

 Region:
 Calabria
 Archetype code:

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 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_2001-2010_C_CAL

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 2001-2010
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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 (52%) Measured data (16%) Expert assumptions (12%) Others (20%) #

				Others (20%) #					
	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third	
BUILDING GEOMETRY			measure	value	deviation	quartile)	value	quartile)	
	Number of floors	n _f	-	2.12	1.72	1.00	1.00	3.00	
	Gross height	Hg	m	-	-	-	-	-	
	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	0.38	0.17	0.26	0.31	0.46	
	WWR – North orientation	WWR _N	-	0.21	0.13	0.10	0.17	0.32	
B.	WWR – South orientation	WWR _S	-	0.21	0.18	0.06	0.20	0.28	
	WWR – East orientation	WWR _E	-	0.21	0.13	0.10	0.23	0.28	
	WWR – West orientation	<i>WWR</i> _W	-	0.19	0.11	0.10	0.15	0.24	
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.16	0.06	0.12	0.17	0.19	
	Roof type -								
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²·K)	1.00	0.71	0.36	0.75	1.42	
	External walls type	Hollow brick masonry: 100%							
ш	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	0.74	0.48	0.50	0.57	1.00	
O I	Slab on ground floor type	-							
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	1.05	0.70	0.45	0.92	1.46	
	Windows type	Double glazing, wooden frame: 28%, Double glazing, aluminum frame with thermal break: 24%, Double glazing, PVC frame: 24%, Double glazing, aluminum frame, no thermal break: 20%, Triple glazing, aluminum frame with thermal break: 4%,							
	<i>U</i> -value of the windows	U _W W/(m ² ·K) 3.79 1.14 2.85 3.14 4.95							
	Shading system type	Roller blinds: 52%, Shutter: 36%, Curtains: 12%							
7	Occupancy density	O _C	person/m ²	0.034	0.016	0.022	0.032	0.044	
필현	Lighting power density *	W_{L}	W/m ²		1	UNI EN 16798	-1 - A.8.3		
S a	Equipment power density *	W _A	W _A W/m ² UNI EN 16798-1 - A.8.3						
GAINS and VENTILATION	Type of ventilation	Natural: 100%							
, A	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: 76%, Condensing Boiler: 16%, Fireplace: 4%, Unknown: 4%							
	Daily operating time of the heating system *	t _H	h	8.00	0.00	8.00	8.00	8.00	
MS	Energy carrier	Natural Gas: 84%, LPG: 4%, Solid biomass: 4%, Unknown: 4%							
THERMAL SYSTEMS	Heating emission sub-system	Radiators: 88%, Fan coil: 8%, Unknown: 4%							
	Cooling system type	Absent: 96%, Air-cooled chiller: 4%							
Æ	Daily operating time of the					Joied emiler. 176			
R	cooling system *	tc	h	8.00	0.00	8.00	8.00	8.00	
置	Cooling emission sub-system	Fan coil: 100%							
	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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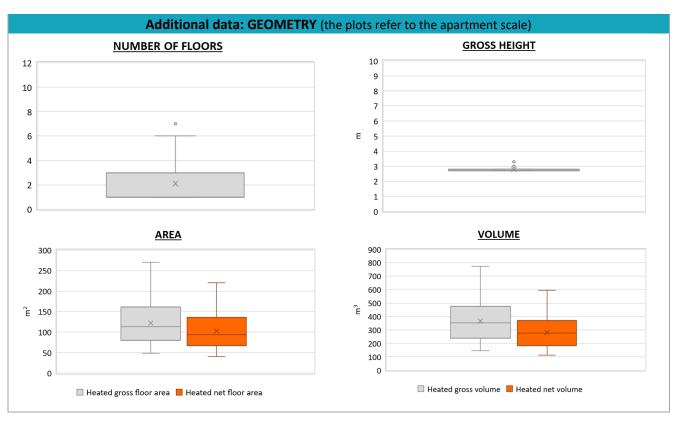
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H _n	m	2.78	0.15	2.70	2.70	2.80
	Heated gross floor area	A _{H;g}	m ²	167.91	123.96	82.79	124.03	185.20
	Heated net floor area	A _{H;n}	m ²	140.70	103.73	69.72	102.35	156.50
	Heated gross volume	V _{H;g}	m³	517.58	409.88	244.42	381.02	559.26
U m	Heated net volume	V _{H;n}	m³	397.44	314.44	188.24	286.20	430.70
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	25.64	2.83	24.00	24.20	27.30
	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
É	DHW system power	P _{W;gen}	kW	-	-	-	-	-
	* These values refer to the apartment scale							





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