

Region:LiguriaBuilding category:Residential b1981981-1990Climatic zone:E				Archetype code: RES_BLDGS_							
		ouildings – E	ntire multifam								
				1981-1990_E_LIG							
		Numbe			of records:	64					
	<b>tion:</b> <u>l walls:</u> no data av <u>lbs:</u> no data availa						I	<b>Data s</b> e EPC databa	ources: ses (100%)		
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Q2 (Median value)	Q3 (thirc quartile)		
	Number of floors		n <sub>f</sub>	-	-	-		-	quartite,		
	Gross height		H <sub>g</sub>	m	-	-	-		_		
	Footprint area		A <sub>footprint</sub>	m <sup>2</sup>	-	_	_	_	_		
	Heated gross floor area		A <sub>H;g</sub>	m <sup>2</sup>	-	_	_	_	_		
ΓRΥ	Heated net floor area		A <sub>H;n</sub>	m <sup>2</sup>	266.6	554.7	62.4	87.5	150.6		
<b>N</b>	Heated gross volume		V <sub>H;g</sub>	m <sup>3</sup>	1081.9	2465.0	232.0	317.7	495.0		
<u>Ö</u>	Heated net volume		V <sub>H;n</sub>	m <sup>3</sup>	872.7	2071.4	166.6	234.3	379.7		
5	Compactness ratio		A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.73	0.26	0.51	0.71	0.88		
Building geometry	WWR – North c		WWR <sub>N</sub>	-	-	-	-	-	-		
In l	WWR – South orientation		WWRs	-	-	_	_	-			
8	WWR – East ori		WWRE	-	-	_	-	-			
	WWR – West orientation		WWRw	-	-	_	_	-			
	Window to useful floor area ratio		A <sub>wi</sub> /A <sub>use</sub>	-	0.12	0.04	0.09	0.11	0.12		
	Roof type					-	1				
	U-value of the r	oof	U <sub>fl;up</sub>	W/(m²·K)	1.32	0.69	0.67	1.66	1.82		
	External walls t	ype	iijap			-					
ENVELOPE	<i>U</i> -value of the wall		U <sub>wl</sub>	W/(m²·K)	1.24	0.53	1.09	1.18	1.33		
	Slab on ground floor type				1	-					
	U-value of the floor		U <sub>fl;lw</sub>	W/(m²·K)	1.45	0.60	1.19	1.52	2.02		
	Windows type				1	-	1	1			
	U-value of the windows		Uw	W/(m²·K)	3.98	1.23	3.15	4.29	5.00		
	Shading system type					-					
7	Occupancy den		Oc person/m <sup>2</sup> UNI EN 16798-1 - Table A.19								
	Lighting power density *		WL								
₹	Equipment power density *		WA W/m² UNI EN 16798-1 - A.8.3								
	Type of ventilation				Nati	ural: 98%; Me	echanical: 2%				
´ >	Air exchange rate *		n	h-1	0.30	0.00	0.30	0.30	0.30		
	Heating system	Heating system type		Unknown: 95%; Autonomous: 5%							
THERMAL SYSTEMS	Heating generator		Unknown: 47%; Traditional boiler: 39%; Fireplace: 6%; Condensing boiler: 5%; Air-source heat pump: 3%								
	Daily operating time of the heating system *		t <sub>H</sub>	h	14	0	14	14	14		
	Energy carrier		Unknown: 51%; Natural gas: 23%; Electricity and natural gas: 9%; Electricity and solid biomass: 6%; Electricity: 3%; Gas Oil: 2%; Solid biomass: 2%; Electricity and gas oil: 2%; LPG: 2%								
	Heating emission sub- system		Unknown: 47%; Radiators: 44%; Air Ducts: 3%; Radiant panels: 3%; Fan-coil: 3%								
	Cooling system type		Unknown: 94%; Heat pump air-air: 6%								
	Daily operating time of the cooling system *		t <sub>C</sub>	h	-	-	-	-	-		
	Cooling emission sub-system					-					
	DHW system type		-								
	DHW generator		Unknown: 76%; Electric boiler: 9%; Condensing boiler: 8%; Natural gas boiler: 5%; Electr heat pump: 2%								

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. Residential buildings – Entire multifamily blocks – 1981-1990 – Zone E – Italy

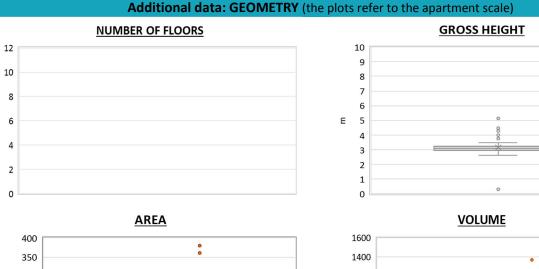




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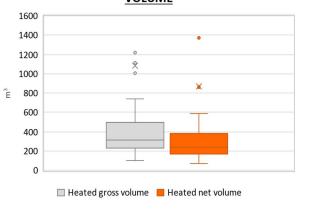


Region:		Liguria			Archetype code:						
Building category:		Residential b	uildings – Enti		RES_ BLDGS_						
198		1981-1990			1981-1990_E_LIG						
Climatic zone:		E		Number of records: 64							
ADDITIONAL DATA											
GEOMETRY: apartments	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
	Inter-storey height		Hn	m	3.2	0.4	3.0	3.1	3.3		
	Heated gross floor area		A <sub>H;g</sub>	m²	-	-	-	-	-		
	Heated net floor area		A <sub>H;n</sub>	m²	-	-	-	-	-		
	Heated gross volume		V <sub>H;g</sub>	m <sup>3</sup>	-	-	-	-	-		
	Heated net volume		V <sub>H;n</sub>	m <sup>3</sup>	-	-	-	-	-		
THERMAL SYSTEMS	Heating efficiency or COP		η <sub>H;gen</sub> or COP <sub>H;gen</sub>	-	This value has to be retrieved from suitable datasheets						
	Total heating power *		P <sub>H;gen</sub>	kW	40.2	55.4	23.0	24.4	30.1		
	Cooling efficiency or EER		η <sub>C;gen</sub> or EER <sub>C;gen</sub>	-	This value has to be retrieved from suitable datasheets						
	Total cooling power *		P <sub>C;gen</sub>	kW	-	-	-	-	-		
	Temperature of DHW		$\theta_{W}$	°C	-	-	-	-	-		
	DHW system power *		P <sub>W;gen</sub>	kW	19.4	11.2	8.6	24.0	27.2		
	* These values refer to the apartment scale										



×

🔲 Heated gross floor area 📕 Heated net floor area





300

250

150 100

50

0

~E 200

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NOTE: Sample size of the analysed data.

Compactness ratio: 64; Window to useful floor area ratio: 17; U-value of the roof: 29; U-value of the wall: 58; U-value of the floor: 10; U-value of the windows: 64; Inter-storey height: 64; Heated net floor area: 64; Heated gross volume: 63; Heated net volume: 63; Total heating power: 33; DHW system power: 39; CO2 Emission: 62; EP\_H\_nren: 63; EP\_W\_nren: 57; EP\_GL\_nren: 63; EP\_H\_ren: 49; EP\_W\_ren: 26

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