

 Region:
 Calabria
 Archetype code:

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 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_

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 C
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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 (8 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	-	1.62	1.16	1.00	1.00	2.00	
	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}	m³	-	-	-	-	-	
	Heated net volume	V _{H;n}	m³	-	-	-	-	-	
	Compactness ratio	$A_{\rm env}/V_{\rm H;g}$	m ⁻¹	0.36	0.15	0.25	0.33	0.39	
⊴	WWR – North orientation	WWR _N	-	0.21	0.15	0.12	0.19	0.27	
E E	WWR – South orientation	WWR _S	-	0.21	0.18	0.09	0.13	0.25	
	WWR – East orientation	WWR _E	-	0.19	0.13	0.09	0.18	0.22	
	WWR – West orientation	<i>WWR</i> _W	-	0.26	0.14	0.15	0.24	0.37	
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.15	0.05	0.10	0.14	0.18	
	Roof type -								
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²·K)	1.01	0.62	0.46	0.79	1.58	
	External walls type	Hollow brick masonry: 81%, Solid brick masonry: 14%, Masonry with local stones: 5%							
	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²·K)	1.08	0.48	0.80	1.02	1.11	
<u> </u>	Slab on ground floor type	-							
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	0.87	0.61	0.32	0.72	1.31	
E N	Windows type	Single glazing, wooden frame: 43%, Double glazing, aluminum frame with thermal break: 24%, Single glazing, aluminum frame: 19%, Double glazing, aluminum frame, no thermal break: 9%, Double glazing, wooden frame: 5%							
	<i>U</i> -value of the windows	U _W	W/(m ² ·K)	3.23	0.84	2.80	3.00	3.45	
	Shading system type	Shutter: 52%, Roller blinds: 43%, Curtains: 5%							
-	Occupancy density	O _C	person/m ²	0.031	0.011	0.023	0.030	0.038	
필호	Lighting power density *	W_{L}	W/m ²			UNI EN 16798	-1 - A.8.3		
Sa FA	Equipment power density *	W _A	W/m ²						
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: 95%, Centralized: 5%						
	Heating generator	Traditional Boiler: 76%, Condensing Boiler: 10%, Air-source heat pump: 5%, Unknown: 9%							
	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: 71%, LPG: 10%, Electricity: 10%, Unknown: 9%							
THERMAL SYSTEMS	Heating emission sub-system	Radiators: 81%, Fan coil: 10%, Unknown: 9%							
	Cooling system type	Absent: 95%, Air-cooled chiller: 5%,							
	Daily operating time of the				111. 3370, All CC	orea crimer. 570	,		
	cooling system *	t _C	h	8.00	0.00	8.00	8.00	8.00	
Ĕ	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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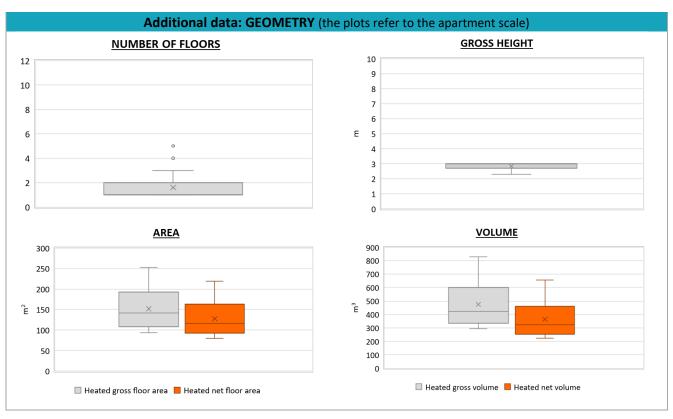
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H _n	m	2.85	0.19	2.70	3.00	3.00
	Heated gross floor area	A _{H;g}	m ²	152.09	47.61	108.50	141.95	192.64
	Heated net floor area	A _{H;n}	m²	127.85	40.65	92.50	116.30	162.91
	Heated gross volume	V _{H;g}	m³	474.84	156.67	334.20	422.41	600.93
U m	Heated net volume	V _{H;n}	m³	364.43	122.26	254.31	322.22	460.28
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ ext{H;gen}}$ or $ ext{ extit{COP}_{ ext{H;gen}}}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	P _{H;gen}	kW	27.04	6.53	24.00	24.00	26.95
	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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