

 Region:
 Trentino
 Archetype code:

 Building category:
 Educational
 EDUC\_

 Period of construction:
 <1930</td>
 -1930\_F\_TN

 Climatic zone:
 F
 Number of records:
 41

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

External walls: no data available

Data sources: EPC databases (100%)

Roof slabs: no data available

	Data									
		Symbol	Unit of	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
	Number of floors	n <sub>f</sub>	measure -	value -	ueviation -	quartile)	value -	quartile)		
_	Gross height	Hg	m	-	_	_	_	_		
_	Footprint area	A <sub>footprint</sub>	m <sup>2</sup>	_	_	_	_	_		
_	Heated gross floor area	A <sub>H;g</sub>	m <sup>2</sup>	_	_	_	_	_		
<u>~</u>	Heated net floor area	A <sub>H;n</sub>	m <sup>2</sup>	988	797	552	784	1204		
ME -	Heated gross volume	V <sub>H;g</sub>	m³	-	-	-	-			
	Heated net volume	V <sub>H;n</sub>	m <sup>3</sup>	4770	4122	2786	3719	5530		
9 9	Compactness ratio	A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.49	0.13	0.41	0.44	0.54		
BUILDING GEOMETRY	WWR – North orientation	WWR <sub>N</sub>	-	-	-	-		-		
3	WWR – South orientation	WWR <sub>S</sub>	-	_	-	_	_	-		
<b>—</b>	WWR – East orientation	WWR <sub>E</sub>	_	_	-	_	_	-		
	WWR – West orientation	WWR <sub>w</sub>	_	_	-	_	_	-		
	Window to useful floor									
	area ratio	A <sub>wi</sub> /A <sub>use</sub>	-	-	-	-	-	-		
	Roof type		-							
	<i>U</i> -value of the roof	U <sub>fl;up</sub>	W/(m²⋅K)	-	-	-	-	-		
	External walls type	, .	-							
E E	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²⋅K)	-	-	-	-	-		
EFC	Slab on ground floor type				-					
ENVELOPE	<i>U</i> -value of the floor	U <sub>fl;lw</sub>	W/(m <sup>2</sup> ·K)	-	-	-	-	-		
	Windows type	,			-					
	<i>U</i> -value of the windows	U <sub>W</sub>	W/(m²⋅K)	-	-	-	-	-		
	Shading system type				-					
	Occupancy density *	O <sub>C</sub> person/m <sup>2</sup> UNI EN 16798-1 - Table A.19								
	Lighting power density *	W∟								
GAINS and VENTILATION	Equipment power density *	W <sub>A</sub>								
A H	Type of ventilation		Natural: 100%							
	Air exchange rate *	n	h⁻¹	h <sup>-1</sup> UNI EN 16798-1						
	Heating system type	Centralized: 63%; Autonomous: 20%, Unknown: 17%								
	Heating generator	Boiler (unknown type): 85%; Unknown: 7%; Heat exchanger of district heating/cooling: 5%; Fireplace: 3%								
	Daily operating time of the heating system *	t <sub>H</sub> h No limitation								
MS	Energy carrier	Natural gas 62%; Gas oil: 23%; District heating: 5%; Solid biomass: 5%; Electricity from PV, wind turbines, hydraulic turbines: 3%; LPG: 2%								
S	Heating emission sub- system	<u>-</u>								
<u>₹</u>	Cooling system type	Unknown: 100%								
HERM	Daily operating time of the cooling system *	t <sub>C</sub>	t <sub>C</sub> h No limitation							
	Cooling emission sub- system	-								
	DHW system type	Centralized – coupled with heating: 36%; Autonomous – coupled with heating: 27%; Unknown: 15%; Autonomous, detached from heating: 12%; District heating: 10%								
	DHW generator	Natural gas boiler: 72%; Electric Heat Pump: 12%; Unknown: 12%; Electric boiler: 4%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									



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	$\eta_{\sf H;gen}$ or $ extit{COP}_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	$P_{H;gen}$	kW	166	148	82	127	198
	Cooling efficiency or EER	η <sub>C;gen</sub> or <i>EER</i> <sub>C;gen</sub>	-	This value has to be retrieved from suitable datasheets				
	Total cooling power *	$P_{C;gen}$	kW	-	-	-	-	-
	Temperature of DHW	$artheta_{W}$	°C	40	-	40	40	40
	DHW system power *	$P_{ m W;gen}$	kW	143	160	64	91	172





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