

 Region:
 Liguria
 Archetype code:

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

 Period of construction:
 1971-1980
 1971-1980_E_LIG

 Climatic zone:
 E
 Number of records:
 763

Description: Data sources:

External walls: no data available

EPC databases (100%)

Roof slabs: no data available										
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Q2 (Median value)	Q3 (third quartile)		
BUILDING GEOMETRY	Number of floors	n _f	-	-	-	-	-	-		
	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}	m ³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m³	-	-	-	-	-		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.59	0.24	0.38	0.61	0.73		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
5	WWR – South orientation	WWR _S	-	-	-	-	-	-		
_	WWR – East orientation	WWRE	-	-	-	-	-	-		
	WWR – West orientation	WWR _W	-	-	-	-	-	-		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.11	0.03	0.09	0.10	0.11		
	Roof type				-					
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²·K)	1.41	0.64	0.98	1.56	1.80		
	External walls type				-					
) PE	<i>U</i> -value of the wall	U _{wl}	W/(m²⋅K)	1.20	0.39	1.05	1.18	1.35		
Ē	Slab on ground floor type	-								
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²⋅K)	1.50	0.37	1.39	1.53	1.67		
	Windows type	-								
	<i>U</i> -value of the windows	Uw	W/(m²⋅K)	4.11	1.19	3.13	4.30	5.00		
	Shading system type	-								
z	Occupancy density *	O _C	person/m²		UN	II EN 16798-1	- Table A.19			
and TIO	Lighting power density *	W∟	W/m²	· ·						
GAINS and VENTILATION	Equipment power density *	W _A W/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	Unknown 94%; Autonomous: 6%								
	Heating generator	Traditional boiler: 42%; Unknown 35%; Condensing boiler: 15%; Fireplace: 6%; Heat exchanger of district heating/cooling: 2%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	14	0	14	14	14		
	Energy carrier	Natural gas: 37%; Unknown: 35%; Electricity and natural gas: 16%; Electricity and solid biomass: 5%; LPG: 2%; Gas Oil: 2%; District heating: 1%; Solid biomass: 1%; Electricity: 1%								
	Heating emission sub-system	Radiators: 62%; Unknown: 35%; Air Ducts: 2%; Radiant panels: 1%								
AL	Cooling system type	Unknown: 99%; Heat pump air-air: 1%								
THERM	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type	-								
	DHW generator	Unknown: 65%; Electric boiler: 13%; Condensing boiler: 12%; Natural gas boiler: 5%; Electric heat pump: 4%; Other: 1%								
	* These values were not availab	ble in the considered sources, and are thus derived from UNI EN Standards								







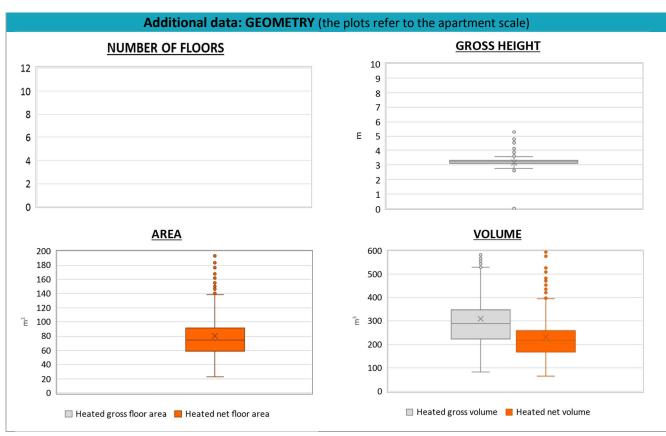
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ADDITIONAL DATA										
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
GEOMETRY: apartments	Inter-storey height	H _n	m	3.2	0.2	3.1	3.2	3.3		
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-		
	Heated net floor area	A _{H;n}	m²	80.2	43.3	58.6	74.7	91.1		
	Heated gross volume	V _{H;g}	m³	309.8	182.3	223.9	288.3	346.5		
	Heated net volume	V _{H;n}	m³	233.1	153.6	168.0	217.3	259.2		
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	22.1	7.6	21.3	24.0	24.3		
	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 *	$P_{ m W;gen}$	kW	17.8	10.5	2.5	23.7	24.0		
* These values refer to the apartment scale										







NOTE: Sample size of the analysed data.

Compactness ratio: 762; Window to useful floor area ratio: 79; U-value of the roof: 126; U-value of the wall: 657; U-value of the floor: 58; U-value of the windows: 763; Inter-storey height: 754; Heated net floor area: 754; Heated gross volume: 753; Heated net volume: 754; Total heating power: 281; DHW system power: 487; CO2 Emission: 735; EP_H_nren: 760; EP_W_nren: 738; EP_GL_nren: 759; EP_H_ren: 559; EP_W_ren: 483