

Trentino Alto Adige **Region:** Archetype code: **Building category:** Residential buildings-Single family RES_SINGLE_1981-1990_E_TN **Period of construction:** 1981-1990 Climatic zone:

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

Number of records: 1648

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

Ε

Data sources: APE (100%)

				1		04 (5)	2.0	00/01: 1			
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
BUILDING GEOMETRY	Number of floors	n _f	-	- value	-	- qual tile)	-	- 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	131	95	90	102	130			
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m ³	493	395	331	387	492			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.61	0.15	0.50	0.64	0.73			
	WWR – North orientation	WWR _N	-	-	-	-	-	-			
	WWR – South orientation	WWR _S	_	_	_	-	_	-			
	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	7.1			-			·			
F	<i>U</i> -value of the wall	U _{wl}	W/(m ² ·K)	-	-	-	-	-			
EE	Slab on ground floor type	-									
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	-	-	-	-	-			
	Windows type	,			-			'			
	<i>U</i> -value of the windows	U _W	W/(m ² ·K)	-	-	-	-	-			
	Shading system type				-						
7	Occupancy density *	O _C	O _C person/m ² UNI EN 16798-1 - Table A.19								
필	Lighting power density *	W∟	W/m ²	UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Equipment power density *	W _A	W/m²	UNI EN 16798-1 - A.8.3							
SAI	Type of ventilation			Natural: 100%							
~ ≥	Air exchange rate *	n	h ⁻¹	0.30	-	0.30	0.30	0.30			
	Heating system type	Unknown: 73%, Autonomous: 23%, Centralized: 4%									
THERMAL SYSTEMS	Heating generator	Traditional boiler: 39%, Condensing boiler: 29%, Boiler (unknown type): 27%, DHC: 3%, Fireplace: 1%, Air source heat pump: 1%									
	Daily operating time of the heating system *	t _H	h	14	-	14	14	14			
	Energy carrier	Natural gas: 88%, Electricity: 3%, District heating: 3%, Gas Oil: 3%, LPG: 2%, Solid biomass: 1%									
	Heating emission sub-system	-									
	Cooling system type	Unknown: 95%, Absorption chiller: 5%									
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system	-									
	DHW system type	Autonomous – coupled with heating: 48%, Unknown: 42%, Autonomous - detached from heating: 4%, Centralized – coupled with heating: 4%, District heating: 3%									
	DHW generator	Natural gas boiler: 53%, Unknown: 43%, Electric heat pump: 2%, Electric boiler: 1%, Solar thermal: 1%									
	* 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.



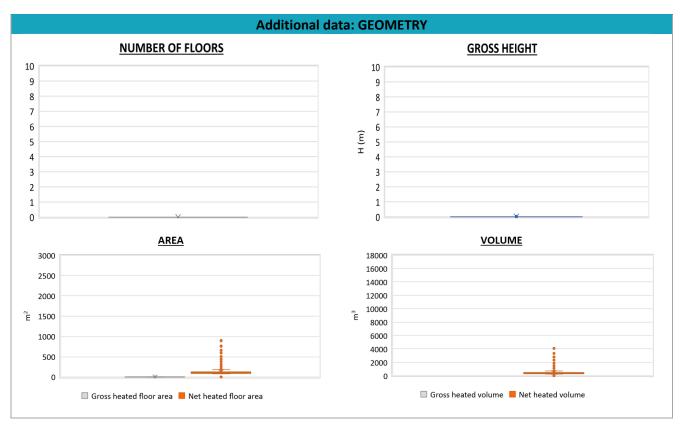
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ADDITIONAL DATA												
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)				
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ ext{H;gen}}$ or $ ext{ extit{COP}}_{ ext{H;gen}}$	-	This value has to be retrieved from suitable datasheets								
	Total heating power	$P_{H;gen}$	kW	55	19	24	28	35				
	Cooling efficiency or EER	η _{C;gen} or <i>EER</i> _{C;gen}	-	This value has to be retrieved from suitable datasheets								
	Total cooling power	$P_{C;gen}$	kW	10	16	4	5	8				
	Temperature of DHW	$artheta_{W}$	°C	40	-	40	40	40				
•	DHW system power	$P_{ m W;gen}$	kW	55	19	24	28	35				





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4