

Region: Trentino Archetype code: **Building category:** Educational EDUC_ 2011-_F_TN **Period of construction:** >2011 Climatic zone: Number of records: F

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

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

Data sources: EPC databases (100%)

	Data		Unit of	Mean	Standard	Q1 (first	Median Q3 (third				
		Symbol	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}	m²	-	-	-	-	-			
	Heated net floor area	A _{H;n}	m²	1227	1085	594	938	1481			
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m³	6234	5748	2663	4702	6673			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.50	0.13	0.40	0.49	0.60			
	WWR – North orientation	WWR _N	-	_	-	-	-	-			
3	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				-						
PE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	-	-	-	-	-			
ENVELOPE	Slab on ground floor type				-						
Š	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²⋅K)	-	-	-	-	-			
	Windows type	,			-						
	<i>U</i> -value of the windows	U _W	W/(m²⋅K)	-	-	-	-	-			
	Shading system type				-						
	Occupancy density *	O _C person/m ² UNI EN 16798-1 - Table A.19									
P N	Lighting power density *	W∟	W/m ²		UNI EN 16798-1 - A.8.3						
GAINS and VENTILATION	Equipment power density *	W _A W/m ² UNI EN 16798-1 - A.8.3									
A G	Type of ventilation	Natural: 100%									
	Air exchange rate *	n	h ⁻¹	h ⁻¹ UNI EN 16798-1							
	Heating system type	Centralized: 37%; Unknown 42%; Autonomous: 21%									
	Heating generator	Boiler (unknown type): 86%; Unknown 14%									
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H									
	Energy carrier	Natural gas 66%; Gas oil: 13%; Solid biomass: 13%; LPG: 2%; Electricity from PV, wind turbines, hydraulic turbines: 3%; Electricity: 3%									
	Heating emission sub- system	-									
	Cooling system type	Unknown: 98%; Air-cooled chiller: 2%									
	Daily operating time of the cooling system *	t _C	h		No limitation						
	Cooling emission sub- system	-									
	DHW system type	Centralized – coupled with heating: 37%; Autonomous – coupled with heating: 27%; Autonomous - detached from heating: 24%; Unknown: 10%; District heating: 2%									
	DHW generator	Natural gas boiler: 65%; Electric Heat Pump: 23%; Unknown 7%; Solar thermal: 5%									
	* These values were not available in	lues were not available in the considered sources, and are thus derived from UNI EN Standards									



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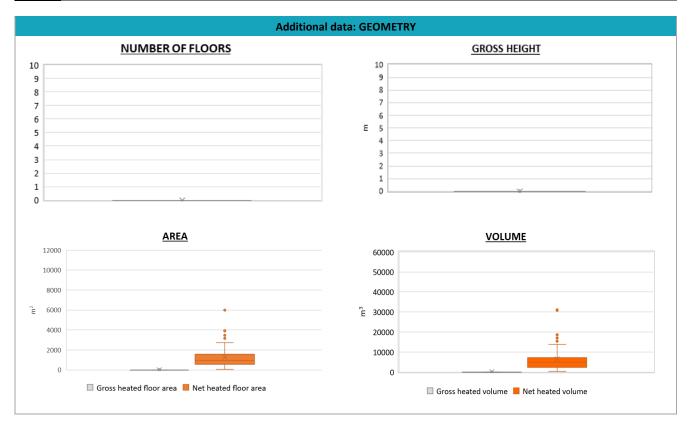
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or <i>COP</i> _{H;gen}	-	This value has to be retrieved from suitable datasheets				
	Total heating power	P _{H;gen}	kW	135	135	50	90	154
	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	-	-	-	-	-
	Temperature of DHW	ϑ_{W}	°C	40	-	40	40	40
	DHW system power	P _{W;gen}	kW	109	122	40	66	136





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