

 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Educational buildings
 EDUC\_1971-1980\_E\_TN

 Period of construction:
 1971-1980

Climatic zone: E Number of records: 47

**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: APE (100%)

	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third			
BUILDING GEOMETRY	Number of floors	n <sub>f</sub>	measure	value	deviation -	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>	 m²	_	_	_	_	_			
	Heated net floor area	A <sub>H;n</sub>	 m²	2509	2285	900	1833	3371			
	Heated gross volume	V <sub>H;g</sub>	m³	-	-	-	-	-			
	Heated net volume	V <sub>H;n</sub>	m <sup>3</sup>	11127	10320	3850	7375	15541			
	Compactness ratio	A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.53	0.14	0.41	0.48	0.65			
	WWR – North orientation	WWR <sub>N</sub>		-	-	-	-	-			
=	WWR – South orientation	WWR <sub>S</sub>	_	_	_	_		_			
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	- 11,00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-						
PE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²⋅K)	-	-	-	-	-			
EFO	Slab on ground floor type		, ,	1	-						
ENVELOPE	<i>U</i> -value of the floor	U <sub>fl;lw</sub>	W/(m²⋅K)	-	-	-	-	-			
	Windows type	-									
	<i>U</i> -value of the windows	U <sub>W</sub>	W/(m²⋅K)	-	-	-	-	-			
	Shading system type				-						
7	Occupancy density *	O <sub>C</sub>	person/m <sup>2</sup>	rson/m <sup>2</sup> UNI EN 16798-1 - Table A.19							
	Lighting power density *	W <sub>L</sub>	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3							
SS [A]	Equipment power density *	W <sub>A</sub>	W/m²	UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation			Natural: 100%							
2 8	Air exchange rate *	n	h <sup>-1</sup> UNI EN 16798-1								
	Heating system type	Autonomous: 19%, Centralized: 36%, Unknown: 45%									
	Heating generator	Trac	litional boiler: 1:	1%, Conder	nsing boiler: 17	%, Boiler (unkn	own type): 55%, I	DHC: 17%			
MS	Daily operating time of the heating system *	t <sub>H</sub>	h	14	0	14	14	14			
	Energy carrier	Natural gas: 80%, Electricity: 2%, District heating: 16%, Gas Oil: 2%									
STE	Heating emission sub-system	-									
THERMAL SYSTEMS	Cooling system type	Air-cooled chiller: 19%, Water-cooled chiller: 2%, Unknown: 79%									
	Daily operating time of the cooling system *	t <sub>C</sub>	h	0	0	0	0	0			
	Cooling emission sub-system	-									
	DHW system type	Autonomous – coupled with heating: 21%, Autonomous - detached from heating: 23%, Centralized – coupled with heating: 36%, District heating: 11%, Unknown: 9%									
	DHW generator	Natural gas boiler: 64%, Electric boiler: 21%, Electric heat pump: 5%, Unknown: 10%									
	* 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	$P_{ m H;gen}$	kW	227	241	78	200	271				
	Cooling efficiency or EER	$\eta_{ extsf{C};gen}$ or $ extsf{\textit{EER}}_{ extsf{C};gen}$	-	This value has to be retrieved from suitable datasheets								
	Total cooling power	P <sub>C;gen</sub>	kW	182	300	8	30	129				
	Temperature of DHW	$artheta_{W}$	°C	40	-	40	40	40				
	DHW system power	$P_{ m W;gen}$	kW	227	241	78	200	270				





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