

Region: Calabria		Calabria						Archetype code:		
uilding	category:	Residential b	uildings – Ap	oartments (in n	nultifamily	/ blocks)		RES_AP	PBLOCK_	
Period of construction: 1991-2000							1991-2000_D_CAL			
Climatic zone: D		Number of records: 43								
		ciated with wall	s and slabs re	fer to the struct			-	Data s	ources:	
• •			and slabs refer to the structures described in UNI/TR 11552:2014): cks (12 cm + 12 cm) with uninsulated air gap (cod. MCV01).					Survey data (52%) Measured data (16%) Expert assumptions (12% Others (20%) #		
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first	Median value	Q3 (third	
	Number of floo		n.	measure	1.95	1.48	quartile)	1.00	quartile	
	Gross height		n _f	-	1.95	1.48	1.00	1.00	3.00	
			Hg	m	-	-	-	-	-	
	Footprint area		A _{footprint}	m ²	-	-	-	-	-	
Z	Heated gross floor area		A _{H;g}	m ²	-	-	-	-	-	
Ē	Heated net floor area		A _{H;n}	m ²	-	-	-	-	-	
Ş	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-	
BUILDING GEOMETRY	Heated net volume		V _{H;n}	m ³	-	-	-	-	-	
2 Z	Compactness ra	tio	A _{env} /V _{H;g}	m ⁻¹	0.44	0.18	0.31	0.37	0.53	
<u> </u>	WWR – North o	rientation	WWR _N	-	0.16	0.13	0.06	0.12	0.23	
BUI	WWR – South orientation		WWRs	-	0.18	0.16	0.06	0.13	0.26	
	WWR – East ori	entation	WWR _E	-	0.18	0.17	0.07	0.17	0.24	
	WWR – West or	ientation	WWRw	-	0.15	0.10	0.07	0.13	0.20	
	Window to useful floor area ratio		A _{wi} /A _{use}	-	0.14	0.09	0.09	0.12	0.16	
	Roof type					-				
	U-value of the roof		U _{fl;up}	W/(m²⋅K)	1.06	0.59	0.53	1.04	1.42	
	External walls type		Hollow brick masonry: 84%, Solid brick masonry: 16%							
ш	U-value of the wall		U _{wl}	W/(m²⋅K)	0.81	0.39	0.50	0.77	0.93	
9 O	Slab on ground	Slab on ground floor type		-		-				
ENVELOPE	U-value of the f	loor	U _{fl;lw}	W/(m²⋅K)	1.05	0.62	0.56	0.98	1.44	
E	Windows type		Double glazing, wooden frame: 37%, Double glazing, aluminum frame with thermal break: 25%, Double glazing, aluminum frame, no thermal break: 21%, Single glazing, wooden frame: 5%, Sing glazing, aluminum frame: 5%, Double glazing, PVC frame: 5%, Unknown: 2%							
	U-value of the windows		Uw	W/(m ² ·K)	3.19	1.20	2.60	2.80	3.80	
	Shading system type						5, Curtains: 5%, l			
	Occupancy density		Oc	person/m ²	0.036	0.018	0.025	0.031	0.045	
õ	Lighting power density *		W_L W/m ² UNI EN 16798-1 - A.8.3						0.015	
GAINS and VENTILATION		Equipment power density *		WL W/M² ONE N 16/98-1 - A.S.3 WA W/m² UNI EN 16/98-1 - A.S.3						
	Type of ventilation		Natural: 100%							
	Air exchange rate *		n	h-1	0.30	0.00	0.30	0.30	0.30	
	Heating system type				0.50			0.50	0.50	
THERMAL SYSTEMS	Heating general		Autonomous: 100% Traditional Boiler: 79%, Fireplace: 10%, Condensing Boiler: 9%, Unknown: 2%							
		ily operating time of the			101.7976,11	iepiace. 10%,			. 270	
	heating system		t _H	h	8.00	0.00	8.00	8.00	8.00	
	Energy carrier		Natural Gas: 65%, LPG: 14%, Solid biomass: 10%, Electricity: 7%, Gas Oil 2%, Unknown: 2%							
	Heating emission sub-system		Radiators: 95%, Fan coil: 5%							
	Cooling system type					Absent:	100%			
	Daily operating time of the cooling system		tc	h	-	-	-	-	-	
	Cooling emission sub-system		· ·							
	DHW system ty	pe				-				
	DHW generator									



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 – 1991/2000 – Zone D – Calabria



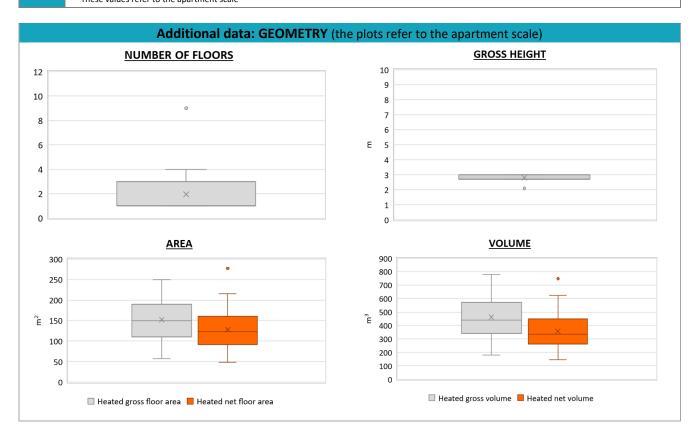


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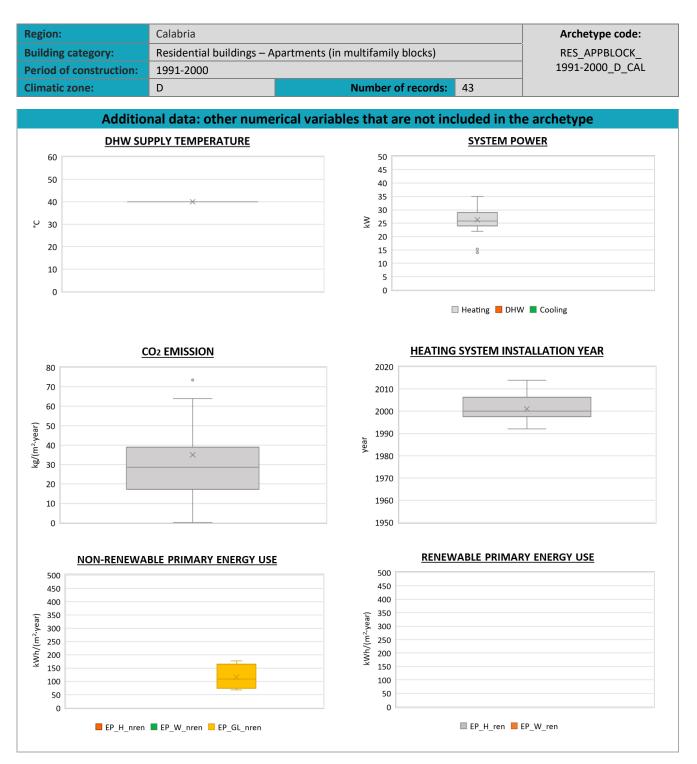
ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H _n	m	2.80	0.18	2.70	2.70	3.00
	Heated gross floor area	A _{H;g}	m²	169.76	109.48	112.53	152.67	193.50
	Heated net floor area	A _{H;n}	m ²	142.36	90.99	94.12	127.67	161.65
	Heated gross volume	V _{H;g}	m ³	520.99	358.14	345.00	450.82	594.24
	Heated net volume	V _{H;n}	m ³	400.97	271.61	267.70	344.70	456.69
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ m H;gen}$ or $COP_{ m H;gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	P _{H;gen}	kW	26.24	4.10	24.00	25.80	29.00
	Cooling efficiency or EER	η _{C;gen} or EER _{C;gen}	-	This value has to be retrieved from suitable datasheets				
	Total cooling power *	P _{C;gen}	kW	-	-	-	-	-
	Temperature of DHW	θw	°C	40.00	0.00	40.00	40.00	40.00
	DHW system power *	P _{W;gen}	kW	-	-	-	-	-
	* These values refer to the apartment scale							





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