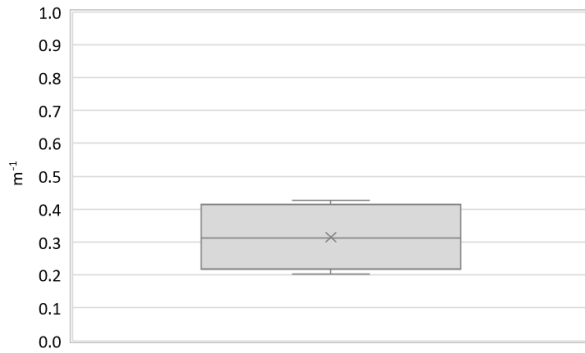


Region:	Calabria					Archetype code: RES_APPBLOCK_ 1971-1980_B_CAL		
Building category:	Residential buildings – Apartments (in multifamily blocks)							
Period of construction:	1971-1980							
Climatic zone:	B	Number of records:		6				
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: double layer of hollow bricks (12 cm + 25 cm) with uninsulated air gap (cod. MCV01). Roof slabs: no data available						Data sources: Survey data (52%) Measured data (16%) Expert assumptions (13%) Others (19%) #		
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
BUILDING GEOMETRY	Number of floors	n_f	-	1.17	0.41	1.00	1.00	1.00
	Gross height	H_g	m	-	-	-	-	-
	Footprint area	$A_{\text{footprint}}$	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	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.32	0.09	0.22	0.31	0.42
	WWR – North orientation	WWR_N	-	0.15	0.11	0.05	0.11	0.27
	WWR – South orientation	WWR_S	-	0.17	0.03	0.16	0.17	0.18
	WWR – East orientation	WWR_E	-	0.25	0.11	0.13	0.21	0.37
	WWR – West orientation	WWR_W	-	0.23	0.09	0.12	0.21	0.30
	Window to useful floor area ratio	A_{wi}/A_{use}	-	0.16	0.03	0.14	0.15	0.20
ENVELOPE	Roof type	-						
	U-value of the roof	$U_{fi,up}$	W/(m ² ·K)	0.89	0.60	0.34	0.69	1.61
	External walls type	Hollow brick masonry: 100%						
	U-value of the wall	U_{wi}	W/(m ² ·K)	0.62	0.36	0.29	0.54	1.01
	Slab on ground floor type	-						
	U-value of the floor	$U_{fi,lw}$	W/(m ² ·K)	0.83	0.52	0.35	0.67	1.44
	Windows type	Single glazing, aluminum frame: 50%, Double glazing, aluminum frame, no thermal break: 17%, Double glazing, wooden frame: 17%, Single glazing, wooden frame: 16%						
	U-value of the windows	U_W	W/(m ² ·K)	3.53	1.07	2.80	2.88	4.90
Shading system type	Roller blinds: 100%							
GAINS and VENTILATION	Occupancy density	O_C	person/m ²	0.036	0.013	0.024	0.035	0.045
	Lighting power density *	W_L	W/m ²	UNI EN 16798-1 - A.8.3				
	Equipment power density *	W_A	W/m ²	UNI EN 16798-1 - A.8.3				
	Type of ventilation	Natural: 100%						
	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30
THERMAL SYSTEMS	Heating system type	Autonomous: 83%, Centralized: 17%						
	Heating generator	Traditional Boiler: 67%, Condensing Boiler: 17%, Unknown: 16%						
	Daily operating time of the heating system *	t_H	h	8.00	0.00	8.00	8.00	8.00
	Energy carrier	Natural Gas: 83%, Unknown: 17%						
	Heating emission sub-system	Radiators: 83%, Unknown: 17%						
	Cooling system type	Absent: 100%						
	Daily operating time of the cooling system	t_C	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Autonomous – coupled with heating: 100%						
	DHW generator	Natural gas boiler: 100%						
	# Standards (8%), Municipal database (7%), EPC database (4%). * These values were not available in the considered sources, and are thus derived from UNI EN Standards							

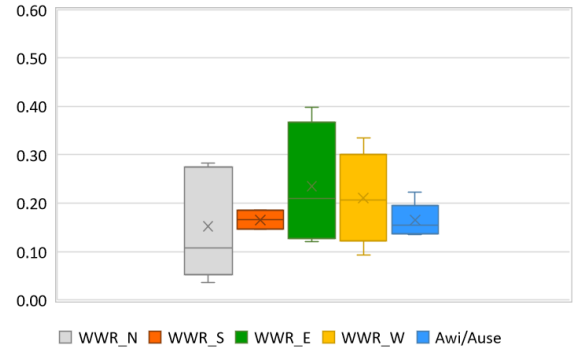
Region:	Calabria	Archetype code: RES_APPBLOCK_ 1971-1980_B_CAL
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1971-1980	
Climatic zone:	B	
Number of records:		6

Numerical variables – GEOMETRY

COMPACTNESS RATIO

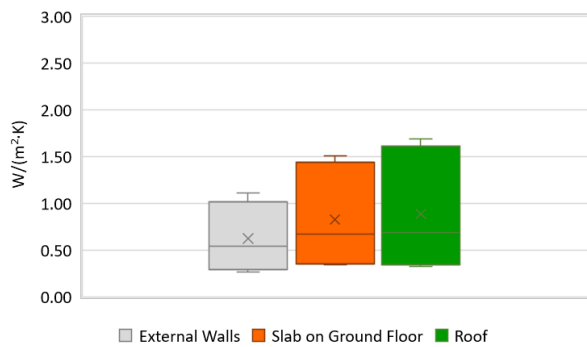


WINDOWS TO WALL RATIO

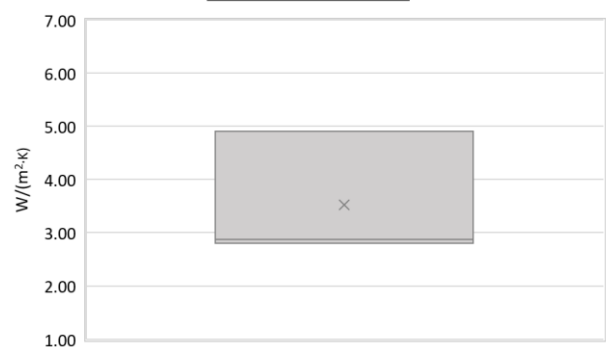


Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE



WINDOWS U-VALUE

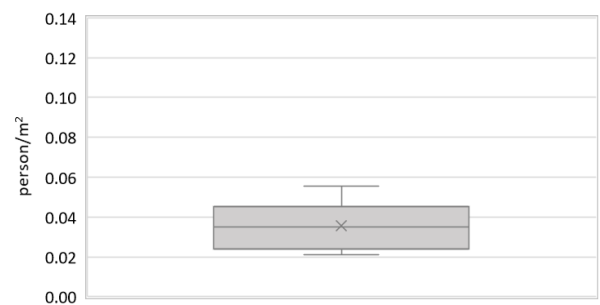


Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE



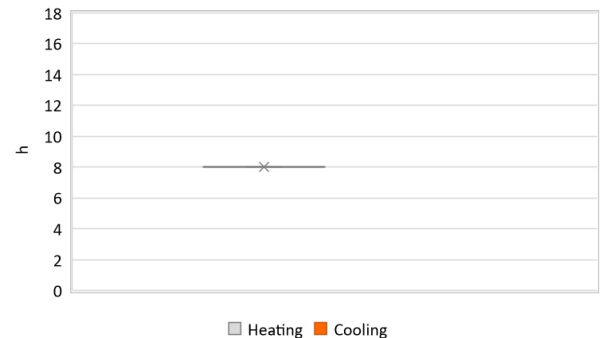
OCCUPANCY DENSITY



INTERNAL GAINS POWER DENSITY



DAILY OPERATING TIME

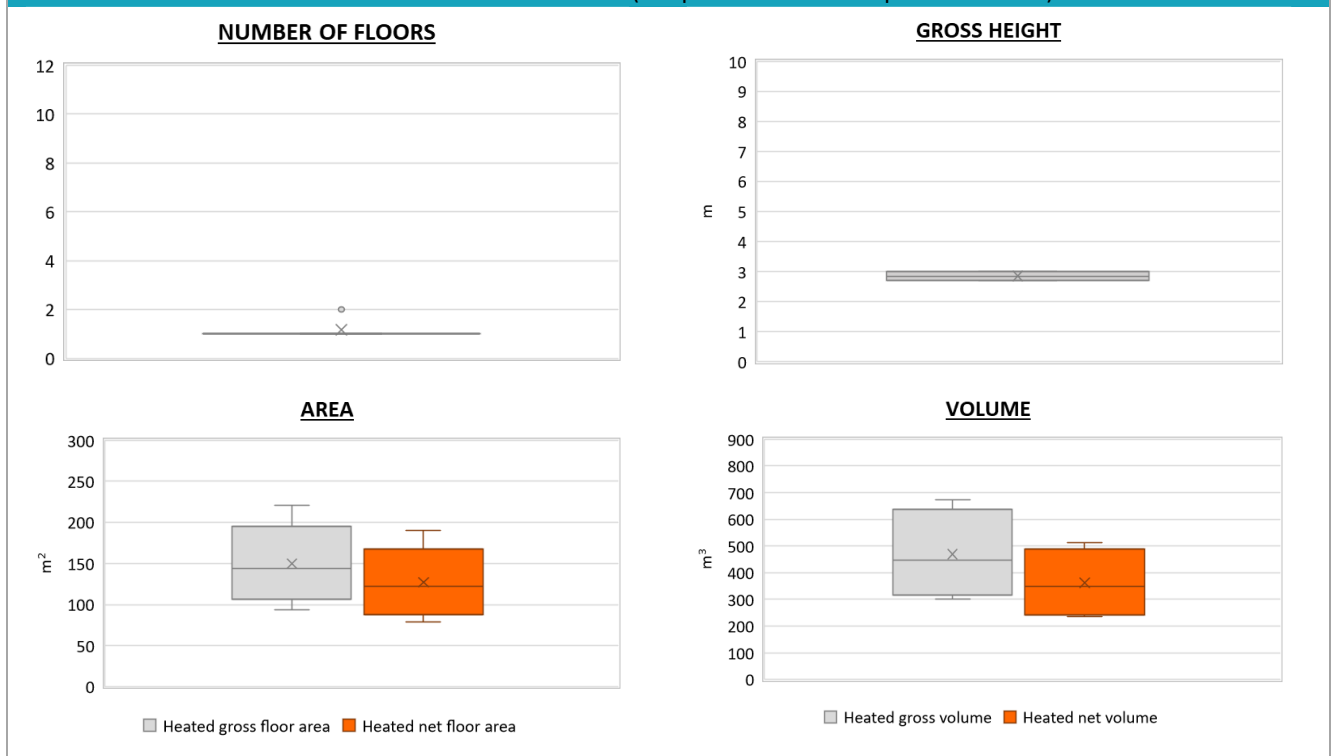


Region:	Calabria	Archetype code: RES_APPBLOCK_ 1971-1980_B_CAL
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1971-1980	
Climatic zone:	B	
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H_n	m	2.85	0.16	2.70	2.85	3.00
	Heated gross floor area	$A_{H,g}$	m ²	150.01	47.22	106.38	144.04	195.45
	Heated net floor area	$A_{H,n}$	m ²	127.38	41.93	87.25	122.63	167.50
	Heated gross volume	$V_{H,g}$	m ³	469.14	155.96	314.76	446.95	638.47
	Heated net volume	$V_{H,n}$	m ³	362.16	116.93	241.50	349.99	488.25
THERMAL SYSTEMS	Heating efficiency or <i>COP</i>	$\eta_{H,gen}$ or $COP_{H,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	$P_{H,gen}$	kW	25.76	2.43	24.00	24.00	28.40
	Cooling efficiency or <i>EER</i>	$\eta_{C,gen}$ 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
	DHW system power	$P_{W,gen}$	kW	-	-	-	-	-

* These values refer to the apartment scale

Additional data: GEOMETRY (the plots refer to the apartment scale)



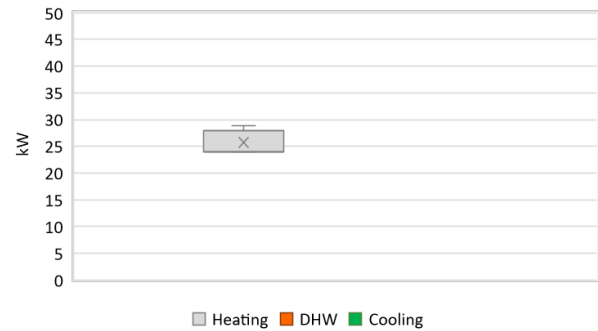
Region:	Calabria	Archetype code: RES_APPBLOCK_ 1971-1980_B_CAL
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1971-1980	
Climatic zone:	B	
Number of records:		6

Additional data: other numerical variables that are not included in the archetype

DHW SUPPLY TEMPERATURE



SYSTEM POWER



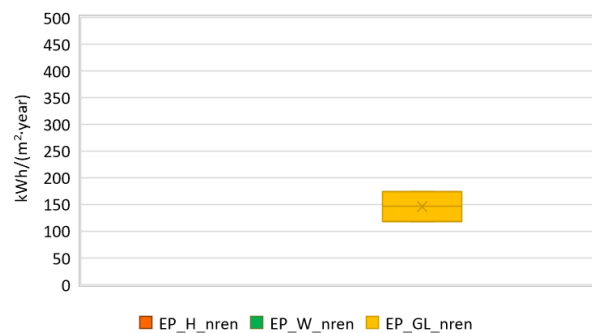
CO₂ EMISSION



HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

