

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Entire multifamily blocks
 RES_BLDGS_

 Period of construction:
 1971-1980
 1971-1980_F_LIG

 Climatic zone:
 F
 Number of records:
 21

Description:

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

Data sources: EPC databases (100%)

	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Q2 (Median	Q3 (third			
BUILDING GEOMETRY			measure	value	deviation	quartile)	value)	quartile)			
	Number of floors	n _f	-	-	-	-	-	-			
	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	269.9	516.9	64.2	93.2	161.7			
	Heated gross volume	V _{H;g}	m ³	999.2	1849.6	244.6	364.7	525.4			
	Heated net volume	V _{H;n}	m³	758.9	1479.2	169.1	256.2	446.4			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.79	0.24	0.66	0.80	0.96			
	WWR – North orientation	WWR _N	-	-	-	-	-	-			
	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}	-	-	-	-	-	-			
	Roof type				-						
	<i>U</i> -value of the roof	U _{fl;up}	W/(m ² ·K)	1.76	0.88	1.10	1.80	2.50			
	External walls type			-							
PE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	1.29	0.70	1.04	1.10	1.62			
Ē	Slab on ground floor type			-							
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	-	-	-	-	-			
	Windows type			-							
	<i>U</i> -value of the windows	Uw	W/(m²⋅K)	4.48	1.29	3.76	4.72	5.70			
	Shading system type			-							
7	Occupancy density *	O _C person/m ² UNI EN 16798-1 - Table A.19									
	Lighting power density *	W _L	W/m ²	UNI EN 16798-1 - A.8.3							
≧ کِ	Equipment power density *	W _A	W/m²								
GAINS and VENTILATION	Type of ventilation			Natural: 100%							
Q VE	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30			
	Heating system type		Unknown: 86%; Autonomous: 14%								
THERMAL SYSTEMS	Heating generator	Traditional boiler: 43%; unknown: 33%; Condensing boiler: 14%; Fireplace: 10%									
	Daily operating time of the heating system *	No limitations									
	Energy carrier	Unknown: 47%; Electricity and solid biomass: 14%; Gas Oil: 14%; Natural gas: 10%; LPG: 10%; Electricity and gas oil: 5%									
	Heating emission sub- system	Radiators: 47%; Unknown: 33%; Air Ducts: 10%; Fan-coil: 5%; Radiant panels: 5%									
	Cooling system type	-									
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system										
	DHW system type										
	DHW generator	Unknown: 52%; Electric boiler: 24%; Condensing boiler: 14%; Natural gas boiler: 5%;									
		Electric heat pump: 5% able in the considered sources, and are thus derived from UNI EN Standards									







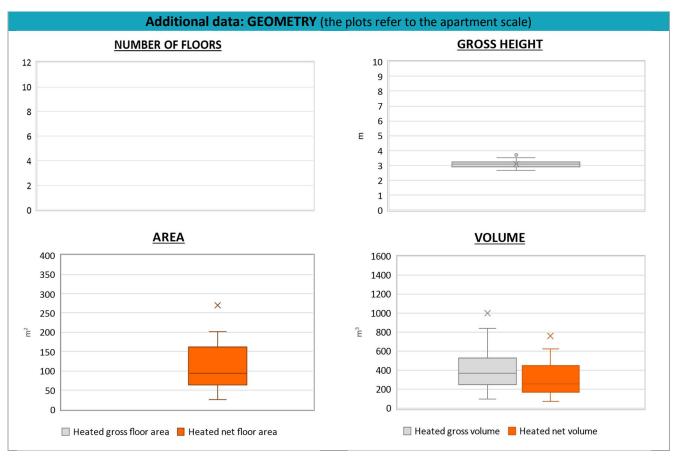
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	H _n	m	3.1	0.2	2.9	3.1	3.2			
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-			
	Heated net floor area	A _{H;n}	m²	-	-	-	-	-			
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m³	-	-	-	-	-			
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or COP _{H;gen}	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	P _{H;gen}	kW	25.9	5.3	24.0	24.0	31.5			
	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	-	-	-	-	-			
	DHW system power *	P _{W;gen}	kW	14.9	13.4	1.2	24.0	26.0			
	* These values refer to the apartment scale										







NOTE: Sample size of the analysed data.

Compactness ratio: 21; U-value of the roof: 9; U-value of the wall: 21; U-value of the windows: 21; Inter-storey height: 21; Heated net floor area: 21; Heated gross volume: 21; Heated net volume: 21; Total heating power: 10; DHW system power: 13; CO2 Emission: 16; EP_H_nren: 21; EP_W_nren: 21; EP_GL_nren: 20; EP_H_ren: 14; EP_W_ren: 16