

 Region:
 Piedmont
 Archetype code:

 Building category:
 Non-residential buildings – Educational buildings
 EDUC_1941-1950_E_PIE

 Period of construction:
 1941-1950
 Number of records:
 26

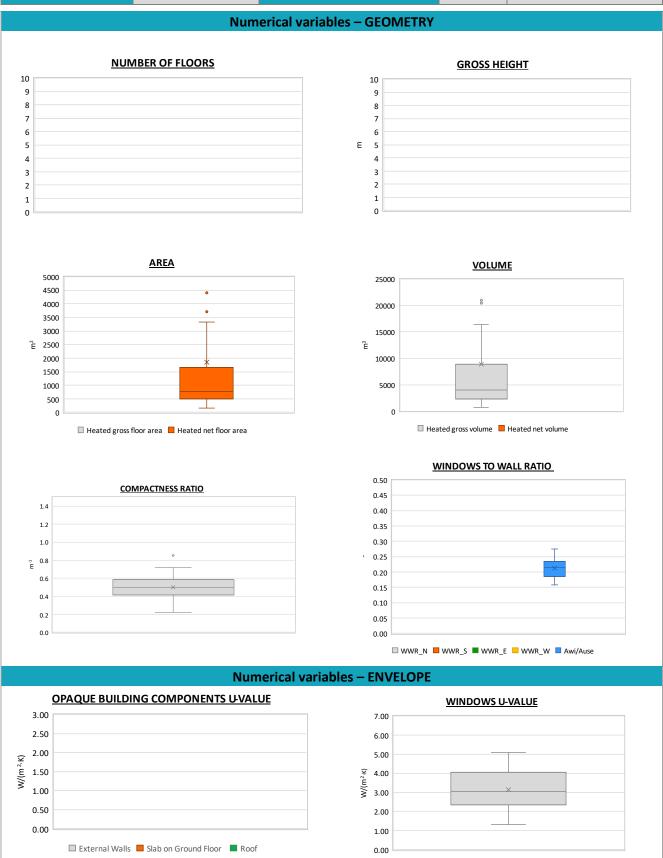
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):

<u>External walls</u>: solid brick masonry (cod. MLP01). <u>Roof slabs</u>: pitched wooden roof (cod. CIN05). Data sources: EPC databases (100%)

	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
BUILDING GEOMETRY	Number of floors	n _f	-	-	-	-	-	-	
	Gross height	Hg	m	-	-	-	-	-	
	Footprint area	A _{footprint}	m²	-	-	-	-	-	
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-	
	Heated net floor area	A _{H;n}	m²	1851.3	2412.2	505.1	778.7	1670.2	
	Heated gross volume	V _{H;g}	m³	8886.4	11090.1	2299.9	4036.6	8914.9	
GEC	Heated net volume	V _{H;n}	m³	-	-	-	-	-	
و	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.50	0.15	0.41	0.50	0.59	
ā	WWR – North orientation	WWR _N	-	-	-	-	-	-	
Ĕ	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}	-	0.21	0.04	0.19	0.22	0.23	
	Roof type	f type -							
	<i>U</i> -value of the roof	$U_{fl;up}$	W/(m ² ·K)	-	-	-	-	-	
	External walls type		Solid Brick masonry: 65%; Hollow brick masonry: 23%; Unknown: 12%						
) PE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²·K)	-	-	-	-	-	
ENVELOPE	Slab on ground floor type	-							
E	<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)	3.14	1.08	2.34	3.06	4.05	
	Shading system type				-				
_ z	Occupancy density *	O C	person/m²		U	NI EN 16798-1 -	Table A.19		
and TIO	Lighting power density *	W_{L}	W/m ²	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						
EN GA	Type of ventilation		<u>-</u>						
>	Air exchange rate *	n	h ⁻¹	-	-	-	-	-	
	Heating system type	Autonomous: 100%							
	Heating generator	-							
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	14.00	0.00	14.00	14.00	14.00	
	Energy carrier	Natural Gas: 96%; Solid biomass: 4%							
	Heating emission sub-system	-							
L S)	Cooling system type	-							
ERMA	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-	
픋	Cooling emission sub-system								
	DHW system type	Centralized, coupled with heating: 46%; Autonomous, detached from heating: 42%; Autonomous, coupled with heating: 8%; Centralized, detached from heating: 4%							
	DHW generator	-							
	* These values are derived from UNI EN ISO Standards								



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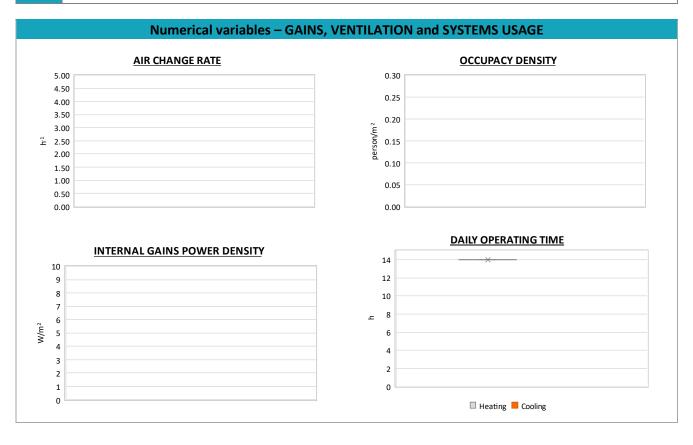


The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.



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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	$\eta_{H;gen}$ or $\mathit{COP}_{H;gen}$	-	This value has to be retrieved from suitable datasheets					
	Total heating power	P _{H;gen}	kW	243.3	209.1	63.7	174.6	325.0	
	Cooling efficiency or EER	$\eta_{ extsf{C}; extsf{gen}}$ or $ extsf{\textit{EER}}_{ extsf{C}; extsf{gen}}$	-	This value has to be retrieved from suitable datasheets					
	Total cooling power	P _{C;gen}	kW	1254.4	2497.1	5.0	6.3	1255.6	
	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0	
É	DHW system power	P _{W;gen}	kW	154.5	213.7	2.4	34.2	300.8	





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