

Description:

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Entire multifamily blocks
 RES_BLDGS_

 Period of construction:
 1971-1980
 1971-1980_E_LIG

Climatic zone: E Number of records: 83

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

Data sources: EPC databases (100%)

	Doto	Cumbal	linit of	Maan	Chandaud	O1 /finch	O2 /Modian	02 /4bind			
	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/	-	- quartile,			
	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	148.6	332.2	70.0	95.0	128.1			
	Heated gross volume	V _{H;g}	m ³	554.9	1098.3	266.9	374.0	491.6			
	Heated net volume	V _{H;n}	m ³	430.8	970.8	194.6	290.5	364.2			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.80	0.27	0.61	0.86	1.01			
	WWR – North orientation	WWR _N	-	-	-	-	-	-			
悥	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)	1.62	0.60	1.29	1.79	1.95			
	External walls type				-						
PE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	1.22	0.45	1.02	1.22	1.48			
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	Uw	W/(m²·K)	4.11	1.19	3.18	4.39	4.94			
	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∟	W _L W/m ² UNI EN 16798-1 - A.8.3								
NS FI	Equipment power density *	W _A W/m ² UNI EN 16798-1 - A.8.3									
GAI	Type of ventilation			Natural: 99%; Mechanical: 1%							
~ >	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30			
	Heating system type	Unknown: 96%; Autonomous: 4%									
	Heating generator	Unknown: 50%; Traditional boiler: 28%; Fireplace: 12%; Condensing boiler: 8%; Air-source heat pump: 1%									
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	14	0	14	14	14			
	Energy carrier	Unknown: 51%; Natural gas: 17%; Electricity and solid biomass: 8%; Electricity and natural gas: 8%; Gas Oil: 5%; Solid biomass: 4%; Electricity and gas oil: 4%; Electricity: 2%; LPG: 1%									
	Heating emission sub- system	Unknown: 49%; Radiators: 45%; Air Ducts: 5%; Convectors: 1%									
	Cooling system type	Unknown: 97%; Heat pump air-air: 2%; Heat pump air-water: 1%									
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system										
	DHW system type	-									
	DHW generator	Unknown: 57%; Electric boiler: 19%; Natural gas boiler: 10%; Condensing boiler: 8%; Electric heat pump: 6%									
	* These values were not availa	able in the considered sources, and are thus derived from UNI EN Standards									
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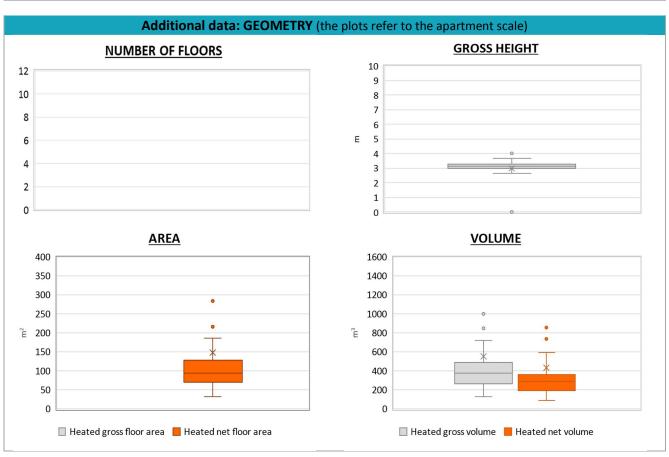
Climatic zone:

E

Number of records:

83

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	3.2	0.2	3.0	3.1	3.3			
	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	-	-	-	-	-			
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ ext{H;gen}}$ or $ ext{ extit{COP}}_{ ext{H;gen}}$	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	$P_{H;gen}$	kW	24.4	9.3	20.8	24.0	29.5			
	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	16.2	11.8	1.5	20.6	24.8			
	* These values refer to the apartment scale										



3





NOTE: Sample size of the analysed data.

Compactness ratio: 79; U-value of the roof: 30; U-value of the wall: 79; U-value of the windows: 83; Inter-storey height: 79; Heated net floor area: 79; Heated gross volume: 79; Heated net volume: 79; Total heating power: 33; DHW system power: 62; CO2 Emission: 75; EP_H_nren: 83; EP_W_nren: 77; EP_GL_nren: 83; EP_H_ren: 55; EP_W_ren: 50