

 Region:
 Calabria
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_2001-2010_D_CAL

 Period of construction:
 2001-2010
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 33

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

External walls: hollow bricks (8 cm), insulation (2 cm), semi-solid bricks (25 cm) (cod. MCV02).

Roof slabs: no data available

Data sources: Survey data (52%) Measured data (16%) Expert assumptions (12%) Others (20%) #

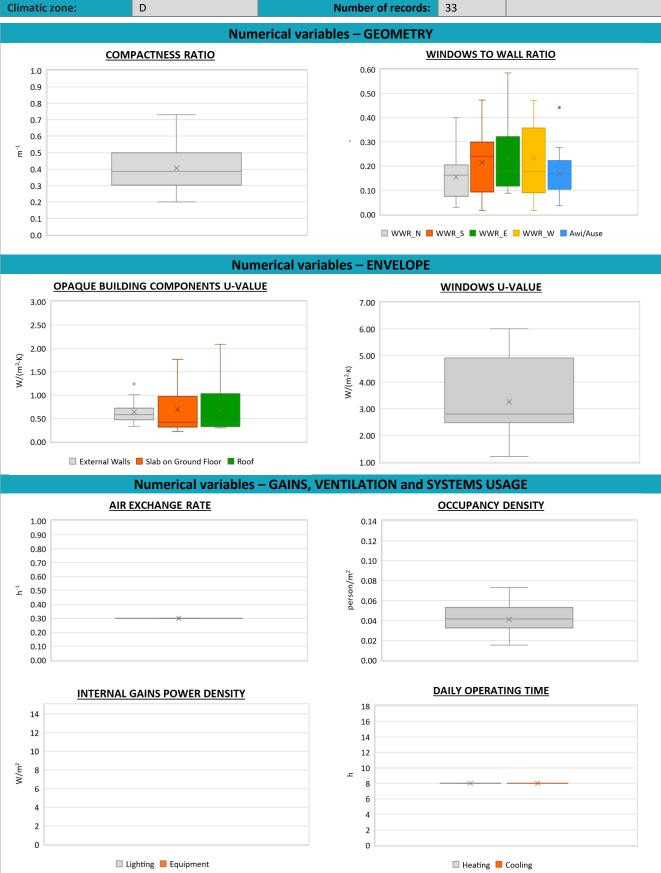
							Others (20%) #		
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
BUILDING GEOMETRY	Number of floors	n _f	-	2.42	2.22	1.00	1.00	3.00	
	Gross height	H _g	m	-	-	-	-	-	
	Footprint area	A _{footprint}	m ²	-	-	-	_	_	
	Heated gross floor area	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 _{env} /V _{H;g}	m ⁻¹	0.41	0.15	0.30	0.39	0.50	
	WWR – North orientation	WWR _N	-	0.15	0.10	0.07	0.16	0.20	
3	WWR – South orientation	WWR _S	_	0.21	0.12	0.09	0.24	0.30	
<u> </u>	WWR – East orientation	WWR _E	-	0.23	0.14	0.12	0.18	0.32	
	WWR – West orientation	WWR _W	_	0.23	0.19	0.09	0.18	0.36	
	Window to useful floor area ratio	A_{wi}/A_{use}	-	0.17	0.08	0.10	0.17	0.22	
	Roof type	-							
	<i>U</i> -value of the roof	U _{fl;up}	W/(m ² ·K)	0.68	0.53	0.32	0.39	1.03	
	External walls type	Hollow brick masonry: 94%, Solid brick masonry: 6%							
	<i>U</i> -value of the wall	U _{wl}	W/(m ² ·K)	0.64	0.24	0.48	0.58	0.73	
9PE	Slab on ground floor type	-							
ENVELOPE	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	0.69	0.50	0.32	0.42	0.97	
	Windows type	Double glazing, wooden frame: 34%, Double glazing, aluminum frame, no thermal break: 24%, Double glazing, PVC frame: 21%, Double glazing, aluminum frame with thermal break: 9%, Single glazing, wooden frame: 6%, Single glazing, aluminum frame: 3%, Unknown: 3%							
	<i>U</i> -value of the windows	U _W	W/(m ² ·K)	3.26	1.41	2.48	2.80	4.90	
	Shading system type	Roller blinds: 64%, Shutter: 27%, Curtains: 6%, Unknown: 3%							
7	Occupancy density	O _C	person/m ²	0.041	0.015	0.033	0.042	0.053	
밀	Lighting power density *	W _L	W/m ²			UNI EN 16798	-1 - A.8.3		
SS [Ā]	Equipment power density *	W _A W/m ² UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation	Natural: 100%							
Ŭ ₩	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: 79%, Condensing Boiler: 18%, Fireplace: 3%							
	Daily operating time of the heating system *	t _H	h	8.00	0.00	8.00	8.00	8.00	
S N	Energy carrier	Natural Gas: 73%, Electricity: 12%, LPG: 9%, Solid biomass: 3%, Gas Oil 3%							
/STE	Heating emission sub-system	Radiators: 100%							
THERMAL SYSTEMS	Cooling system type	Absent: 97%, Air-cooled chiller: 3%							
	Daily operating time of the cooling system *	t _C	h	8.00	0.00	8.00	8.00	8.00	
Ē	Cooling emission sub-system	Fan coil: 100%							
	DHW system type				-				
	DHW generator				-				
	# Standards (8%), Municipal database (8%), EPC database (4%).								
	" inese values were not available in the	he considered sources, and are thus derived from UNI EN Standards							



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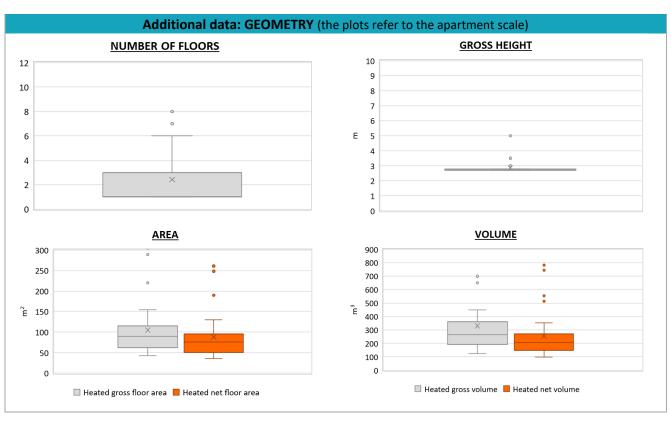
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H _n	m	2.86	0.43	2.70	2.70	2.80
	Heated gross floor area	A _{H;g}	m ²	104.76	62.80	61.90	89.72	115.09
	Heated net floor area	A _{H;n}	m ²	88.26	53.99	50.80	76.00	95.67
	Heated gross volume	V _{H;g}	m³	330.35	216.59	192.01	266.27	362.49
U 18	Heated net volume	V _{H;n}	m³	254.91	168.29	148.18	205.20	269.97
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	23.99	5.86	21.00	24.10	26.00
	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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