

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Apartments in multi-family block
 RES_APPBLOCK_

 Period of construction:
 1961-1970
 1961-1970_C_LIG

 Climatic zone:
 C
 Number of records:
 7723

Description: Data sources:

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

EPC databases (100%)

Roof slabs: no data available										
	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Q2 (Median	Q3 (third		
BUILDING GEOMETRY	Number of floors		measure	value -	deviation	quartile)	value) -	quartile)		
	Gross height	n _f	- m	-	-	-	-	-		
	Footprint area	H _g	m m²	-	-		-	-		
	Heated gross floor area	A _{footprint}	m ²	-	-	-	-	-		
	Heated gross floor area	A _{H;g}	m ²	-	-	-	-	-		
	Heated gross volume	A _{H;n} V _{H;g}	m ³	_	-		_			
	Heated net volume	i	m ³	-	-	-	-	-		
	Compactness ratio	V _{H;n}	m ⁻¹	0.53	0.39	0.33	0.47	0.68		
	WWR – North orientation	A _{env} /V _{H;g} WWR _N						0.00		
불	WWR – South orientation	WWR _S	-	-	-	-	-	<u>-</u>		
B		-	<u>-</u>					-		
	WWR – East orientation	WWRE	-	-	-	-	-	<u>-</u>		
	WWR – West orientation Window to useful floor area	WWR _W	-	-	-	-	-	-		
	ratio	A_{wi}/A_{use}	-	0.11	0.04	0.09	0.10	0.12		
	Roof type				-					
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²·K)	1.49	0.46	1.40	1.62	1.74		
	External walls type	- п,ир	, , ,	1 21.15	-	21.10	1.02			
핊	<i>U</i> -value of the wall	U _{wl}	W/(m²·K)	1.22	0.33	1.10	1.22	1.35		
99	Slab on ground floor type	- wi /// // 1.22 0.33 1.10 1.22 1.33								
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²·K)	1.46	0.43	1.33	1.54	1.65		
	Windows type	.,	, , ,		-					
	<i>U</i> -value of the windows	Uw	W/(m ² ·K)	4.18	1.25	3.26	4.47	5.20		
	Shading system type				-					
7	Occupancy density *	O _C person/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						
GAINS and ENTILATION	Equipment power density *	W _A								
A P	Type of ventilation	Natural: 99%; Mechanical: 1%								
THERMAL SYSTEMS VE	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30		
	Heating system type			Unknown: 97%; Autonomous: 3%						
	Heating generator	Traditional boiler: 41%; Unknown: 37%; Condensing boiler: 17%; Air-source heat pump: 4%; Fireplace: 1%								
	Daily operating time of the heating system *	t _H	h	10	0	10	10	10		
	Energy carrier	Natural gas: 41%; Unknown: 37%; Electricity and natural gas: 13%; Electricity: 4%; Gas Oil: 3%; Electricity and gas oil: 1%; LPG: 1%								
	Heating emission sub-system	Radiators: 59%; Unknown: 36%; Air Ducts: 2%; Fan-coil: 1%; Radiant panels: 1%; Convectors: 1%								
ΑĀ	Cooling system type	Unknown: 91%; Heat pump air-air: 8%; Heat pump air-water: 1%								
THERI	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type	-								
	DHW generator	Unknown: 60%; Electric boiler: 23%; Condensing boiler: 8%; Natural gas boiler: 5%; Electric heat pump: 4%								
	* These values were not availa	e values were not available in the considered sources, and are thus derived from UNI EN Standards								



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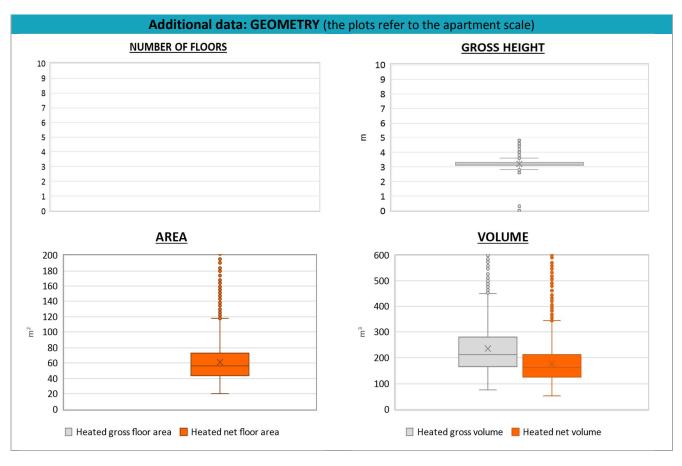
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	H _n	m	3.2	0.2	3.1	3.2	3.3			
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-			
	Heated net floor area	$A_{H;n}$	m²	61.2	27.1	43.4	56.1	73.2			
	Heated gross volume	$V_{H;g}$	m³	237.0	122.5	166.0	213.7	280.3			
	Heated net volume	V _{H;n}	m³	178.9	83.2	125.8	162.1	213.7			
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	20.8	7.5	20.0	24.0	24.0			
	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	-	-	-	-	-			
	Temperature of DHW	θ_{W}	°C	-	-	-	-	-			
Ė	DHW system power *	P _{W;gen}	kW	14.4	11.0	1.2	20.0	24.0			
	* These values refer to the apartment scale										







NOTE: Sample size of the analysed data.

Compactness ratio: 7690; Window to useful floor area ratio: 1787; U-value of the roof: 1103; U-value of the wall: 6642; U-value of the floor: 345; U-value of the windows: 7723; Inter-storey height: 7716; Heated net floor area: 7716; Heated gross volume: 7689; Heated net volume: 7690; Total heating power: 2347; DHW system power: 5319; CO2 Emission: 7620; EP_H_nren: 7680; EP_W_nren: 7458; EP_GL_nren: 7682; EP_H_ren: 5323; EP_W_ren: 4852