

 Region:
 Liguria
 Archetype code:

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

 Period of construction:
 2001-_F_LIG

 Climatic zone:
 F
 Number of records:
 13

Description: Data sources:

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

EPC databases (100%)

	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Q2 (Median	Q3 (third			
			measure	value	deviation	quartile)	value)	quartile)			
BUILDING GEOMETRY	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	-	-	-	-	-			
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m³	-	-	-	-	-			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.74	0.29	0.50	0.75	0.92			
	WWR – North orientation	WWR _N	-	-	-	-	-	-			
	WWR – South orientation	<i>WWR</i> _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)	0.99	0.76	0.33	0.69	1.89			
	External walls type				-						
PE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²·K)	0.69	0.38	0.29	0.78	0.93			
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	U _W	W/(m²·K)	3.30	1.20	2.30	3.27	4.50			
	Shading system type				-						
Z	Occupancy density *	O _C	O _C person/m ² UNI EN 16798-1 - Table A.19								
GAINS and VENTILATION	Lighting power density *	W∟	W/m²	UNI EN 16798-1 - A.8.3							
VS a	Equipment power density *	W _A	W/m²	UNI EN 16798-1 - A.8.3							
GAINS and ENTILATION	Type of ventilation			Natural: 100%							
, e	Air exchange rate *	n	h⁻¹	0.30	0.00	0.30	0.30	0.30			
	Heating system type		-								
THERMAL SYSTEMS	Heating generator	Condensing boiler: 38%; Traditional boiler: 31%; unknown: 31%									
	Daily operating time of the heating system *	No limitations									
	Energy carrier	Natural gas: 54%; Unknown: 31%; Electricity and natural gas: 15%									
	Heating emission sub-system	Radiators: 61%; Unknown: 31%; Radiant panels: 8%									
	Cooling system type	-									
	Daily operating time of the cooling system *	tc	h	-	-	-	-	-			
	Cooling emission sub-system	-									
	DHW system type	_									
	DHW generator	Unknown: 54%; Condensing boiler: 31%; Electric boiler: 15%									
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards										







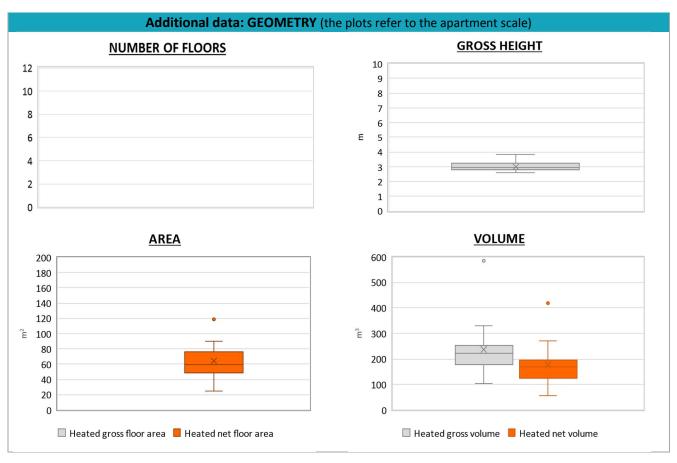
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ADDITIONAL DATA										
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
GEOMETRY: apartments	Inter-storey height	H _n	m	3.0	0.3	2.8	3.0	3.0		
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-		
	Heated net floor area	$A_{H;n}$	m²	64.2	23.9	48.0	59.0	76.3		
	Heated gross volume	V _{H;g}	m³	238.4	119.1	177.3	223.0	253.6		
	Heated net volume	V _{H;n}	m³	178.8	89.6	124.0	169.6	196.8		
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	21.3	6.9	16.5	21.0	26.0		
	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	-	-	-	-	-		
	DHW system power *	P _{W;gen}	kW	15.3	9.7	3.9	18.0	24.0		
* These values refer to the apartment scale										







NOTE: Sample size of the analysed data.

Compactness ratio: 13; U-value of the roof: 8; U-value of the wall: 12; U-value of the windows: 13; Inter-storey height: 13; Heated net floor area: 13; Heated gross volume: 13; Heated net volume: 13; Total heating power: 6; DHW system power: 8; CO2 Emission: 13; EP_H_nren: 11; EP_W_nren: 13; EP_GL_nren: 13; EP_H_ren: 5; EP_W_ren: 7