

Region: Trentino Alto Adige Archetype code: **Building category:** Residential buildings-Single family RES_SINGLE_1951-1960_E_TN **Period of construction:** 1951-1960 Climatic zone:

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

Number of records: 1239

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

Ε

Data sources: APE (100%)

	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third			
	Data	Зуппоот	measure	value	deviation	quartile)	value	quartile)			
BUILDING GEOMETRY	Number of floors	n _f	-	-	-	-	-	-			
	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	116	64	89	99	118			
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m ³	453	247	347	391	460			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.62	0.20	0.43	0.66	0.74			
	WWR – North orientation	WWR _N	_	-	-	-	-	-			
틸	WWR – South orientation	WWR _S	_	-	-	-	-	-			
8	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				-						
PE	<i>U</i> -value of the wall	U _{wl}	W/(m²⋅K)	-	-	-	-	-			
ENVELOPE	Slab on ground floor type				-						
	<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/(m²⋅K)	-	-	-	-	-			
	Shading system type				-						
z	Occupancy density *	O _C	person/m²	UNI EN 16798-1 - Table A.19							
pu OL	Lighting power density *	W∟	W/m²	UNI EN 16798-1 - A.8.3							
NS S	Equipment power density *	W _A	W/m²	UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation			Natural: 100%							
~ ≥	Air exchange rate *	n	h ⁻¹	0.30	-	0.30	0.30	0.30			
	Heating system type		Unknown: 76%, Autonomous: 20%, Centralized: 4%								
S	Heating generator	Traditional boiler: 37%, Condensing boiler: 32%, Boiler (Unknown type): 23%, Unknown: 4%, Air source heat pump: 2%, DHC: 1%, Fireplace: 1%									
	Daily operating time of the heating system *	t _H	h	14	-	14	14	14			
EMS	Energy carrier	Natural gas: 89%, Electricity: 4%, Gas Oil: 3%, LPG: 2%, Solid biomass: 1%, District heating: 1%									
THERMAL SYSTER	Heating emission sub-system	-									
	Cooling system type	Unknown: 93%, Absorption chiller: 7%									
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system		-								
	DHW system type	Autonomous – coupled with heating: 43%, Unknown: 40%, Autonomous - detached from heating: 14%, Centralized – coupled with heating: 3%, District heating: 1%									
	DHW generator	Natural gas boiler: 48%, Unknown: 40%, Electric boiler: 8%, Electric heat pump: 4%									
	* 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.



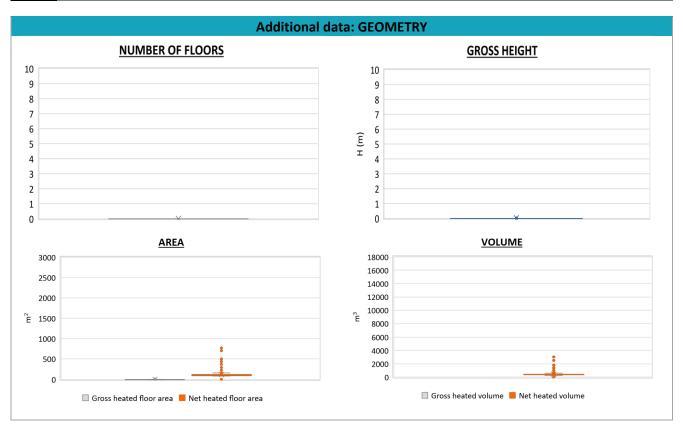
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ADDITIONAL DATA												
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)				
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ ext{H;gen}}$ or $ ext{ extit{COP}}_{ ext{H;gen}}$	-	This value has to be retrieved from suitable datasheets								
	Total heating power	$P_{H;gen}$	kW	33	52	24	25	30				
	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	11	30	4	5	7				
	Temperature of DHW	$artheta_{W}$	°C	40	-	40	40	40				
	DHW system power	P _{W;gen}	kW	33	52	24	25	30				





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