

Region: Calabria								Archetype code:			
Building category: Residential bu			uildings – Apartments (in multifamily blocks)					RES_APPBLOCK_			
Period of construction: 1991-2000 Climatic zone: D							1991-2000_D_CAL				
		Number of records: 43					1				
•				and slabs refer to the structures described in UNI/TR 11552:2014): cks (12 cm + 12 cm) with uninsulated air gap (cod. MCV01).					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	rs	nf	-	1.95	1.48	1.00	1.00	3.00		
	Gross height		Hg	m	-	-	-	-	-		
	Footprint area		A _{footprint}	m ²	_	-	_				
	Heated gross floor area		A _{H;g}	m ²		-	-	_			
RY	Heated gross floor area Heated net floor area			m ²					-		
Ē			A _{H;n}	m ³	-	-	-	-	-		
BUILDING GEOMETRY	Heated gross volume		V _{H;g} V _{H;n}	m ³	-	-	-	-	-		
5	Heated net volume		VH;n Aenv/VH;g	m ⁻¹	- 0.44	0.18	0.31	0.37	0.53		
NIC	Compactness ratio			-		0.18	0.06		0.33		
	WWR – North orientation		WWR _N	-	0.16			0.12			
В	WWR – South orientation		WWRs M/M/R	-	0.18	0.16	0.06	0.13	0.26		
	WWR – East orientation		WWR _E	-	0.18	0.17	0.07	0.17	0.24		
	WWR – West orientation Window to useful floor area		WWR _W	-	0.15	0.10	0.07	0.13	0.20		
	ratio	ratio			0.11	0.05	0.05	0.12	0.10		
	Roof type					-		1	1		
	U-value of the r		U _{fl;up}	W/(m²·K)	1.06	0.59	0.53	1.04	1.42		
	External walls ty	rnal walls type Hollow brick masonry: 84%, Solid brick masonry: 16%						1			
ň	U-value of the v	U-value of the wall		W/(m²⋅K)	0.81	0.39	0.50	0.77	0.93		
ğ	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		
Ē	Windows type	Nindows 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%, Single 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		0 10				, Curtains: 5%,		0.00		
		• • •		person/m ²	0.036	0.018	0.025	0.031	0.045		
	Occupancy density Lighting power density *		0 _C W _L	W/m ²	0.050	UNI EN 16798-1 - A.8.3					
LAT		Equipment power density *		WL W/M² UNI EN 16798-1 - A.8.3 WA W/m² UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation		Natural: 100%								
	Air exchange ra		n	h-1	0.30	0.00	0.30	0.30	0.30		
	Heating system				0.50	Autonomou		0.50	0.50		
S	Heating general		Traditional Boiler: 79%, Fireplace: 10%, Condensing Boiler: 9%, Unknown: 2%								
	Daily operating					cpiace. 10%, (
	heating system		t _H	h	8.00	0.00	8.00	8.00	8.00		
2 E	Energy carrier		Natu	Natural Gas: 65%, LPG: 14%, Solid biomass: 10%, Electricity: 7%, Gas Oil 2%, Unknown: 2%							
THERMAL SYSTEMS	Heating emission sub-system		Radiators: 95%, Fan coil: 5%								
	Cooling system type		ļ,			Absent:	100%	1	1		
	Daily operating time of the cooling system		tc	h	-	-	-	-	-		
	Cooling emission sub-system		-								
	DHW system ty	pe				-					
	DHW generator -										
			8%), EPC datab	(40()							

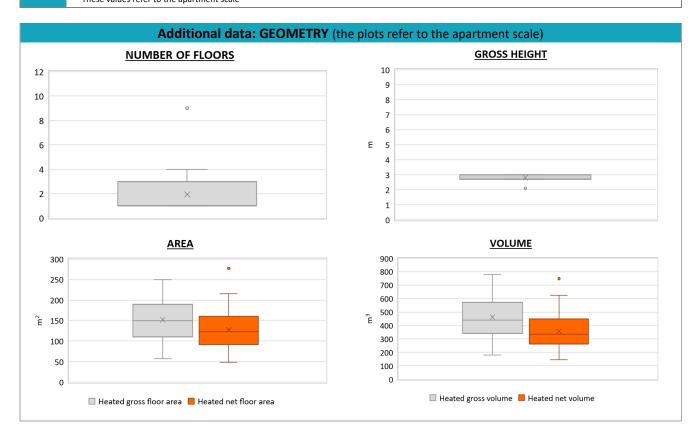






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Building category:	Residential buildings – A	RES_APPBLOCK_			
Period of construction:	1991-2000	1991-2000_D_CAL			
Climatic zone:	D	Number of records:	43		

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}	m²	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
9 9	Heated net volume	V _{H;n}	m ³	400.97	271.61	267.70	344.70	456.69
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{\rm H;gen}$ or $COP_{\rm H;gen}$ - This value has to be retrieved from			n 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	θ_{W}	°C	40.00	0.00	40.00	40.00	40.00
Ē.	DHW system power *	P _{W;gen}	kW	-	-	-	-	-
	* These values refer to the apartment s	cale						



Residential buildings – Apartment blocks – 1991/2000 – Zone D – Calabria



