

Region: Calabria		Calabria						Archetype code:		
Building category: Residential bu		uildings – Apartments (in multifamily blocks)					RES_APPBLOCK_			
Period of construction: 1981-1990			· · · ·		·		1981-1990_C_CAL			
Climatic zone: C		Number of records: 42								
		ciated with walls	and slabs re	fer to the structu				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 quartile)	Median value	Q3 (third quartile)	
	Number of flooi	rs	nf	-	1.98	1.63	1.00	1.00	3.00	
	Gross height		Hg	m	-	-	-	-	-	
	Footprint area		A <sub>footprint</sub>	m <sup>2</sup>	-	-	-	-	-	
	Heated gross floor area		A <sub>H;g</sub>	m²	-	-	-	-	-	
TRY	Heated net floor area		A <sub>H;n</sub>	m²	-	-	-	-	-	
ME	Heated gross vo		V <sub>H;g</sub>	m <sup>3</sup>	-	-	-	-	-	
BUILDING GEOMETRY	Heated net volume		V <sub>H;n</sub>	m <sup>3</sup>	-	-	-	-	-	
5	Compactness ratio		A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.43	0.20	0.28	0.36	0.51	
DIN	WWR – North o		WWR <sub>N</sub>	-	0.22	0.17	0.09	0.19	0.32	
Ы	WWR – South orientation		WWRs	_	0.15	0.11	0.06	0.14	0.21	
8	WWR – East orientation		WWR <sub>F</sub>	_	0.19	0.09	0.11	0.21	0.24	
	WWR – West orientation		WWRw	-	0.21	0.11	0.13	0.17	0.26	
	Window to useful floor area		A <sub>wi</sub> /A <sub>use</sub>	-	0.15	0.05	0.12	0.15	0.17	
	Roof type					-				
	U-value of the roof		U <sub>fl;up</sub>	W/(m²·K)	0.99	0.49	0.49	0.95	1.45	
ц	External walls ty	/pe		Hollow brid	_ ck masonry	': 83%, Solid br	ick masonry: 15	%, Unknown: 2%	· ·	
	U-value of the wall		U <sub>wl</sub>	W/(m²·K)	0.85	0.31	0.58	0.90	1.09	
ENVELOPE	Slab on ground floor type					-				
Ň	<i>U</i> -value of the floor		U <sub>fl;lw</sub>	W/(m²·K)	0.86	0.59	0.32	0.65	1.26	
	Windows type	dows type		Single glazing, aluminum frame: 31%, Double glazing, wooden frame: 29%, Single glazing, wooden frame: 24%, Double glazing, PVC frame: 9%, Double glazing, aluminum frame, no thermal break: 7%						
	U-value of the windows		Uw	W/(m²·K)	3.45	1.30	2.80	3.05	4.00	
	Shading system	type		Shutte	r: 50%, Rol	ler blinds: 45%	, Curtains: 3%, l	Jnknown: 2%		
z	Occupancy dens	sity	Oc	person/m <sup>2</sup>	0.034	0.013	0.027	0.034	0.041	
and TIO	Lighting power density *		WL	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3					
GAINS and VENTILATION	Equipment power density *		WA W/m² UNI EN 16798-1 - A.8.3							
<b>ENT</b>	Type of ventilation		Natural: 100%							
- <b>&gt;</b>	Air exchange ra	te *	n	h-1	0.30	0.00	0.30	0.30	0.30	
THERMAL SYSTEMS	Heating system type				Auto	nomous: 98%,	Centralized: 2%	5		
	Heating generat	or	Traditional Boiler: 86%, Condensing Boiler: 7%, Fireplace: 5%, Air-source heat pump: 2%							
	Daily operating time of the heating system *		t <sub>H</sub>	h	8.00	0.00	8.00	8.00	8.00	
	Energy carrier	Energy carrier		Natural Gas: 74%, LPG: 14%, Solid biomass: 45%, Electricity: 2%, Unknown: 5%						
	Heating emission sub-system		Radiators: 95%, Fan coil: 3%, Unknown: 2%							
	Cooling system type		Absent: 97%, Air-cooled 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 ty	be				-				
	DHW generator					-				
	# Standards (8%) M	unicipal database (	%) EPC datab	ace (1%)						



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 – 1981/1990 – Zone C – Calabria



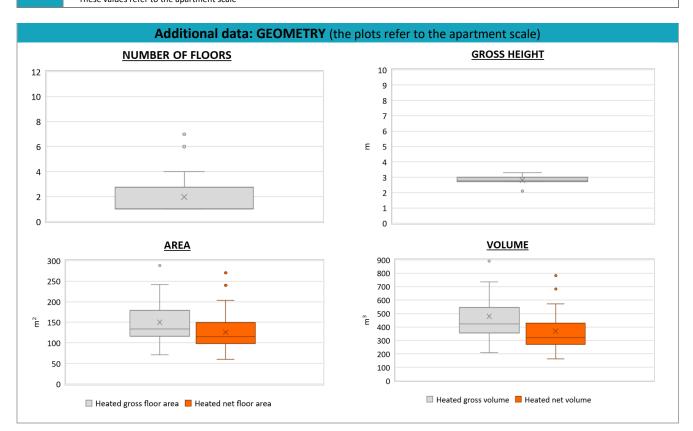


 $\fbox{0}$ 



Region:	Calabria	Archetype code: RES_APPBLOCK_		
Building category:	Residential buildings – A			
Period of construction:	1981-1990	1981-1990_C_CAL		
Climatic zone:	С	Number of records:	42	

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	2.81	0.18	2.70	2.78	3.00
	Heated gross floor area	A <sub>H;g</sub>	m²	155.02	61.27	116.82	133.98	180.49
	Heated net floor area	A <sub>H;n</sub>	m²	129.90	51.41	98.56	115.05	150.00
	Heated gross volume	V <sub>H;g</sub>	m <sup>3</sup>	479.72	213.36	354.75	423.53	545.73
	Heated net volume	V <sub>H;n</sub>	m <sup>3</sup>	368.34	162.69	271.57	319.69	427.50
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	25.58	2.66	24.00	25.00	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					<u>.</u>	





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 – 1981/1990 – Zone C – Calabria



