

 Region:
 Calabria
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_

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 1971-1980
 1971-1980_E_CAL

 Climatic zone:
 E
 Number of records:
 12

Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):

External walls: double layer of hollow bricks (12 cm + 12 cm) with uninsulated air gap (cod. MCV01). Roof slabs: no data available

Data sources: Survey data (51%) Measured data (16%) Expert assumptions (13%) Others (20%) #

							Others (20%) #		
	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third	
	Neverborneffloore		measure	value	deviation	quartile)	value	quartile)	
BUILDING GEOMETRY	Number of floors	n _f	-	2.50	2.39	1.00	1.00	3.25	
	Gross height	Hg	m2	-	-	-	-	-	
	Footprint area	A _{footprint}	m ²	-	-	-	-	-	
	Heated gross floor area	A _{H;g}	m ²	-	-	-	-	-	
	Heated net floor area	A _{H;n}	m ²	-	-	-	-	-	
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-	
	Heated net volume	V _{H;n}	m ³	-	-	-	-	-	
	Compactness ratio	$A_{\rm env}/V_{\rm H;g}$	m ⁻¹	0.43	0.15	0.26	0.48	0.55	
	WWR – North orientation	WWR _N	-	0.18	0.12	0.07	0.16	0.27	
B.	WWR – South orientation	WWR _S	-	0.16	0.07	0.09	0.17	0.19	
	WWR – East orientation	WWR _E	-	0.18	0.10	0.05	0.20	0.26	
	WWR – West orientation	<i>WWR</i> _W	-	0.29	0.21	0.12	0.30	0.33	
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.19	0.13	0.10	0.17	0.21	
	Roof type	-							
	<i>U</i> -value of the roof	U _{fl;up}	W/(m ² ·K)	1.10	0.78	0.32	1.06	1.42	
	External walls type	Hollow brick masonry: 75%, Solid brick masonry: 17%, Concrete wall: 8%							
Ä	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	0.89	0.30	0.70	0.90	1.14	
3	Slab on ground floor type	-							
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	0.62	0.44	0.26	0.32	1.04	
	Windows type	Double glazing, wooden frame: 33%, Single glazing, wooden frame: 25%, Double glazing, aluminum frame with thermal break: 17%, Double glazing, PVC frame: 17%, Single glazing, aluminum frame: 8%							
	<i>U</i> -value of the windows	U _W	W/(m²·K)	3.02	1.09	2.41	2.90	3.63	
	Shading system type	Roller blinds: 84%, Shutter: 8%, Curtains: 8%							
7	Occupancy density	O _C	person/m ²	0.033	0.011	0.026	0.035	0.043	
필흔	Lighting power density *	W _L W/m ² UNI EN 16798-1 - A.8.3							
S S	Equipment power density *	W _A W/m ² UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation	Natural: 100%							
0 8	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30	
	Heating system type	Autonomous: 100%							
	Heating generator	Traditional Boiler: 42%, Fireplace: 33%, Condensing Boiler: 25%							
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	8.00	0.00	8.00	8.00	8.00	
	Energy carrier	Natural Gas: 67%, Solid biomass: 33%							
	Heating emission sub-system	Radiators: 100%							
	Cooling system type	Absent: 100%							
	Daily operating time of the				7.000	20070			
	cooling system	t _C	h	-	-	-	-	-	
	Cooling emission sub-system				-				
	DHW system type				-				
	DHW generator				-				
		Standards (8%), Municipal database (8%), EPC database (4%).							
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards								



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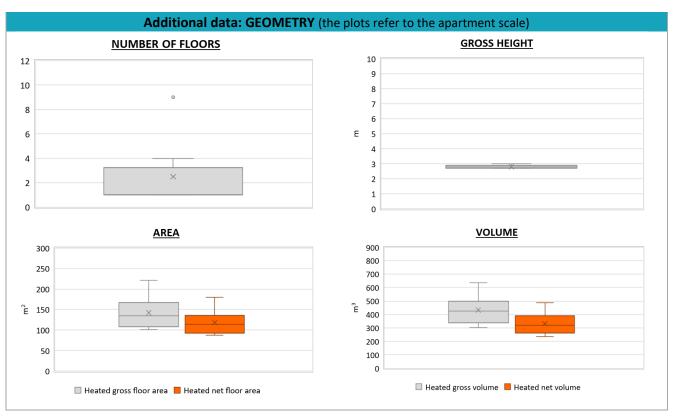
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H _n	m	2.81	0.12	2.70	2.80	2.90
	Heated gross floor area	A _{H;g}	m ²	142.16	36.88	108.17	134.49	167.32
	Heated net floor area	A _{H;n}	m²	118.74	28.95	92.44	113.74	136.15
	Heated gross volume	V _{H;g}	m³	432.44	103.99	339.23	424.58	497.78
U m	Heated net volume	V _{H;n}	m³	332.44	77.88	260.70	321.28	390.24
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or <i>COP</i> H;gen	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	P _{H;gen}	kW	24.52	2.87	22.85	24.50	26.70
	Cooling efficiency or EER	η _{C;gen} or <i>EER</i> _{C;gen}	-	This value has to be retrieved from suitable datasheets				
	Total cooling power	P _{C;gen}	kW	-	-	-	-	-
	Temperature of DHW	θ_{W}	°C	40.00	0.00	40.00	40.00	40.00
Ė	DHW system power	P _{W;gen}	kW	-	-	-	-	-
* These values refer to the apartment scale								





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