

 Region:
 Trentino Alto Adige
 Archetype code:

 Commercial buildings
 Educational buildings
 EDUC_2001-2010_E_TN

 Period of construction:
 2001-2010

 Climatic zone:
 E
 Number of records:
 39

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 measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
BUILDING GEOMETRY	Number of floors	n _f	-	- value	-	- qual tile)	-	- qual the		
	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	2460	3146	588	1658	2612		
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m ³	11117	12972	2754	6535	11444		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.48	0.13	0.39	0.44	0.60		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
뒴	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/(m²⋅K)	_	-	-	-	-		
	External walls type		,,,,,		-			1		
PE	<i>U</i> -value of the wall	U _{wl}	W/(m²⋅K)	-	-	-	-	-		
EFC	Slab on ground floor type	-								
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	-	-	-	-	-		
ш	Windows type	-								
	<i>U</i> -value of the windows	U _W	W/(m ² ·K)	-	-	-	-	-		
	Shading system type				-					
7	Occupancy density *	O _C	person/m ²	UNI EN 16798-1 - Table A.19						
필	Lighting power density *	W∟	W/m ²	UNI EN 16798-1 - A.8.3						
S E	Equipment power density *	W _A	W/m ²	UNI EN 16798-1 - A.8.3						
GAINS and VENTILATION	Type of ventilation			Natural: 100%						
~ ≥	Air exchange rate *	n	h ⁻¹	UNI EN 16798-1						
	Heating system type	Centralized: 39%, Unknown: 38%, Autonomous: 23%								
	Heating generator	Boiler (Unknown type): 62%, Condensing boiler: 26%, Traditional boiler: 7%, DHC: 5%								
	Daily operating time of the heating system *	t _H	h	14	0	14	14	14		
AS	Energy carrier	Natural gas: 97%, Gas Oil: 3%								
Ę	Heating emission sub-system	-								
THERMAL SYSTEMS	Cooling system type	Unknown: 82%, Air-cooled chiller: 18%								
	Daily operating time of the cooling system *	t _C	h	0	0	0	0	0		
	Cooling emission sub-system	-								
	DHW system type	Autonomous – coupled with heating: 39%, Centralized – coupled with heating: 31%, Unknown: 17%, Autonomous - detached from heating: 8%, District heating: 5%								
	DHW generator	Natural gas boiler: 73%, Unknown: 18%, Electric boiler: 3%, Electric heat pump: 3%, Solar thermal: 3%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									



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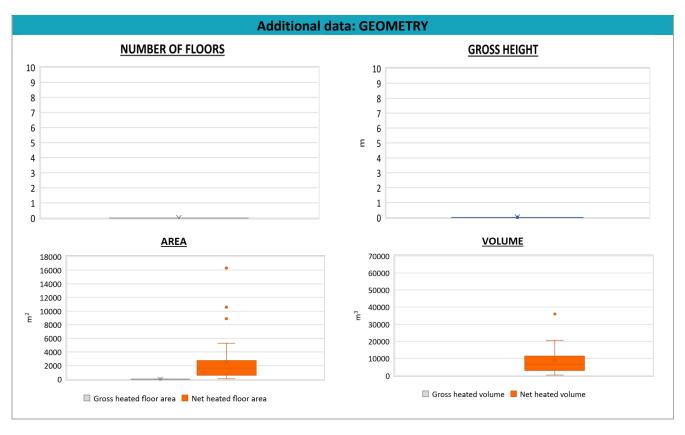


The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.



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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	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	597	1700	117	235	330	
	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 _{C;gen}	kW	1110	1184	132	910	1570	
	Temperature of DHW	ϑ_{W}	°C	40	-	40	40	40	
•	DHW system power	$P_{ m W;gen}$	kW	285	358	85	230	298	





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