

Region:		Liguria						Archetype code:			
		Residential b	uildings – E	ntire multifam	RES B	RES_ BLDGS_ 1981-1990_F_LIG					
		1981-1990									
Climatic zone: F		Number of records: 9									
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		
				measure	value	deviation	quartile)	value)	quartile)		
	Number of floors		nf	-	-	-	-	-	-		
	Gross height		Hg	m	-	-	-	-	-		
	Footprint area		A <sub>footprint</sub>	m²	-	-	-	-	-		
≿	Heated gross floor area		A <sub>H;g</sub>	m <sup>2</sup>	-	-	-	-	-		
BUILDING GEOMETRY	Heated net floor area		A <sub>H;n</sub>	m²	122.0	97.8	54.4	63.5	195.8		
N	Heated gross volume		V <sub>H;g</sub>	m <sup>3</sup>	501.9	401.9	213.2	255.3	887.0		
B	Heated net volu		V <sub>H;n</sub>	m <sup>3</sup>	362.6	299.8	146.2	176.4	653.6		
<b>D</b> N	Compactness ratio		A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.92	0.21	0.74	0.80	1.16		
9	WWR – North orientation		WWR <sub>N</sub>	-	-	-	-	-	-		
BUI	WWR – South o	rientation	WWRs	-	-	-	-	-	-		
	WWR – East ori	entation	WWR <sub>E</sub> WWR <sub>W</sub>	-	-	-	-	-	-		
	WWR – West or	WWR – West orientation		-	-	-	-	-	-		
	Window to useful floor area ratio		A <sub>wi</sub> /A <sub>use</sub>	-	-	-	-	-	-		
	Roof type					-					
	U-value of the r	U-value of the roof		W/(m²⋅K)	-	-	-	-	-		
	External walls ty	уре				-					
ENVELOPE	U-value of the v	vall	U <sub>wl</sub>	W/(m²⋅K)	1.57	0.50	1.19	1.43	2.04		
/EL(	Slab on ground	floor type				-					
EN	U-value of the floor		U <sub>fl;lw</sub>	W/(m²⋅K)	-	-	-	-	-		
	Windows type					-					
	U-value of the v	vindows	Uw	W/(m²⋅K)	4.23	1.66	2.32	4.98	5.53		
	Shading system	type		-							
z	Occupancy dens	Occupancy density *		person/m <sup>2</sup>	UNI EN 16798-1 - Table A.19						
and TION	Lighting power density *		WL	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3						
	Equipment pow	er density *	WA W/m² UNI EN 16798-1 - A.8.3								
GAINS VENTILA	Type of ventilat	ion	Natural: 100%								
°₹	Air exchange rat	te *	n	h-1	0.30	0.00	0.30	0.30	0.30		
	Heating system	type		-	Unkno	wn: 89%; Aut	tonomous: 11	.%			
	Heating generat	tor	Traditional boiler: 67%; Fireplace: 22%; Unknown: 11%								
THERMAL SYSTEMS	Daily operating heating system		No limitations								
	Energy carrier		Electricity and solid biomass: 23%; LPG: 22%; Unknown: 22%; Natural gas: 11%; Electricity and gas oil: 11%; Solid biomass: 11%								
	Heating emissio system	on sub-	Radiators: 78%; Air Ducts: 11%; Unknov								
	Cooling system	type	-								
	Daily operating cooling system	time of the	t <sub>c</sub>	h	-	-	-	-	-		
	Cooling emissio					-					
	DHW system ty					-					
	DHW generator		Unknown: 67%; Electric boiler: 22%; Natural gas boiler: 11%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards										





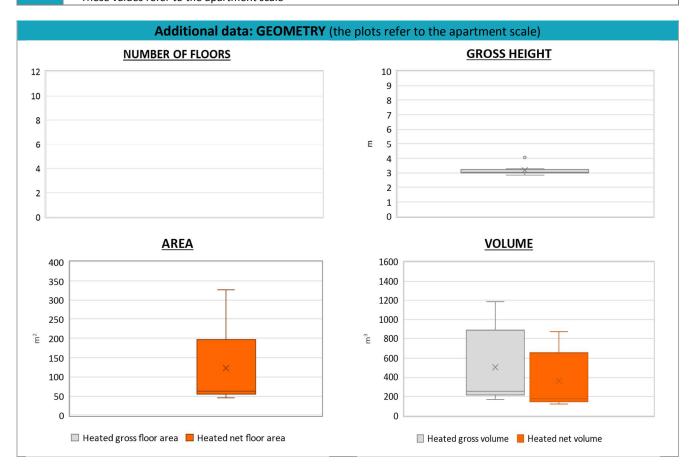


Residential buildings – Entire multifamily blocks – 1981-1990 – Zone F – Italy



Region:	Liguria				
Building category:	Residential buildings – E	RES_ BLDGS_			
Period of construction:	on: 1981-1990			1981-1990_F_LIG	
Climatic zone:	F	Number of records:	9		

ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	<i>H</i> <sub>n</sub>	m	3.2	0.4	3.0	3.1	3.4
	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>	m³	-	-	-	-	-
9 U	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	24.2	11.4	15.5	23.9	27.8
	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	-	-	-	-	-
Ĕ	DHW system power *	P <sub>W;gen</sub>	kW	17.7	19.2	1.2	14.0	36.1
	* These values refer to the apa	rtment scale						



(c) (1)

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 F – Italy





NOTE: Sample size of the analysed data.

Compactness ratio: 9; U-value of the roof: 4; U-value of the wall: 9; U-value of the windows: 9; Inter-storey height: 9; Heated net floor area: 9; Heated gross volume: 9; Heated net volume: 9; Total heating power: 8; DHW system power: 5; CO2 Emission: 6; EP\_H\_nren: 8; EP\_W\_nren: 7; EP\_GL\_nren: 8; EP\_H\_ren: 6