

Region: Piedmont Archetype code: **Building category:** Residential buildings - Apartments (in multifamily blocks) RES_APPBLOCK_-1930_F_PIE **Period of construction:** < 1930 Climatic zone: **Number of records:** 7739

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

External walls: solid brick masonry (cod. MLP01). Roof slabs: concrete floor slab (cod. SOL06).

F

Data sources:

EPC databases (100%)

	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third		
			measure	value	deviation	quartile)	value	quartile)		
BUILDING GEOMETRY	Number of floors	nf	-	-	-	-	-	-		
	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	-	-	-	-	-		
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-		
	Heated net volume	$V_{\rm H;n}$	m³	-	-	-	-	-		
و	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.73	0.29	0.55	0.71	0.88		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
Ē	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}	-	0.16	0.20	0.11	0.15	0.19		
	Roof type									
	<i>U</i> -value of the roof	U _{fl;up}	W/(m ² ·K)	-	-	-	-	-		
	External walls type	Solid Brick masonry: 89%; Unknown: 6%; Hollow brick masonry: 5%								
ENVELOPE	<i>U</i> -value of the wall	U _{wl}	W/(m ² ·K)	-	-	-	-	-		
	Slab on ground floor type									
	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	-	-	-	-	-		
_	Windows type				-					
	<i>U</i> -value of the windows	U _W	W/(m²·K)	3.33	1.24	2.42	3.14	4.41		
	Shading system type				-					
z	Occupancy density *	O _C	person/m²	on/m ² UNI EN 16798-1 - Table A.19						
GAINS and VENTILATION	Lighting power density *	W _L	W/m²	UNI EN 16798-1 - A.8.3						
NS I	Equipment power density *	W _A	W/m²	m ² UNI EN 16798-1 - A.8.3						
SAI	Type of ventilation			Natural: 100%						
~ >	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30		
	Heating system type	Autonomous: 89%; Centralized: 11%								
	Heating generator	-								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	No limitation						
	Energy carrier	Natural Gas: 72%; Solid biomass: 14%; LPG: 6%; Gas Oil: 4%; Electricity: 3%; District heating: 1%								
	Heating emission sub-system	-								
	Cooling system type				-					
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	,			-					
	DHW system type	Autonomous, coupled with heating: 41%; Autonomous, detached from heating: 32%; Centralized, coupled with heating: 24%; Centralized, detached from heating: 3%								
	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.



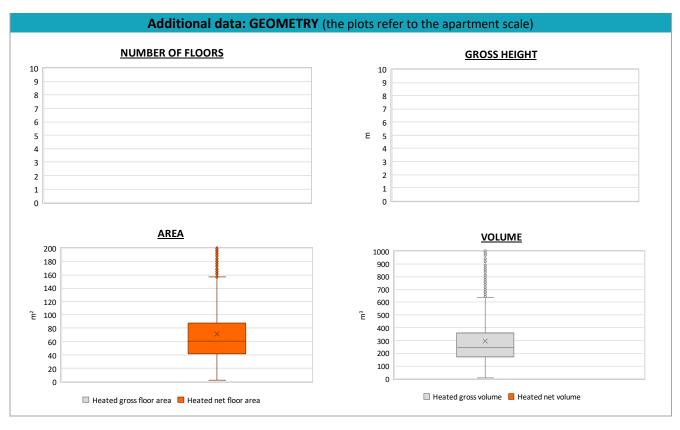
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H _n	m	-	-	-	-	-
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m ²	71.6	46.4	42.1	60.3	88.0
	Heated gross volume	V _{H;g}	m³	293.9	198.6	170.1	245.4	358.0
U m	Heated net volume	V _{H;n}	m³	-	-	-	-	-
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	21.7	8.1	19.0	24.0	26.0
	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	5.6	3.0	3.5	4.9	7.0
	Temperature of DHW	$artheta_{W}$	°C	40.0	0.0	40.0	40.0	40.0
Ė	DHW system power *	P _{W;gen}	kW	16.2	11.8	1.5	23.3	24.6
	* These values refer to the apartment scale							





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