

Region:		Liguria		Archetype code:						
		Residential b	uildings – Si	RES_SI	RES_SINGLE_					
		1981-1990		1981-199	0_E_LIG					
		E	Number of records: 158							
Descrip	tion:							Data so	ources:	
-		vailabla						EPC databa		
	<u>l walls:</u> no data av i <u>bs:</u> no data availa									
<u>11001 318</u>		ble	C	11		Chan de mi	04 /5	02 (14 - 11 - 1	02 (think	
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Q2 (Median value)	Q3 (third quartile)	
	Number of floors		n _f	-	-			-	- quartier	
	Gross height		Hg	m	-	_	_	_		
	Footprint area		A _{footprint}	m ²	-		-	_		
	Heated gross floor area		Arootprint A _{H;g}	m ²	-		-	_		
'RY	Heated net floor area		A _{H;g}	m ²	-		-	_		
BUILDING GEOMETRY	Heated gross volume		V _{H;g}	m ³			-	_		
EO	Heated gross volume Heated net volume		V _{H;g}	m ³	-	-	-	-	-	
U	Compactness ratio		A _{env} /V _{H;g}	m ⁻¹	0.69	0.31	0.38	0.70	0.89	
Ň	· · ·		WWR _N	-	0.09	0.51	-	-	-	
	WWR – North orientation WWR – South orientation		WWR _s	-	-	-	-	_	-	
B	WWR – East orig		WWR _E	_	-	_	-	_		
			WWR _w	-	-	-	-	_	-	
	WWR – West orientation Window to useful floor area		VVVVNW	-	-	-	-	-	-	
	ratio	ui noor area	A _{wi} /A _{use}	-	0.11	0.03	0.09	0.10	0.12	
	Roof type			1		-				
	U-value of the roof		U _{fl;up}	W/(m ² ·K)	1.28	0.75	0.62	1.31	1.85	
	External walls type		Un;up		1.20	- 0.75	0.02	1.51	1.05	
Ы	U-value of the wall		U _{wl}	W/(m ² ·K)	1.19	0.54	0.86	1.17	1.49	
IO	Slab on ground floor type		UWI	•••	1.19	- 0.54	0.80	1.17	1.49	
ENVELOPE	<i>U</i> -value of the floor		U _{fl;lw}	W/(m ² ·K)	1.52	0.58	1.35	1.59	1.74	
ш	Windows type		U II,IW		1.52	- 0.50	1.55	1.55	1.74	
	<i>U</i> -value of the windows		Uw	W/(m²·K)	3.92	1.22	3.02	4.08	4.73	
	Shading system type		0,00		5.52	- 1.22	5.02	4.00	4.75	
		Occupancy density *		person/m ²			JI FN 16798-1	- Table A 19		
S and ATION	Lighting power density *									
IS al	Equipment power density *		WL W/m² UNI EN 16798-1 - A.8.3 WA W/m² UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation		W _A W/m ² ON EN 16798-1 - A.8.3 Natural: 100%							
	Air exchange rate *		n	h-1	0.30	0.00	0.30	0.30	0.30	
	Heating system type		Unknown: 95%; Autonomous: 5% Unknown: 45%; Traditional boiler; 40%; Condensing boiler: 6%; Fireplace: 5%; Air-source							
	Heating generat	tor	heat pump: 3%; Heat exchanger of district heating/cooling: 1%							
	Daily operating time of the									
	heating system	*	t _H	h	14	0	14	14	14	
(0			Unknown: 46%; Natural gas: 25%; Electricity and natural gas: 12%; Electricity and solid							
WS	Energy carrier		biomass: 4%; LPG: 3%; Gas Oil: 3%; Solid biomass: 3%; Electricity: 3%;							
/STI			Electricity and gas oil: 1%							
THERMAL SYSTEMS	Heating emission sub-system		Unknown: 46%; Radiators: 46%; Air Ducts: 3%; Radiant panels: 2%; Air Heater: 1%; Fan- coil: 1%; Convectors: 1%							
	Cooling system type		Unknown: 97%; Heat pump air-air: 2%; Heat pump air-water: 1%							
	Daily operating time of the			Unknown	97%; пеа	l pump air-aii	г. 2%; пеат ри	imp air-water: 1	/0	
	cooling system *		t _C	h	-	-	-	-	-	
	Cooling emission sub-system		<u> </u>							
	DHW system type		-							
			Unknown: 78%; Electric boiler: 10%; Condensing boiler: 6%; Electric heat pump: 4%;							
	DHW generator	Natural gas boiler: 2%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									



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 – Single family houses – 1981-1990 – Zone E – Italy



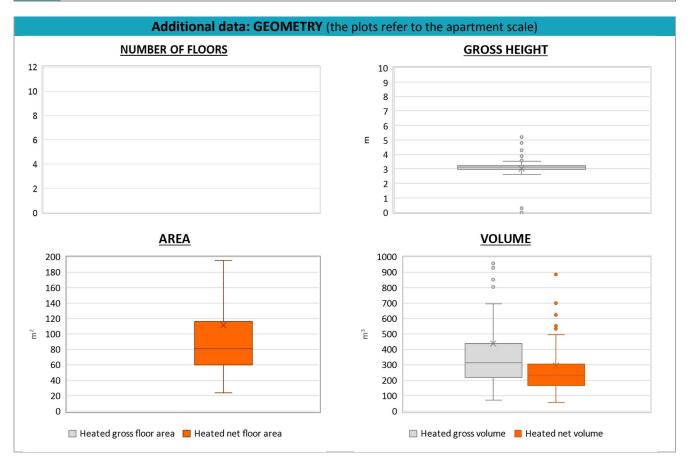


Residential buildings – Single family houses – 1981-1990 – Zone E – Italy



Region:		Liguria			Archetype code:						
Building category:		Residential b	ouildings – Sing		RES_SINGLE_						
Period of construction: 198		1981-1990			1981-1990_E_LIG						
Climatic zone:		E		N	umber of r						
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	0.4	3.0	3.1	3.2		
	Heated gross floor area		A _{H;g}	m²	-	-	-	-	-		
	Heated net floor area		A _{H;n}	m²	111.1	103.6	59.8	80.9	116.6		
	Heated gross volume		V _{H;g}	m ³	438.8	545.8	220.3	315.2	438.7		
	Heated net volume		V _{H;n}	m ³	294.8	273.6	169.0	232.1	307.1		
THERMAL SYSTEMS	Heating efficiency or COP		$\eta_{ m H;gen}$ or $COP_{ m H;gen}$	-	This value has to be retrieved from suitable datasheets						
	Total heating power *		P _{H;gen}	kW	24.5	8.8	23.3	24.0	27.2		
	Cooling efficiency or EER		η _{C;gen} or EER _{C;gen}	-	This value has to be retrieved from suitable datasheets						
	Total cooling power *		P _{C;gen}	kW	-	-	-	-	-		
	Temperature of DHW		θw	°C	-	-	-	-	-		
	DHW system power *		P _{W;gen}	kW	20.5	11.0	17.8	24.0	25.7		
	* These values refer to the anartment scale										

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NOTE: Sample size of the analysed data.

Compactness ratio: 158; Window to useful floor area ratio: 21; U-value of the roof: 40; U-value of the wall: 144; U-value of the floor: 15; U-value of the windows: 158; Inter-storey height: 154; Heated net floor area: 154; Heated gross volume: 148; Heated net volume: 148; Total heating power: 69; DHW system power: 102; CO2 Emission: 151; EP_H_nren: 152; EP_W_nren: 137; EP_GL_nren: 153; EP_H_ren: 108; EP_W_ren: 90

