

**Description:** 

Region:LiguriaArchetype code:Building category:Residential buildings – Entire multifamily blocksRES\_BLDGS\_Period of construction:1961-19701961-1970\_C\_LIG

Climatic zone: C Number of records: 254

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		
			measure	value	deviation	quartile)	value)	quartile)		
BUILDING GEOMETRY	Number of floors	n <sub>f</sub>	-	-	-	-	-	-		
	Gross height	Hg	m	-	-	-	-	-		
	Footprint area	A <sub>footprint</sub>	m²	-	-	-	-	-		
	Heated gross floor area	A <sub>H;g</sub>	m²	-	-	-	-	-		
	Heated net floor area	A <sub>H;n</sub>	m²	241.2	757.4	46.6	68.8	103.3		
	Heated gross volume	V <sub>H;g</sub>	m³	979.7	3230.3	181.6	254.1	416.2		
	Heated net volume	V <sub>H;n</sub>	m³	700.1	2374.5	134.6	187.3	291.8		
	Compactness ratio	$A_{\rm env}/V_{\rm H;g}$	m⁻¹	0.63	0.29	0.38	0.58	0.86		
9	WWR – North orientation	WWR <sub>N</sub>	-	-	-	-	-	-		
BG	WWR – South orientation	WWR <sub>S</sub>	-	-	-	-	-	-		
	WWR – East orientation	WWR <sub>E</sub>	-	-	-	-	-	-		
	WWR – West orientation	WWR <sub>W</sub>	-	-	-	-	-	-		
	Window to useful floor area ratio	A <sub>wi</sub> /A <sub>use</sub>	-	0.11	0.05	0.09	0.10	0.12		
	Roof type				-					
	<i>U</i> -value of the roof	U <sub>fl;up</sub>	W/(m²·K)	1.36	0.65	0.85	1.53	1.73		
	External walls type				-					
F	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²⋅K)	1.25	0.47	1.10	1.19	1.36		
Ë	Slab on ground floor type	-								
ENVELOPE	<i>U</i> -value of the floor	U <sub>fl;lw</sub>	W/(m²·K)	1.76	0.66	1.48	1.61	2.21		
	Windows type				-					
	<i>U</i> -value of the windows	$U_{W}$	W/(m²⋅K)	4.19	1.37	3.13	4.53	5.42		
	Shading system type				-					
_ z	Occupancy density *	O <sub>C</sub>	person/m²	n/m <sup>2</sup> UNI EN 16798-1 - Table A.19						
and TIO	Lighting power density *	$W_{L}$	W/m²	UNI EN 16798-1 - A.8.3						
NS FILA	Equipment power density *	$W_{A}$	W/m <sup>2</sup> UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation			Natural: 98%; Mechanical: 2%						
>	Air exchange rate *	n	h <sup>-1</sup>	0.30	0.00	0.30	0.30	0.30		
	Heating system type	Unknown: 96%; Autonomous: 3%; Centralized: 1%								
	Heating generator	Unknown: 54%; Traditional boiler: 33%; Condensing boiler: 8%; Air-source heat pump: 5%								
	Daily operating time of the heating system *	t <sub>H</sub>	h	10	0	10	10	10		
THERMAL SYSTEMS	Energy carrier	Unknown: 53%; Natural gas: 22%; Electricity and natural gas: 12%; Electricity: 6%; Gas Oil: 4%; LPG: 2%; Electricity and gas oil: 1%								
	Heating emission sub-system	Unknown: 52%; Radiators: 41%; Fan-coil: 3%; Air Ducts: 2%; Radiant panels: 1%; Convectors: 1%								
<u>₹</u>	Cooling system type	Unknown: 85%; Heat pump air-air: 14%; Heat pump air-water: 1%								
THERM	Daily operating time of the cooling system *	t <sub>C</sub>	h	-	-	-	-	-		
	Cooling emission sub-system									
	DHW system type				-					
	DHW generator	Unknown: 71%; Electric boiler: 16%; Condensing boiler: 7%; Electric heat pump: 3%; Natural gas boiler: 2%; Solar thermal: 1%								
		ere not available in the considered sources, and are thus derived from UNI EN Standards								



Region:

Building category:
Residential buildings – Entire multifamily blocks

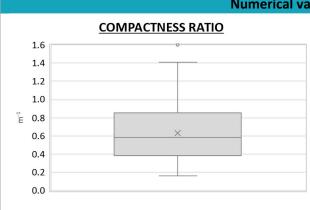
Period of construction:
Climatic zone:

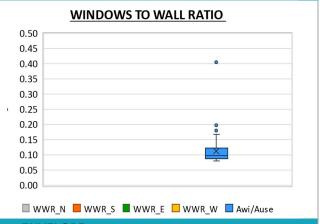
C Number of records:

Numerical variables – GEOMETRY

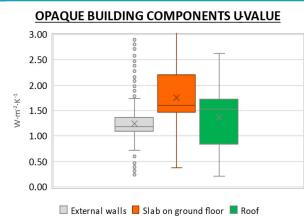
Archetype code:

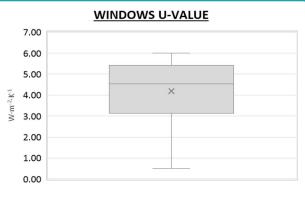
RES\_BLDGS\_
1961-1970\_C\_LIG



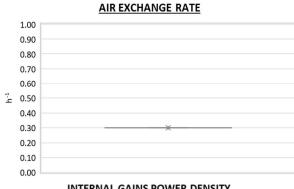


## Numerical variables – ENVELOPE

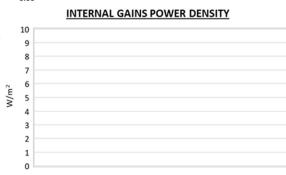




## Numerical variables - GAINS, VENTILATION and SYSTEMS USAGE (Standard Values)







(c) (i) (ii)



The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.



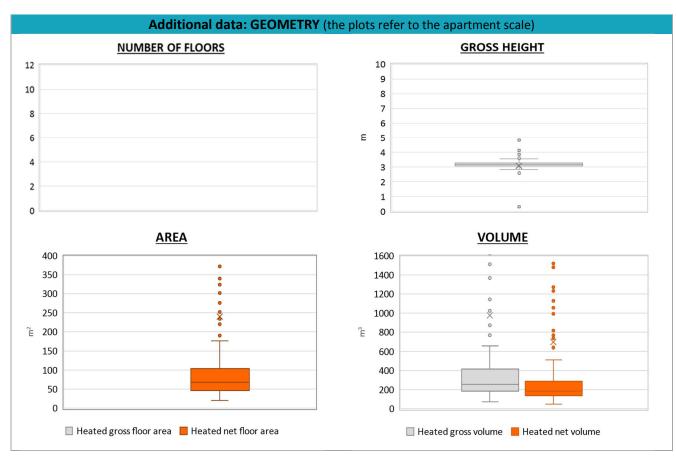
 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Entire multifamily blocks
 RES\_BLDGS\_

 Period of construction:
 1961-1970
 1961-1970\_C\_LIG

 Climatic zone:
 C
 Number of records:
 254

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	0.2	3.1	3.2	3.3			
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-			
	Heated net floor area	$A_{H;n}$	m²	-	-	-	-	-			
	Heated gross volume	V <sub>H;g</sub>	m³	-	-	-	-	-			
	Heated net volume	V <sub>H;n</sub>	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 <sub>H;gen</sub>	kW	33.6	63.4	20.0	24.0	25.0			
	Cooling efficiency or EER	η <sub>C;gen</sub> or <i>EER</i> <sub>C;gen</sub>	-	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	17.5	10.2	2.2	23.5	24.0			
	* These values refer to the apartment scale										







NOTE: Sample size of the analysed data.

Compactness ratio: 244; Window to useful floor area ratio: 54; U-value of the roof: 90; U-value of the wall: 232; U-value of the floor: 25; U-value of the windows: 254; Inter-storey height: 254; Heated net floor area: 254; Heated gross volume: 244; Heated net volume: 244; Total heating power: 91; DHW system power: 173; CO2 Emission: 245; EP\_H\_nren: 251; EP\_W\_nren: 235; EP\_GL\_nren: 251; EP\_H\_ren: 201; EP\_W\_ren: 170