

Region: Liguria				Archetype code:						
Building category:Residential bit19811981-1990		uildings – Apartments in multi-family block					RES_APPBLOCK_ 1981-1990_E_LIG			
										Climati
	<b>ion:</b> <u>walls:</u> no data ava <u>bs: n</u> o data availat							<b>Data so</b> EPC databa		
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Q2 (Median value)	Q3 (third quartile)	
	Number of floors	5	nf	-	-	-	-	-	-	
	Gross height		Hg	m	-	-	-	-	-	
	Footprint area		A <sub>footprint</sub>	m²	-	-	-	-	-	
2	Heated gross floor area		A <sub>H;g</sub>	m²	-	-	-	-	-	
TRY	Heated net floor area		A <sub>H;n</sub>	m²	-	-	-	-	-	
Ψ	Heated gross volume		V <sub>H;g</sub>	m <sup>3</sup>	-	-	-	-	-	
EO EO	Heated net volume		V <sub>H;n</sub>	m <sup>3</sup>	-	_	-	-	-	
5	Compactness rat	-	A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.63	0.26	0.40	0.66	0.77	
Building geometry	WWR – North or		WWR <sub>N</sub>	-	-	-	-	-	-	
E .			WWRs	_	-		_	-		
B	WWR – South orientation		WWR <sub>F</sub>	-	_	-				
	WWR – East orientation WWR – West orientation		WWR <sub>W</sub>	-	-	-	-	-	-	
	Window to usefu		A <sub>wi</sub> /A <sub>use</sub>	-	0.13	0.06	0.09	0.10	0.14	
	Roof type			1	1	_	I	11		
	U-value of the ro	of	U <sub>fl;up</sub>	W/(m²·K)	1.19	0.69	0.54	1.32	1.81	
	External walls ty		Ufi;up	<b>VV/</b> (III K)	1.19	0.09	0.54	1.52	1.01	
ų	U-value of the w		U <sub>wl</sub>	W/(m²·K)	1.15	0.45	0.90	1.18	1.32	
Ō	Slab on ground f		Uwi	VV/(III 'K)	1.15	0.45	0.90	1.10	1.52	
ENVELOPE			U <sub>fl;lw</sub>	W/(m²·K)	1.38	0.48	1.05	1.42	1.69	
Ē		U-value of the floor		VV/(III-'K)	1.38	0.48	1.05	1.42	1.09	
		Windows type		14///	4.4.0	-	2.24	4.25	<b>F</b> 00	
		U-value of the windows		W/(m²⋅K)	4.18	1.13	3.24	4.35	5.06	
	Shading system type		-							
and TION	Occupancy dens	•	0 <sub>C</sub>	person/m <sup>2</sup>	UNI EN 16798-1 - Table A.19					
and ATIOI		Lighting power density *		W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3					
		Equipment power density *		WA W/m² UNI EN 16798-1 - A.8.3						
GAINS VENTILA	Type of ventilation			1	1	Natural:				
	Air exchange rate	e *	n	h-1	0.30	0.00	0.30	0.30	0.30	
THERMAL SYSTEMS	Heating system t Heating generate		Unknown: 92%; Autonomous: 7%; Centralized: 1% Traditional boiler: 46%; Unknown: 45%; Condensing boiler: 7%; Fireplace: 1%; Air-sourc heat pump: 1%							
	Daily operating t heating system *		t <sub>H</sub>	h	14	0	14	14	14	
	Energy carrier		Unknown: 44%; Natural gas: 32%; Electricity and natural gas: 17%; LPG: 3%; Electricity and solid biomass: 1%; Gas Oil: 1%; Electricity: 1%; Electricity and gas oil 1%							
	Heating emissior	n sub-system	Radiators: 54%; Unknown: 43%; Air Ducts: 1%; Radiant panels: 1%; Fan-coil: 1%							
	Cooling system t	уре	Unknown: 99%; Heat pump air-air: 1%							
	Daily operating t cooling system *		t <sub>c</sub>	h	-	-	-	-	-	
	Cooling emission sub-system -									
	DHW system typ	e	-							
	DHW generator		Unknown: 80%; Condensing boiler: 9%; Electric boiler: 8%; Electric heat pump: 2%; Natura gas boiler: 1%							

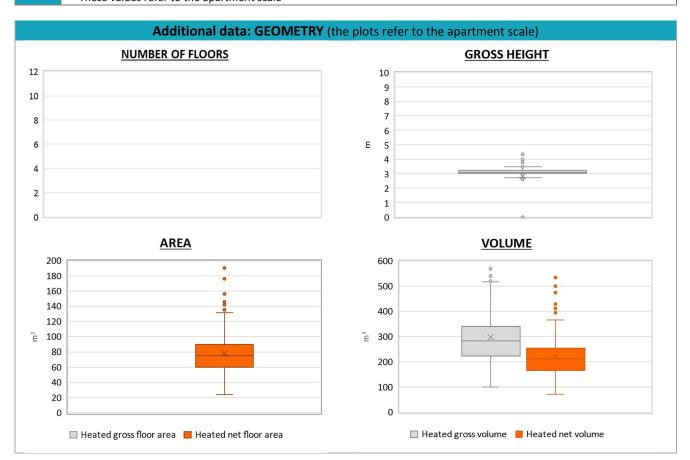






Region:	Liguria	Archetype code:		
Building category:	Residential buildings – A	RES_APPBLOCK_		
1981	1981-1990	1981-1990_E_LIG		
Climatic zone:	E	Number of records:	269	

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 <sub>n</sub>	m	3.1	0.2	3.0	3.1	3.2
	Heated gross floor area	A <sub>H;g</sub>	m²					
	Heated net floor area	A <sub>H;n</sub>	m²	78.4	28.2	60.4	75.3	90.1
	Heated gross volume	V <sub>H;g</sub>	m³	298.6	111.0	222.5	284.5	340.7
9 U	Heated net volume	V <sub>H;n</sub>	m <sup>3</sup>	219.9	78.6	167.4	213.2	254.3
S	Heating efficiency or COP	η <sub>H;gen</sub> or COP <sub>H;gen</sub>	-	This value has to be retrieved from suitable datasheets				
THERMAL SYSTEMS	Total heating power *	P <sub>H;gen</sub>	kW	24.8	6.1	24.0	24.0	26.0
	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	-	-	-	-	-
Ę	DHW system power *	P <sub>W;gen</sub>	kW	21.3	8.5	22.8	24.0	24.3
	* These values refer to the apartment scale							







NOTE: Sample size of the analysed data.

Compactness ratio: 242; Window to useful floor area ratio: 22; U-value of the roof: 46; U-value of the wall: 230; U-value of the floor: 23; U-value of the windows: 269; Inter-storey height: 242; Heated net floor area: 242; Heated gross volume: 242; Heated net volume: 242; Total heating power: 111; DHW system power: 201; CO2 Emission: 264; EP\_H\_nren: 264; EP\_W\_nren: 247; EP\_GL\_nren: 269; EP\_H\_ren: 187; EP\_W\_ren: 134