

Description:

Region:LiguriaArchetype code:Building category:Residential buildings – Single family housesRES_SINGLE_Period of construction:1951-19601951-1960_F_LIG

Climatic zone: F Number of records: 48

External walls: no data available

Data sources: 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}	m³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m³	-	-	-	-	-			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.78	0.27	0.55	0.79	0.99			
	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)	1.57	0.68	1.10	1.63	2.02			
	External walls type				-						
)PE	<i>U</i> -value of the wall	U _{wl}	W/(m²⋅K)	1.30	0.58	1.00	1.19	1.55			
ĒĽ	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)	4.04	1.23	2.87	4.42	5.05			
	Shading system type	-									
z	Occupancy density *	O _C person/m ² UNI EN 16798-1 - Table A.19									
GAINS and VENTILATION	Lighting power density *	W _L									
GAINS and ENTILATIO	Equipment power density *	W _A W/m ² UNI EN 16798-1 - A.8.3									
SAI	Type of ventilation		Natural: 98%; Mechanical: 2%								
~ >	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30			
THERMAL SYSTEMS	Heating system type	Unknown: 98%; Autonomous: 2%									
	Heating generator	Unknown: 61%; Traditional boiler: 21%; Fireplace: 10%; Condensing boiler: 4%; Air-source heat pump: 4%									
	Daily operating time of the heating system *	No limitations									
	Energy carrier	Unknown: 61%; Natural gas: 17%; Solid biomass: 8%; Gas Oil: 4%; Electricity: 4%; Electricity and solid biomass: 2%; LPG: 2%; Electricity and natural gas: 2%									
	Heating emission sub-system	Unknown: 61%; Radiators: 27%; Air Ducts: 4%; Convectors: 2%; Radiant panels: 2%; Fan- coil: 2%; Air Heater: 2%									
	Cooling system type	Unknown: 98%; Heat pump air-air: 2%									
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system				-						
	DHW system type	-									
	DHW generator	Unknown: 65%; Electric boiler: 23%; Electric heat pump: 8%; Condensing boiler: 4%									
		able in the considered sources, and are thus derived from UNI EN Standards									
	These values were not available in the considered sources, and are thus derived from ON EN Statutatus										







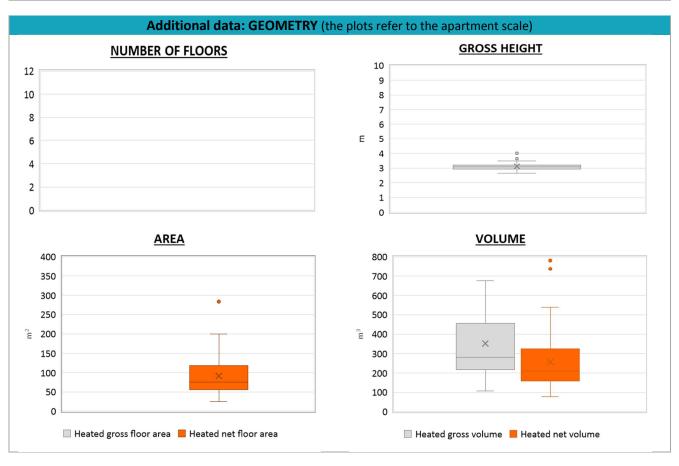
 Region:
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 Archetype code:

 Building category:
 Residential buildings – Single family houses
 RES_SINGLE_

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ADDITIONAL DATA											
	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third			
			measure	value	deviation	quartile)	value	quartile)			
GEOMETRY: apartments	Inter-storey height	<i>H</i> _n	m	3.1	0.3	2.9	3.1	3.2			
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-			
	Heated net floor area	$A_{H;n}$	m²	91.5	51.8	55.9	75.9	118.9			
	Heated gross volume	$V_{H;g}$	m³	350.5	215.7	217.6	282.1	454.7			
0 %	Heated net volume	$V_{H;n}$	m³	256.5	149.9	158.1	210.1	326.2			
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	20.8	6.6	15.1	23.9	24.0			
	Cooling efficiency or EER	$\eta_{ extsf{C};gen}$ or $ extsf{\textit{EER}}_{ extsf{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 *	$P_{ m W;gen}$	kW	12.7	11.2	1.5	14.0	24.0			
	* These values refer to the apa	rtment scale									







NOTE: Sample size of the analysed data.

Compactness ratio: 48; U-value of the roof: 16; U-value of the wall: 47; U-value of the windows: 48; Inter-storey height: 48; Heated net floor area: 48; Heated gross volume: 48; Heated net volume: 48; Total heating power: 12; DHW system power: 28; CO2 Emission: 46; EP_H_nren: 46; EP_W_nren: 45; EP_GL_nren: 47; EP_H_ren: 24; EP_W_ren: 32