

Climatic zone:

F

Region: Trentino Archetype code: RES_APPBLOCK_ **Building category:** Residential multifamily buildings 2011-_F_TN **Period of construction:** >2011 Number of records: 2419

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

Data sources: EPC databases (100%)

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

Data		Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third		
		,	measure	value	deviation	quartile)	value	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	543	278	372	459	590		
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m³	2188	1248	1486	1794	2347		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.59	0.11	0.53	0.58	0.64		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
E E	WWR – South orientation	WWR _S	-	-	-	-	-	-		
_	WWR – East orientation	WWR _E	-	-	-	-	-	-		
	WWR – West orientation	<i>WWR</i> _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				-					
E S	<i>U</i> -value of the wall	U _{wl}	W/(m²⋅K)	-	-	-	-	-		
Ä	Slab on ground floor type	-								
ENVELOPE	<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	O _C person/m ² UNI EN 16798-1 - Table A.19							
밀	Lighting power density *	W _L	W/m ²	UNI EN 16798-1 - A.8.3						
GAINS and VENTILATION	Equipment power density *	W _A	W/m²	UNI EN 16798-1 - A.8.3						
VEN G	Type of ventilation			Natural: 100%						
	Air exchange rate *	n	h⁻¹	0.3	-	0.3	0.3	0.3		
	Heating system type	Autonomous: 48%; Centralized: 29%; Unknown 23%								
	Heating generator	Boiler (unknown type): 93%; Fireplace: 4%; Air-source heat pump: 3%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	h No limitation						
	Energy carrier	Electricity: 62%; Electricity from PV, wind turbines, hydraulic turbines: 28%; District heating: 10%								
	Heating emission sub- system	-								
	Cooling system type	Unknown: 99%; Air-cooled chiller: 1%								
	Daily operating time of the cooling system *	t _C	h	No limitation						
	Cooling emission sub- system	-								
	DHW system type	Autonomous – coupled with heating: 50%; Centralized – coupled with heating: 25%; Autonomous - detached from heating: 14%; Unknown: 9%; District heating: 2%								
	DHW generator	Natural g	as boiler: 79%; E	lectric Heat P	ump: 10%; Unkn	own 6%; Solar t	hermal: 4%; Elec	tric boiler: 1%		
	* These values were not available in	e in the considered sources, and are thus derived from UNI EN Standards								



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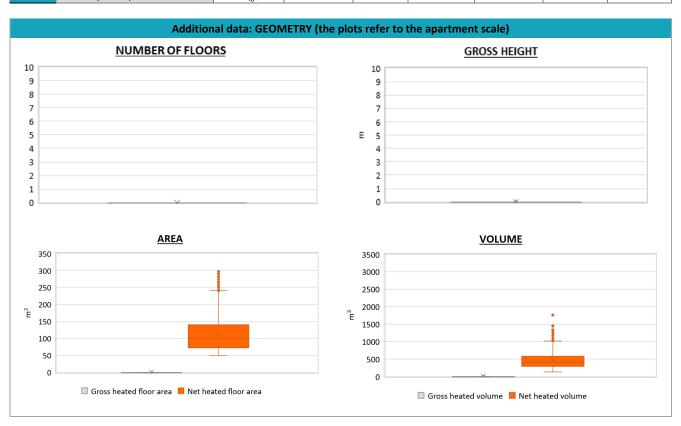
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	Hn	m	-	-	-	-	-
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m²	115	55	73	99	140
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-
	Heated net volume	V _{H;n}	m³	469	300	291	403	583
MS	Heating efficiency or COP	η _{H;gen} or COP _{H;gen}	-	This value has to be retrieved from suitable datasheets				
THERMAL SYSTEMS	Total heating power	P _{H;gen}	kW	30	28	20	25	30
	Cooling efficiency or EER	η _{C;gen} or EER _{C;gen}	-	This value has to be retrieved from suitable datasheets				
	Total cooling power	P _{C;gen}	kW	11	10	6	8	13
	Temperature of DHW	ϑ_{W}	°C	40	-	40	40	40
_	DHW system power	P _{W;gen}	kW	30	34	20	25	30





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