasheets					
	Total cooling power	$P_{C;gen}$	kW	55	125	7	13	37	
	Temperature of DHW	$artheta_{W}$	°C	40	-	40	40	40	
•	DHW system power	$P_{ m W;gen}$	kW	-	-	-	-	-	





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