

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Single family houses
 RES_SINGLE_

 Period of construction:
 1961-1970
 1961-1970_F_LIG

 Climatic zone:
 F
 Number of records:
 80

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			
		Symbol .	measure	value	deviation	quartile)	value)	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}	m^3	-	-	-	-	-			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.75	0.26	0.60	0.75	0.88			
	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)	1.45	0.75	0.77	1.69	1.92			
	External walls type				-						
PE	<i>U</i> -value of the wall	U_{wl}	W/(m ² ·K)	1.39	0.71	1.04	1.23	1.89			
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/(m ² ·K)	4.32	1.09	3.49	4.56	5.17			
	Shading system type			-							
-	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							
GAINS and ENTILATIO	Equipment power density *	W _A W/m ² UNI EN 16798-1 - A.8.3									
N E	Type of ventilation	Natural: 100%									
5	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30			
	Heating system type	Unknown: 97%; Autonomous: 3%									
THERMAL SYSTEMS	Heating generator	Unknown: 44%; Traditional boiler: 39%; Fireplace: 14%; Condensing boiler: 3%									
	Daily operating time of the heating system *	No limitations									
	Energy carrier	Unknown: 44%; Natural gas: 23%; Gas Oil: 10%; Electricity and solid biomass: 8%; Solid biomass: 6%; Electricity and natural gas: 5%; LPG: 3%; Electricity and gas oil: 1%									
	Heating emission sub-system	Radiators: 47%; Unknown: 45%; Air Ducts: 5%; Convectors: 1%; Radiant panels: 1%; Fancoil: 1%									
	Cooling system type	-									
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system				-						
	DHW system type										
	DHW generator	Unknown: 61%; Electric boiler: 28%; Electric heat pump: 5%; Natural gas boiler: 3%; Condensing boiler: 3%									
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards										







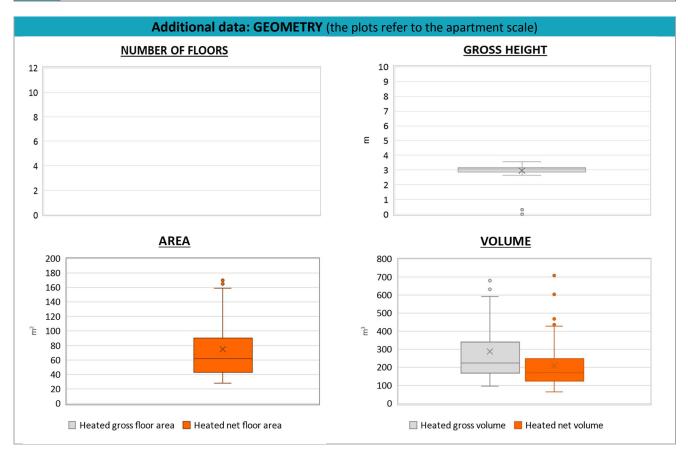
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	H _n	m	3.0	0.2	2.9	3.1	3.2			
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-			
	Heated net floor area	$A_{H;n}$	m²	74.8	43.5	42.6	61.6	90.0			
	Heated gross volume	$V_{H;g}$	m³	287.8	176.7	169.7	222.4	339.8			
0 %	Heated net volume	$V_{H;n}$	m³	206.8	125.0	122.7	170.9	248.0			
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{\sf H;gen}$ or ${\it COP}_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	$P_{H;gen}$	kW	21.6	7.5	15.0	24.0	25.1			
	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	$ heta_{\sf W}$	°C	-	-	-	-	-			
	DHW system power *	P _{W;gen}	kW	11.0	11.9	1.2	1.5	24.0			
	* These values refer to the apa	rtment scale									







NOTE: Sample size of the analysed data.

Compactness ratio: 78; U-value of the roof: 21; U-value of the wall: 69; U-value of the windows: 80; Inter-storey height: 79; Heated net floor area: 79; Heated gross volume: 78; Heated net volume: 78; Total heating power: 30; DHW system power: 45; CO2 Emission: 64; EP_H_nren: 78; EP_W_nren: 78; EP_GL_nren: 77; EP_H_ren: 35; EP_W_ren: 56