

Region:
Liguria
Archetype code:

Building category:
Residential buildings – Single family houses
RES_SINGLE_
2001-_E_LIG

Climatic zone:
E
Number of records: 203

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	D		measure	value	deviation	quartile)	value)	quartile)			
	Number of floors	n _f	-	-	-	-	-	-			
	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}	m²	-	-	-	-	-			
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m ³	-	-	-	-	-			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.79	0.30	0.62	0.80	0.97			
	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}	-	0.12	0.03	0.09	0.12	0.15			
PE	Roof type				-						
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²·K)	0.68	0.55	0.28	0.44	0.90			
	External walls type				-		'				
	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²·K)	0.73	0.59	0.29	0.50	1.00			
EC	Slab on ground floor type										
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	1.13	0.68	0.44	1.18	1.51			
	Windows type	-									
	<i>U</i> -value of the windows	U _W	W/(m²·K)	2.91	1.14	2.04	2.78	3.66			
	Shading system type		-								
7	Occupancy density *	Oc	O _C person/m ² UNI EN 16798-1 - Table A.19								
GAINS and VENTILATION	Lighting power density *	W _L	W/m ² UNI EN 16798-1 - A.8.3								
GAINS and ENTILATIO	Equipment power density *	W _A									
Ž E	Type of ventilation		,	Natural: 99%; Mechanical: 1%							
ο <u>Β</u>	Air exchange rate *	n	h-1	0.30 0.00 0.30 0.30 0.30							
	Heating system type		l .	Unknown: 95%; Autonomous: 5%							
THERMAL SYSTEMS	Heating generator	nknown: 44%; Traditional boiler: 31%; Condensing boiler: 17%; Fireplace: 5%; Air-source heat pump: 2%; Heat exchanger of district heating/cooling: 1%									
	Daily operating time of the heating system *	t _H	h	14	0	14	14	14			
	Energy carrier	Unknown: 46%; Natural gas: 25%; Electricity and natural gas: 12%; LPG: 7%; Electricity and solid biomass: 5%; Solid biomass: 2%; Electricity: 2%; Natural gas and solid biomass: 1%									
	Heating emission sub-system	Radiators: 46%; Unknown: 41%; Radiant panels: 10%; Fan-coil: 2%; Air Ducts: 1%									
	Cooling system type	Unknown: 99%; Heat pump air-air: 1%									
	Daily operating time of the cooling system *	tc	h	-	-	-	-	-			
	Cooling emission sub-system				-						
	DHW system type				-						
	DHW generator	Unknown: 72%; Condensing boiler: 20%; Electric boiler: 5%; Natural gas boiler: 3%									
		ilable in the considered sources, and are thus derived from UNI EN Standards									







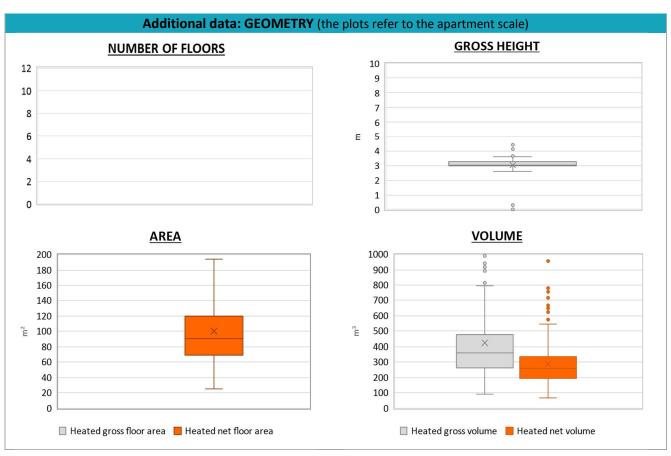
 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Single family houses
 RES_SINGLE_

 Period of construction:
 2001 2001-_E_LIG

 Climatic zone:
 E
 Number of records:
 203

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	3.2	0.3	3.0	3.1	3.3			
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-			
	Heated net floor area	A _{H;n}	m²	100.7	52.0	68.9	90.8	120.0			
	Heated gross volume	V _{H;g}	m³	425.9	365.8	260.3	361.5	477.3			
	Heated net volume	V _{H;n}	m³	286.8	149.9	192.7	257.1	336.0			
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or <i>COP</i> H;gen	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	P _{H;gen}	kW	24.7	6.1	24.0	24.0	27.8			
	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	θ_{W}	°C	-	-	-	-	-			
Ė	DHW system power *	P _{W;gen}	kW	22.6	8.8	24.0	24.0	26.5			
	* These values refer to the apa	rtment scale									







NOTE: Sample size of the analysed data.

Compactness ratio: 194; Window to useful floor area ratio: 22; U-value of the roof: 89; U-value of the wall: 189; U-value of the floor: 24; U-value of the windows: 203; Inter-storey height: 196; Heated net floor area: 196; Heated gross volume: 194; Heated net volume: 194; Total heating power: 93; DHW system power: 138; CO2 Emission: 197; EP_H_nren: 200; EP_W_nren: 187; EP_GL_nren: 198; EP_H_ren: 147; EP_W_ren: 131