

Region: Trentino Archetype code: Residential multifamily buildings RES\_APPBLOCK\_ **Building category:** -1930\_F\_TN **Period of construction:** <1930 Number of records: 4822 Climatic zone: F

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: EPC databases (100%)

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 <sub>f</sub>	-	-	-	-	-	-	
	Gross height	Hg	m	-	-	-	-	-	
	Footprint area	A <sub>footprint</sub>	m²	-	-	-	-	-	
	Heated gross floor area	A <sub>H;g</sub>	m²	-	-	-	-	-	
	Heated net floor area	A <sub>H;n</sub>	m²	506	245	349	412	549	
	Heated gross volume	V <sub>H;g</sub>	m³	-	-	-	-	-	
	Heated net volume	V <sub>H;n</sub>	m³	2099	1381	1406	1693	2228	
	Compactness ratio	A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.54	0.13	0.45	0.52	0.60	
	WWR – North orientation	WWR <sub>N</sub>	-	-	-	-	-	-	
BG	WWR – South orientation	WWR <sub>S</sub>	-	-	-	-	-	-	
	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)	-	-	-	-	-	
ENVELOPE	External walls type				-				
	<i>U</i> -value of the wall	U <sub>wl</sub>	W/(m²⋅K)	-	-	-	-	-	
	Slab on ground floor type								
	<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				-				
	Occupancy density *	O <sub>C</sub> person/m <sup>2</sup> UNI EN 16798-1 - Table A.19							
₽ N	Lighting power density *	W∟	W/m²	UNI EN 16798-1 - A.8.3					
GAINS and VENTILATION	Equipment power density *	W <sub>A</sub>	W/m²	UNI EN 16798-1 - A.8.3					
A M	Type of ventilation	Natural: 100%							
	Air exchange rate *	n	h <sup>-1</sup>	0.3	-	0.3	0.3	0.3	
	Heating system type	Autonomous: 42%; Unknown: 40%; Centralized: 18%							
	Heating generator	Boiler (unknown type): 92%; Fireplace: 6%; Unknown: 1%; Air-source heat pump: 1%							
THERMAL SYSTEMS	Daily operating time of the heating system *	t <sub>H</sub> h No limitation							
	Energy carrier	Natural gas 27%; Gas oil: 18%; Solid biomass: 16%; District heating: 12%; Electricity: 12%; LPG: 10%; Electricity from PV, wind turbines, hydraulic turbines: 5%							
	Heating emission sub- system	-							
	Cooling system type	Unknown: 100%							
	Daily operating time of the cooling system *	t <sub>C</sub>	h	No limitation					
	Cooling emission sub- system	-							
	DHW system type	Autonomous – coupled with heating: 43%; Unknown: 22%; Autonomous - detached from heating: 19%; Centralized – coupled with heating: 13%; District heating: 3%							
	DHW generator	Natural ga	s boiler: 61%; El	ectric Heat Pui	mp: 18%; Unkno	wn: 16%; Electr	ic boiler: 4%; So	lar thermal: 1%	
	* These values were not available in	in the considered sources, and are thus derived from UNI EN Standards							



 Region:
 Trentino
 Archetype code:

 Building category:
 Residential multifamily buildings
 RES\_APPBLOCK\_

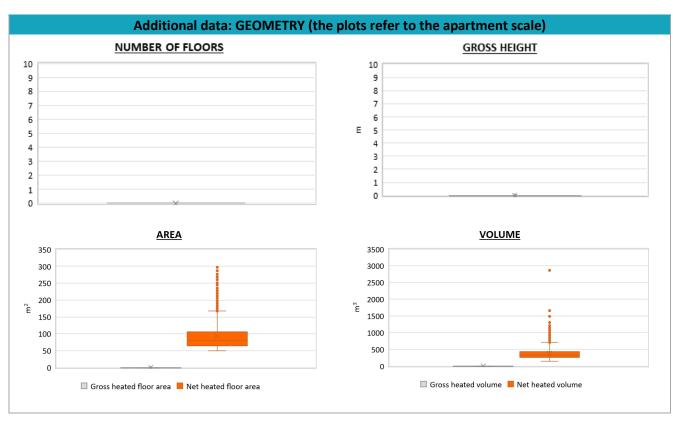
 Period of construction:
 <1930</td>
 -1930\_F\_TN

 Climatic zone:
 F
 Number of records:
 4822





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 <sup>2</sup>	-	-	-	-	-
	Heated net floor area	$A_{H;n}$	m²	93	42	65	80	106
	Heated gross volume	V <sub>H;g</sub>	m³	-	-	-	-	-
	Heated net volume	$V_{H;n}$	m³	378	182	258	327	437
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ ext{H;gen}}$ or $ ext{COP}_{ ext{H;gen}}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	P <sub>H;gen</sub>	kW	39	676	22	25	30
	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 <sub>C;gen</sub>	kW	10	8	4	6	16
	Temperature of DHW	$artheta_{W}$	°C	40	-	40	40	40
	DHW system power *	$P_{ m W;gen}$	kW	29	96	16	24	30





Region:	egion: Trentino					
Building category:	Residential multifamily b	RES_APPBLOCK_				
Period of construction:	<1930	-1930_F_TN				
Climatic zone:	F	Number of records:	4822			

