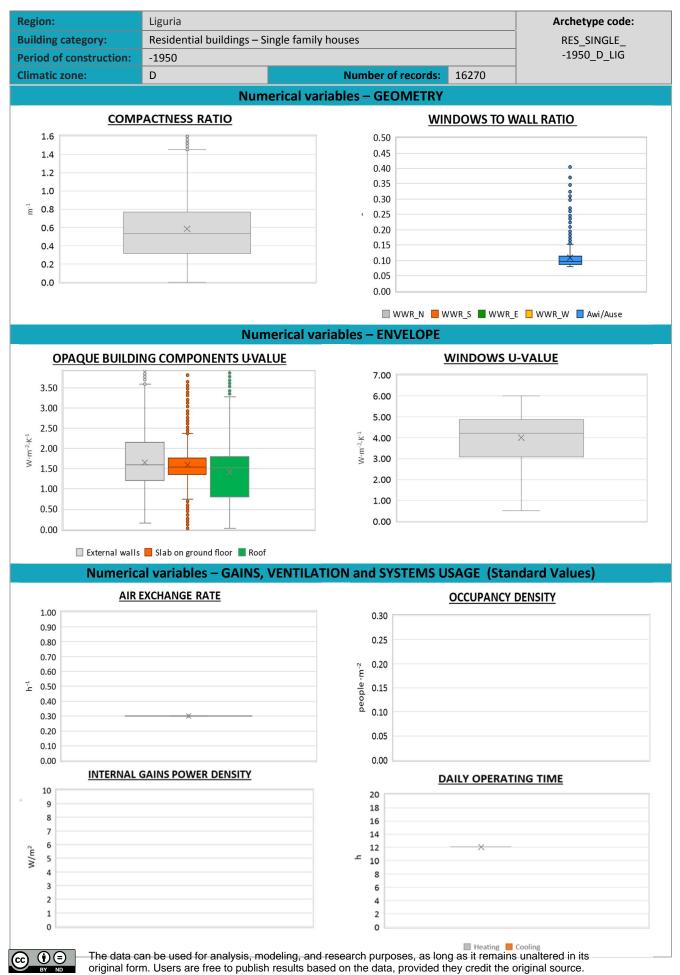


Region:		Liguria		Archetype code:								
Building category:		Residential b	uildings – Si	RES_SINGLE_								
Period of construction:		-1950		-1950_								
		D	Number of			of records:	16270					
Description:									Data sources:			
External walls: no data available									EPC databases (100%)			
<u>Roof slabs:</u> no data available												
	Data		Symbol	Unit of	Mean	Standard	Q1 (first	Q2 (Median	Q3 (third			
				measure	value	deviation	quartile)	value)	quartile)			
	Number of floors		n <sub>f</sub>	-	-	-	-	-	-			
	Gross height		Hg	m m <sup>2</sup>	-	-	-	-	-			
BUILDING GEOMETRY	Footprint area		A <sub>footprint</sub>		-	-	-	-	-			
	Heated gross floor area		A <sub>H;g</sub>	m <sup>2</sup> m <sup>2</sup>	-	-	-	-	-			
	Heated net floor area		A <sub>H;n</sub>	m <sup>3</sup>	-	-	-	-	-			
	Heated gross volume		V <sub>H;g</sub>	m <sup>3</sup>	-	-		-	-			
	Heated net volume		V <sub>H;n</sub>	m <sup>-1</sup>								
	Compactness ratio		$A_{\rm env}/V_{\rm H;g}$	- m	0.59	0.69	0.32	- 0.54	0.77			
	WWR – North orientation		WWR <sub>N</sub>	-	-	-	-	-				
	WWR – South orientation		WWR <sub>s</sub>	-	-	-	-	-	-			
	WWR – East orientation WWR – West orientation		WWR <sub>E</sub> WWR <sub>W</sub>	-	-	-	-	-	-			
	Window to useful floor area		VVVVNW	-	-	-	-	-	-			
	ratio		A <sub>wi</sub> /A <sub>use</sub>	-	0.11	0.04	0.09	0.10	0.11			
	Roof type				1	-		11				
ENVELOPE	<i>U</i> -value of the roof		U <sub>fl;up</sub>	W/(m²·K)	1.40	0.78	0.80	1.52	1.80			
	External walls type					-						
	U-value of the wall		U <sub>wl</sub>	W/(m²·K)	1.66	0.62	1.20	1.60	2.16			
	Slab on ground floor type				1	-	1					
	U-value of the floor		U <sub>fl;lw</sub>	W/(m²·K)	1.60	0.54	1.35	1.54	1.76			
	Windows type					-						
	U-value of the windows		Uw	W/(m²⋅K)	4.01	1.19	3.09	4.23	4.87			
	Shading system type					-						
GAINS and VENTILATION	Occupancy density *		Oc	person/m <sup>2</sup>	UNI EN 16798-1 - Table A.19							
	Lighting power density *		WL	W/m²	UNI EN 16798-1 - A.8.3							
	Equipment power density *		WA         W/m²         UNI EN 16798-1 - A.8.3									
	Type of ventilation		Natural: 99%; Mechanical: 1%									
	Air exchange rate *		n	h⁻¹	0.30	0.00	0.30	0.30	0.30			
THERMAL SYSTEMS	Heating system type		Unknown: 94%; Autonomous: 6%									
	Heating generator		Traditional boiler: 44%; Unknown: 40%; Condensing boiler: 11%; Air-source heat pump: 3%; Fireplace: 2%									
	Daily operating time of the heating system *		t <sub>H</sub>	h	12	0	12	12	12			
	Energy carrier		Natural gas: 42%; Unknown: 40%; Electricity and natural gas: 12%; Electricity: 3%; Electricity and solid biomass: 1%; LPG: 1%; Solid biomass: 1%									
	Heating emission sub-system		Radiators: 55%; Unknown: 40%; Air Ducts: 2%; Fan-coil: 1%; Radiant panels: 1%; Convectors: 1%									
	Cooling system type			Unknown:	94%; Heat	pump air-ai	r: 5%; Heat pu	mp air-water: 1	%			
	Daily operating time of the cooling system *		tc	h	-	-	-	-	-			
	Cooling emission sub-system											
	DHW system type		-									
	DHW generator Unknown: 77%; Condensing boiler: 9%; Electric boiler: 8%; Natural gas boiler: 4%; Electric boiler: 2%							r: 4%; Electric				
	* These values we	* 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 – -1950– Zone D – Italy



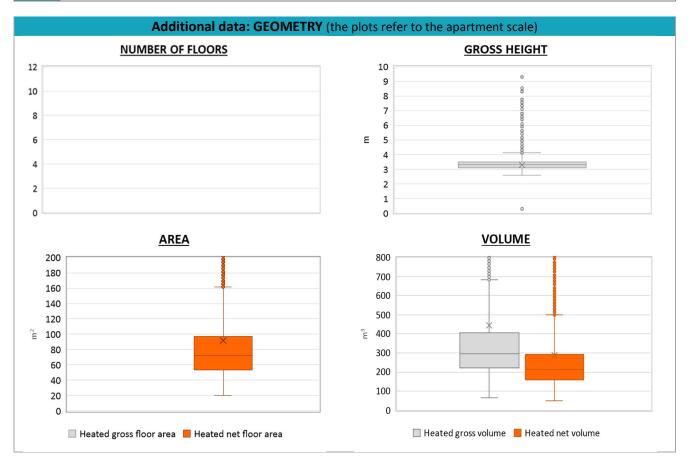


Residential buildings – Single family houses – -1950– Zone D – Italy



Region:		Liguria			Archetype code:						
Building category:		Residential b	uildings – Sing		RES_SINGLE_						
Period of construction:		-1950			-1950_D_LIG						
Climatic zone:		D		N	umber of r	70					
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	3.3	0.4	3.1	3.3	3.5		
	Heated gross floor area		A <sub>H;g</sub>	m²	-			-	-		
	Heated net floor area		A <sub>H;n</sub>	m²	91.7	201.9	53.6	71.9	96.9		
	Heated gross volume		V <sub>H;g</sub>	m <sup>3</sup>	442.9	5067.0	221.7	296.8	406.0		
	Heated net volume		V <sub>H;n</sub>	m <sup>3</sup>	289.3	754.3	157.4	214.7	293.5		
THERMAL SYSTEMS	Heating efficiency or COP		$\eta_{ m H;gen}$ or COP <sub>H;gen</sub>	-	This value has to be retrieved from suitable datasheets						
	Total heating power *		P <sub>H;gen</sub>	kW	22.8	6.4	23.6	24.0	24.0		
	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	-	-	-	-	-		
	DHW system power *		P <sub>W;gen</sub>	kW	20.3	8.7	20.0	24.0	24.0		
	* These values refer to the anartment scale										

These values refer to the apartment scale



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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 – -1950– Zone D – Italy





NOTE: Sample size of the analysed data.

Compactness ratio: 16150; Window to useful floor area ratio: 1367; U-value of the roof: 3344; U-value of the wall: 14350; U-value of the floor: 1223; U-value of the windows: 16270; Inter-storey height: 16270; Heated net floor area: 16270; Heated gross volume: 16150; Heated net volume: 16150; Total heating power: 7105; DHW system power: 10666; CO2 Emission: 15803; EP\_H\_nren: 16179; EP\_W\_nren: 15216; EP\_GL\_nren: 16135; EP\_H\_ren: 11165; EP\_W\_ren: 9259

