

egion:		Calabria						Archetype code:			
Building category: Residential bu		uildings – Ap	partments (in r	nultifamil	y blocks)		RES_AP	RES_APPBLOCK_			
eriod o	of construction:	2001-2010						2001-20	10_D_CAL		
Climatic zone: D				Number	of records:	33					
				and slabs refer to the structures described in UNI/TR 11552:2014): ation (2 cm), semi-solid bricks (25 cm) (cod. MCV02).					Data sources: Survey data (52%) Measured data (16%) Expert assumptions (12% Others (20%) #		
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
	Number of floor	5	nf	-	2.42	2.22	1.00	1.00	3.00		
	Gross height	<u> </u>	Hg	m	-	-	-	-	-		
	Footprint area		A <sub>footprint</sub>	m <sup>2</sup>	-	-	-	-	-		
	Heated gross floor area		A <sub>H;g</sub>	m²	_	_	_		_		
RY	Heated net floor area		A <sub>H;g</sub>	m <sup>2</sup>					-		
H	Heated gross volume		V <sub>H;g</sub>	m <sup>3</sup>							
BUILDING GEOMETRY	Heated net volume		V <sub>H;g</sub>	m <sup>3</sup>	-	-	_	-	-		
ບ ບ	Compactness ratio		A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.41	0.15	0.30	0.39	0.50		
N	WWR – North or		WWR <sub>N</sub>	-	0.15	0.10	0.07	0.16	0.20		
3	WWR – South orientation		WWRs		0.15	0.10	0.09	0.10	0.30		
8	WWR – East orientation		WWR <sub>E</sub>	-	0.21	0.12	0.03	0.24	0.30		
	WWR – West orientation		WWR <sub>W</sub>	-	0.23	0.14	0.09	0.18	0.32		
	Window to useful floor area ratio		A <sub>wi</sub> /A <sub>use</sub>	-	0.17	0.08	0.10	0.17	0.22		
	Roof type			1		-	1	I	1		
	U-value of the roof		U <sub>fl;up</sub>	W/(m²·K)	0.68	0.53	0.32	0.39	1.03		
	External walls ty		Hollow brick masonry: 94%, Solid brick masonry: 6%								
	U-value of the wall		U <sub>wl</sub>	W/(m <sup>2</sup> ·K)	0.64	0.24	0.48	0.58	0.73		
DPE	Slab on ground f	-	U WI	,(		-	0110	0.00	0.10		
Ē	<i>U</i> -value of the flo		Ufl:lw	W/(m <sup>2</sup> ·K)	0.69	0.50	0.32	0.42	0.97		
ENVELOPE	Windows type		Double	e glazing, wooden frame: 34%, Double glazing, aluminum frame, no thermal break: 24%, glazing, PVC frame: 21%, Double glazing, aluminum frame with thermal break: 9%, Singl glazing, wooden frame: 6%, Single glazing, aluminum frame: 3%, Unknown: 3%							
	U-value of the windows		Uw	W/(m <sup>2</sup> ·K)	3.26	1.41	2.48	2.80	4.90		
	Shading system type			Roller	blinds: 64%	, Shutter: 27%	5, Curtains: 6%, U	Jnknown: 3%	1		
7	Occupancy density		O <sub>C</sub>	person/m <sup>2</sup>	0.041	0.015	0.033	0.042	0.053		
VENTILATION	Lighting power d		WL	W/m² UNI EN 16798-1 - A.8.3							
F	Equipment powe		WL W/m Order 10000 F A.0.0   WA W/m <sup>2</sup> UNI EN 16798-1 - A.8.3								
ENTILATIO		Type of ventilation		Natural: 100%							
K	Air exchange rate		n	h-1	0.30	0.00	0.30	0.30	0.30		
	Heating system type			1		Autonomo	us: 100%	I			
	Heating generate							Fireplace: 3%			
	Daily operating t								0.00		
<b>(</b> 0	heating system *	:	t <sub>H</sub>	h	8.00	0.00	8.00	8.00	8.00		
THERMAL SYSTEMS	Energy carrier		Natural Gas: 73%, Electricity: 12%, LPG: 9%, Solid biomass: 3%, Gas Oil 3%								
	Heating emission sub-system		Radiators: 100%								
	Cooling system type				Abse	ent: 97%, Air-c	ooled chiller: 3%				
	Daily operating time of the cooling system *		tc	h	8.00	0.00	8.00	8.00	8.00		
	Cooling emission sub-system		Fan coil: 100%								
	DHW system typ	e	-								
	/	-									



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 – Apartment blocks – 2001/2010 – Zone D – Calabria



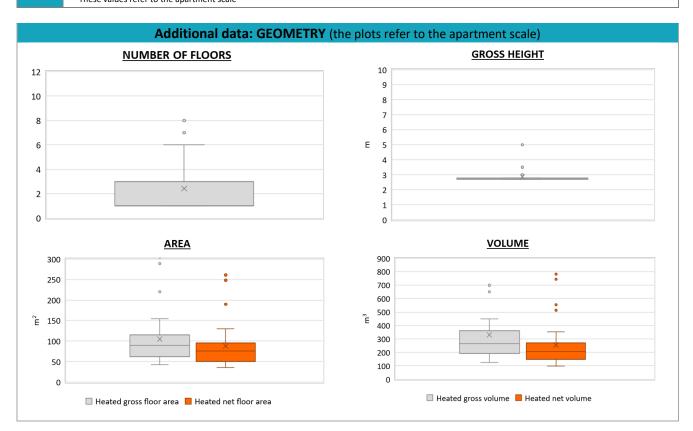


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Region:	Region: Calabria				
Building category:	RES_APPBLOCK_				
Period of construction:	2001-2010	2001-2010_D_CAL			
Climatic zone:	D	Number of records:	33		

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	2.86	0.43	2.70	2.70	2.80
	Heated gross floor area	A <sub>H;g</sub>	m²	104.76	62.80	61.90	89.72	115.09
	Heated net floor area	A <sub>H;n</sub>	m²	88.26	53.99	50.80	76.00	95.67
	Heated gross volume	V <sub>H;g</sub>	m <sup>3</sup>	330.35	216.59	192.01	266.27	362.49
	Heated net volume	V <sub>H;n</sub>	m <sup>3</sup>	254.91	168.29	148.18	205.20	269.97
THERMAL SYSTEMS	Heating efficiency or COP	η <sub>H;gen</sub> or COP <sub>H;gen</sub>	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	P <sub>H;gen</sub>	kW	23.99	5.86	21.00	24.10	26.00
	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	40.00	0.00	40.00	40.00	40.00
Ŧ	DHW system power *	P <sub>W;gen</sub>	kW	-	-	-	-	-
	* These values refer to the apartment scale							





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