

Region:
Liguria
Archetype code:

Building category:
Residential buildings – Apartments in multi-family block
Period of construction:
1981-1990
Climatic zone:
F
Number of records:
21

Description: Data sources:

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

EPC databases (100%)

	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	-	-	-	- quartile)	-	- quartilej			
	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	0.63	0.24	0.47	0.60	0.74			
	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/(m²·K)	-	-	-	-	-			
	External walls type				-						
PE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²·K)	1.06	0.33	0.87	1.10	1.19			
Œ	Slab on ground floor type	-									
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²·K)	-	-	-	-	-			
	Windows type				-						
	<i>U</i> -value of the windows	U_{W}	W/(m²⋅K)	3.80	1.37	2.56	4.52	4.96			
	Shading system type				-						
_ z	Occupancy density *	O _C	O _C person/m ² UNI EN 16798-1 - Table A.19								
and TO	Lighting power density *	W_{L}	W/m²	UNI EN 16798-1 - A.8.3							
NS ILA	Equipment power density *	W _A	W/m²	UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	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	-									
	Heating generator	Unknown: 48%; Traditional boiler: 33%; Fireplace: 19%									
THERMAL SYSTEMS	Daily operating time of the heating system *	No limitations									
	Energy carrier	Unknown: 47%; Natural gas: 14%; Electricity and solid biomass: 14%; Gas Oil: 10%; LPG: 10%; Solid biomass: 5%									
	Heating emission sub-system	Unknown: 47%; Radiators: 43%; Air Ducts: 5%; Fan-coil: 5%									
	Cooling system type	-									
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system	-									
	DHW system type	-									
	DHW generator	Unknown: 56%; Electric boiler: 29%; Natural gas boiler: 10%; Electric heat pump: 5%									
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards										







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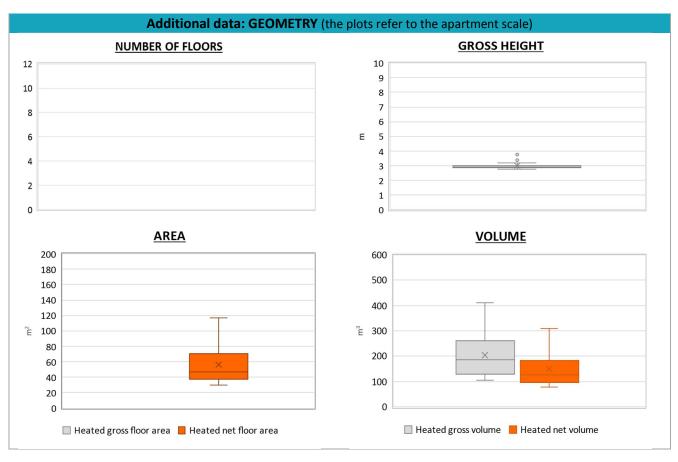
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RES_APPBLOCK_
1981-1990_F_LIG

ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	Hn	m	3.0	0.2	2.9	2.9	3.0			
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-			
	Heated net floor area	$A_{H;n}$	m²	56.8	26.3	37.5	46.5	70.4			
	Heated gross volume	V _{H;g}	m³	203.3	84.8	129.7	187.5	261.4			
	Heated net volume	V _{H;n}	m³	151.5	68.3	96.6	125.6	184.0			
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ extsf{H}; extsf{gen}}$ or $ extsf{COP}_{ extsf{H}; extsf{gen}}$	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	P _{H;gen}	kW	18.1	7.4	9.4	20.6	24.0			
	Cooling efficiency or EER	$\eta_{ extsf{C};gen}$ or $\mathit{EER}_{ extsf{C};gen}$	-	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	6.5	8.3	1.2	1.4	14.5			
	* These values refer to the apa	rtment scale									







NOTE: Sample size of the analysed data.

Compactness ratio: 21; U-value of the wall: 20; 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: 8; DHW system power: 12; CO2 Emission: 18; EP_H_nren: 21; EP_W_nren: 20; EP_GL_nren: 20; EP_H_ren: 10; EP_W_ren: 13