

Roof slabs: no data available

 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_2011_E_TN

 Period of construction:
 >2011

 Climatic zone:
 E
 Number of records:
 2239

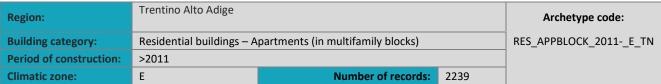
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):

External walls: no data available

Data sources: APE (100%)

				ı						
	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third		
BUILDING GEOMETRY	Number of floors	n _f	measure	value	deviation	quartile)	value -	quartile)		
	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	1031	837	472	705	1169		
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	- 1103		
	Heated net volume	V _{H;n}	m ³	3972	3027	1906	2753	4447		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.55	0.09	0.49	0.55	0.60		
Ž	WWR – North orientation	WWR _N	-	-	-	-	-	- 0.00		
Ę	WWR – South orientation	WWR _S	_	_	-	-	-	<u>-</u>		
B		WWR _E	-	_	-	-	-	-		
	WWR – East orientation WWR – West orientation	WWR _W	-	_	-		-	-		
	Window to useful floor area ratio	A_{wi}/A_{use}	-	-	-	-	-	-		
	Roof type		ı		-					
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²·K)	_	_	-	-	_		
	External walls type	Оп, ар		l	-			<u> </u>		
퓚	<i>U</i> -value of the wall	U _{wl}	W/(m²·K)	_	-	-	-	_		
ENVELOPE	Slab on ground floor type	- **	, , ,	l	-			I		
Ž	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²·K)	-	-	-	-	_		
ш	Windows type	- 11,144	, , ,	l	-			I		
	<i>U</i> -value of the windows	U _W	W/(m ² ·K)	-	-	-	-	_		
	Shading system type		, ,	l	-			I		
	Occupancy density *	O _C	O _C person/m ² UNI EN 16798-1 - Table A.19							
GAINS and VENTILATION	Lighting power density *	W _L	W/m ²			UNI EN 16798	-1 - A.8.3			
GAINS and ENTILATION	Equipment power density *	W _A	W/m ²	UNI EN 16798-1 - A.8.3						
A E	Type of ventilation		,	Natural: 100%						
A K	Air exchange rate *	n	h-1	0.30	-	0.30	0.30	0.30		
	Heating system type		Au	utonomous: 22%, Centralized: 58%, Unknown: 20%						
	Heating generator	Boiler (unknown type): 75%, Air source heat pump: 10%, Condensing boiler: 7%, DHC: 6%, Traditional boiler: 2%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	14	-	14	14	14		
	Energy carrier	Natural gas: 93%, Electricity from PV, wind turbines, hydraulic turbines: 4%, Electricity: 1%, Solid biomass: 1%, LPG: 1%								
	Heating emission sub-system	-								
	Cooling system type	Unknown: 95%, Air-cooled chiller: 5%								
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type	Centralized – coupled with heating: 48%, Autonomous – coupled with heating: 25%, Autonomous - detached from heating: 17%, District heating: 5%, Unknown: 5%								
	DHW generator	Natural gas boiler: 77%, Electric heat pump: 14%, Solar thermal: 4%, Unknown: 4%								
	* These values were not available in the	lable in the considered sources, and are thus derived from UNI EN Standards								









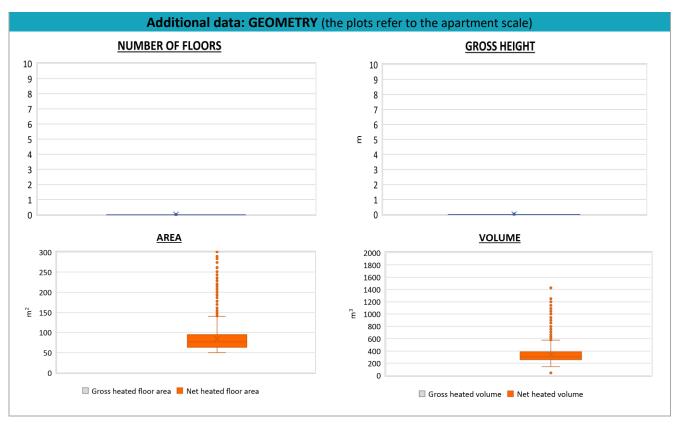
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H _n	m	-	-	-	-	-
	Heated gross floor area	A _{H;g}	m ²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m ²	34	85	63	76	94
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-
	Heated net volume	V _{H;n}	m³	343	149	255	302	385
S	Heating efficiency or COP	η _{H;gen} or <i>COP</i> _{H;gen}	-	This value has to be retrieved from suitable datasheets				
THERMAL SYSTEMS	Total heating power *	P _{H;gen}	kW	79	119	26	55	105
	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	37	24	17	34	52
	Temperature of DHW	$artheta_{W}$	°C	40	-	40	40	40
	DHW system power *	P _{W;gen}	kW	79	119	26	55	105
	* These values refer to the apartment scale							





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