

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Single family houses
 RES_SINGLE_

 Period of construction:
 1991-2000
 1991-2000_F_LIG

 Climatic zone:
 F
 Number of records:
 6

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		
BUILDING GEOMETRY	Number of floors	n _f	measure -	value	deviation	quartile)	value)	quartile)		
	Gross height	H _g	m	_	_		_	_		
	Footprint area	A _{footprint}	m²	_	_		_	_		
	Heated gross floor area	A _{H;g}	m ²	-	_	-	_	_		
	Heated net floor area	A _{H;n}	m ²	_	_	<u> </u>	_	_		
	Heated gross volume	V _{H;g}	m³	_	-	_	-	-		
	Heated net volume	V _{H;n}	m ³	_	_		_	_		
	Compactness ratio		m ⁻¹	0.71	0.31	0.45	0.72	1.00		
	WWR – North orientation	A _{env} /V _{H;g} WWR _N	-	-	0.51	0.45	0.72	1.00		
	WWR – South orientation		<u> </u>	_	_		-			
		WWR _S		-	-		-	-		
	WWR – East orientation	WWR _E		-	-			-		
	WWR – West orientation Window to useful floor area ratio	WWR _W A_{wi}/A_{use}	-	-	-	-	-	-		
	Roof type				_					
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²⋅K)	1.35	1.11	0.34	1.18	2.54		
	External walls type	,ap	,,,,,,		-					
PE	<i>U</i> -value of the wall	U _{wl}	W/(m ² ·K)	1.16	0.96	0.43	0.87	2.17		
ENVELOPE	Slab on ground floor type		,, ,	1.10	-	01.10	0.07			
	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²⋅K)	-	-	-	-	-		
	Windows type	- 1,,11	,, ,	l	-		1			
	<i>U</i> -value of the windows	U _W	W/(m²⋅K)	4.42	0.68	3.76	4.46	5.07		
	Shading system type			ı	-		- 1			
7	Occupancy density *	O _C person/m ² UNI EN 16798-1 - Table A.19								
E Ö	Lighting power density *	W _L	W/m ²	UNI EN 16798-1 - A.8.3						
GAINS and VENTILATION	Equipment power density *	W _A	W/m²	UNI EN 16798-1 - A.8.3						
A E	Type of ventilation		Natural: 100%							
, G	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30		
	Heating system type	-								
	Heating generator	Traditional boiler: 34%; Fireplace: 33%; Unknown: 33%								
THERMAL SYSTEMS	Daily operating time of the heating system *	No limitations								
	Energy carrier	Unknown: 32%; Gas Oil: 17%; Electricity and natural gas: 17%; Electricity and solid biomass: 17%; Solid biomass: 17%								
	Heating emission sub-system	Radiators: 67%; Unknown: 33%								
	Cooling system type	-								
	Daily operating time of the cooling system *	tc	h	-	-	-	-	-		
	Cooling emission sub-system				-					
	DHW system type	-								
	DHW generator	Electric boiler: 50%; Unknown: 50%								
	* These values were not availal	able in the considered sources, and are thus derived from UNI EN Standards								





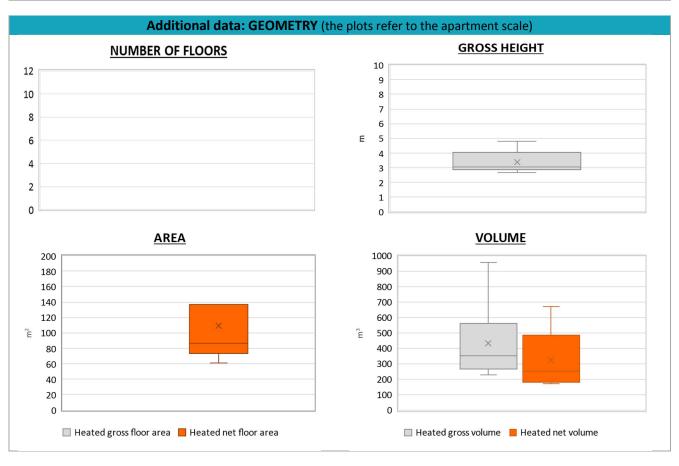


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ADDITIONAL DATA											
	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third			
			measure	value	deviation	quartile)	value	quartile)			
GEOMETRY: apartments	Inter-storey height	Hn	m	3.3	0.7	2.9	3.1	3.7			
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-			
	Heated net floor area	$A_{H;n}$	m²	109.2	66.8	73.0	86.8	136.4			
	Heated gross volume	$V_{H;g}$	m³	433.8	266.4	267.4	353.5	562.0			
O 10	Heated net volume	$V_{H;n}$	m³	326.9	192.4	179.9	254.7	487.3			
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{\sf H;gen}$ or $ extit{COP}_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	$P_{H;gen}$	kW	20.2	9.5	10.0	22.0	28.7			
	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	-	-	-	-	-			
Ė	DHW system power *	$P_{ m W;gen}$	kW	11.4	13.8	1.4	1.5	26.4			
	* These values refer to the apartment scale										







NOTE: Sample size of the analysed data.

Compactness ratio: 6; U-value of the roof: 3; U-value of the wall: 4; U-value of the windows: 6; Inter-storey height: 6; Heated net floor area: 6; Heated gross volume: 6; Heated net volume: 6; Total heating power: 3; DHW system power: 5; CO2 Emission: 5; EP_H_nren: 6; EP_W_nren: 6; EP_GL_nren: 6; EP_W_ren: 5