

Region:
Liguria
Archetype code:

Building category:
Residential buildings – Entire multifamily blocks
RES_BLDGS_
1991-2000_C_LIG

Climatic zone:
C
Number of records: 50

Description:

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

Data sources: 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}	m ²	_	_		-	_		
	Heated gross floor area	A _{H;g}	m ²	_	_		_	_		
	Heated net floor area	A _{H;n}	m ²	210.3	550.5	52.4	93.5	145.6		
	Heated gross volume	V _{H;g}	m³	901.0	2516.9	189.8	369.9	551.4		
	Heated net volume	V _{H;n}	m³	740.0	2316.9	139.8	255.0	399.8		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.81	0.29	0.66	0.79	0.99		
	WWR – North orientation	WWR _N	-	- 0.61	- 0.23	-	- 0.79	-		
	WWR – South orientation	WWR _S	-		-		-			
	WWR – East orientation	WWR _E	-	-	-	-	-	-		
	WWR – West orientation	WWR _W		_	-	<u> </u>	-	-		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	-	-	-	-	-		
PE	Roof type	-								
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²⋅K)	0.99	0.55	0.55	0.86	1.36		
	External walls type	,	, ,		-					
	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²⋅K)	0.90	0.44	0.56	0.79	1.27		
EFO	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)	3.75	1.13	2.84	3.59	4.90		
	Shading system type		, ,		_					
7	Occupancy density *	O _C	<i>O</i> _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						
VS a	Equipment power density *	W _A	W/m²							
GAINS and ENTILATION	Type of ventilation		Natural: 92%; Mechanical: 8%							
0 B	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: 40%; Condensing boiler: 6%; Air-source heat pump: 4%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	10	0	10	10	10		
	Energy carrier	Unknown: 50%; Electricity and natural gas: 18%; Natural gas: 14%; LPG: 12%; Electricity: 4%; Electricity and solid biomass: 2%								
	Heating emission sub-system	Unknown: 50%; Radiators: 42%; Air Ducts: 4%; Fan-coil: 2%; Radiant panels: 2%								
	Cooling system type	Unknown: 84%; Heat pump air-air: 12%; Heat pump air-water: 2%; Other: 2%								
	Daily operating time of the cooling system *	tc	h	-	-	-	-	-		
	Cooling emission sub-system				-					
	DHW system type	-								
	DHW generator	Unknown: 84%; Electric boiler: 8%; Solar thermal: 6%; Condensing boiler: 2%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									







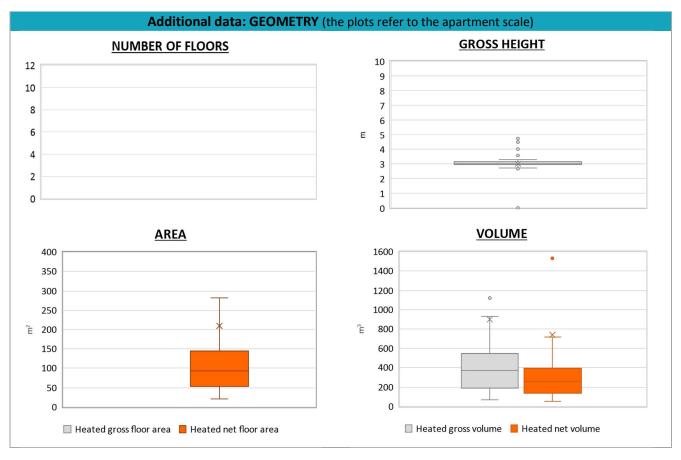
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ADDITIONAL DATA										
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
GEOMETRY: apartments	Inter-storey height	H _n	m	3.1	0.4	3.0	3.0	3.1		
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-		
	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	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	43.1	55.9	18.0	24.2	31.3		
	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	-	-	-	-	-		
	DHW system power *	$P_{ m W;gen}$	kW	22.1	9.7	21.8	24.0	27.7		
	* These values refer to the apartment scale									





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