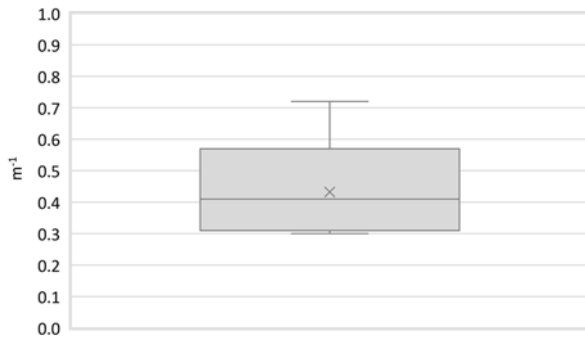


Region:	Sicily					Archetype code: RES_APPBLOCK_ 1951-1960_B_SIC		
Building category:	Residential buildings – Apartments (in multifamily blocks)							
Period of construction:	1951-1960							
Climatic zone:	B	Number of records:		28				
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: double layer of hollow bricks (8 cm + 12 cm) with uninsulated air gap (cod. MCV01). Roof slabs: reinforced brick-concrete slab (22 cm) plus uninsulated concrete screed (4 cm) (cod. SOL04)						Data sources: Survey data (45%) Expert assumptions (39%) Municipal database (1%) Others (15%) #		
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
BUILDING GEOMETRY	Number of floors	$n_f$	-	7.00	0.00	7.00	7.00	7.00
	Gross height	$H_g$	m	-	-	-	-	-
	Footprint area	$A_{\text{footprint}}$	m <sup>2</sup>	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m <sup>2</sup>	-	-	-	-	-
	Heated net floor area	$A_{H;n}$	m <sup>2</sup>	-	-	-	-	-
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	-	-	-	-	-
	Heated net volume	$V_{H;n}$	m <sup>3</sup>	-	-	-	-	-
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m <sup>-1</sup>	0.43	0.13	0.31	0.41	0.57
	WWR – North orientation	$WWR_N$	-	0.22	0.05	0.22	0.22	0.22
	WWR – South orientation	$WWR_S$	-	0.14	0.00	0.14	0.14	0.14
	WWR – East orientation	$WWR_E$	-	0.18	0.04	0.13	0.18	0.22
	WWR – West orientation	$WWR_W$	-	0.18	0.04	0.13	0.18	0.22
	Window to useful floor area ratio	$A_{wi}/A_{\text{use}}$	-	0.17	0.06	0.12	0.15	0.23
	ENVELOPE	Roof type	Reinforced brick-concrete slab: 100%					
U-value of the roof		$U_{fi,up}$	W/(m <sup>2</sup> ·K)	1.36	0.00	1.36	1.36	1.36
External walls type		Hollow brick masonry: 100%						
U-value of the wall		$U_{wl}$	W/(m <sup>2</sup> ·K)	1.17	0.006	1.17	1.17	1.17
Slab on ground floor type		Reinforced brick-concrete slab: 100%						
U-value of the floor		$U_{fi,lw}$	W/(m <sup>2</sup> ·K)	1.55	0.00	1.55	1.55	1.55
Windows type		Single glazing, aluminium frame: 100%						
U-value of the windows		$U_W$	W/(m <sup>2</sup> ·K)	6.12	0.00	6.12	6.12	6.12
Shading system type	Shutter: 100%							
GAINS and VENTILATION	Occupancy density *	$O_C$	person/m <sup>2</sup>	UNI EN 16798-1 – Table A.19				
	Lighting power density *	$W_L$	W/m <sup>2</sup>	UNI EN 16798-1 – A.8.3				
	Equipment power density *	$W_A$	W/m <sup>2</sup>	UNI EN 16798-1 – A.8.3				
	Type of ventilation	Natural: 100%						
	Air exchange rate *	$n$	h <sup>-1</sup>	0.30	0.00	0.30	0.30	0.30
THERMAL SYSTEMS	Heating system type	Autonomous: 71%, Absent: 29%						
	Heating generator	Air source heat pump: 100%						
	Daily operating time of the heating system *	$t_H$	h	8.00	0.00	8.00	8.00	8.00
	Energy carrier	Electricity: 100%						
	Heating emission sub-system	Fan coil: 100%						
	Cooling system type	Absent: 71%, Air-cooled chiller: 29%						
	Daily operating time of the cooling system *	$t_C$	h	8.00	0.00	8.00	8.00	8.00
	Cooling emission sub-system	Fan coil: 100%						
	DHW system type	Autonomous - detached from heating: 100%						
	DHW generator	Electric boiler: 89%, LPG-boiler: 11%						
	# Standards (13%), APE (2%). * These values were not available in the considered sources, and are thus derived from UNI EN Standards							

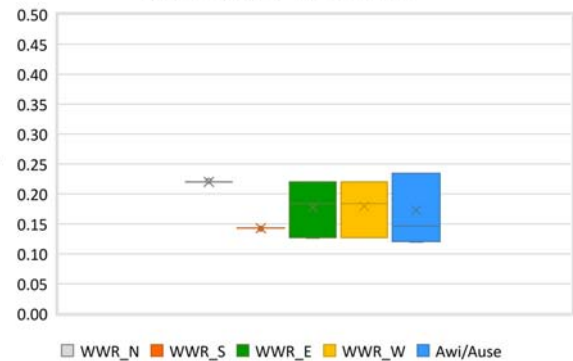
Region:	Sicily	Archetype code: RES_APPBLOCK_ 1951-1960_B_SIC
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1951-1960	
Climatic zone:	B	
Number of records:		28

### Numerical variables – GEOMETRY

**COMPACTNESS RATIO**

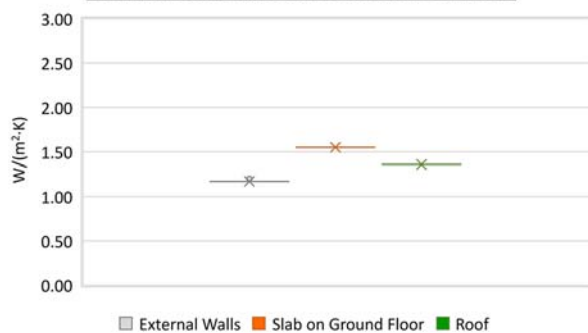


**WINDOWS TO WALL RATIO**



### Numerical variables – ENVELOPE

**OPAQUE BUILDING COMPONENTS U-VALUE**

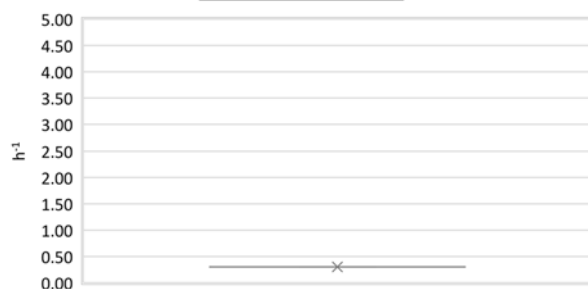


**WINDOWS U-VALUE**



### Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

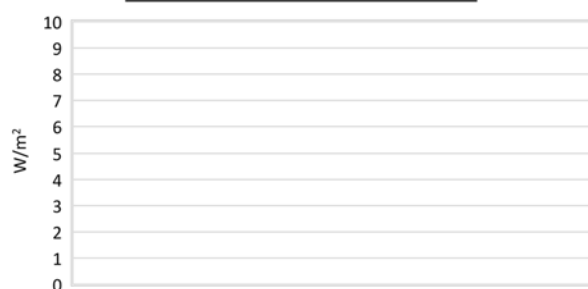
**AIR EXCHANGE RATE**



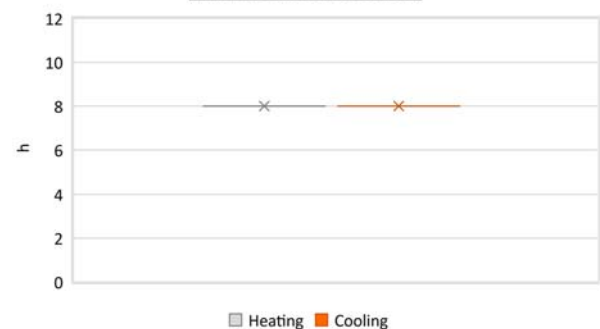
**OCCUPANCY DENSITY**



**INTERNAL GAINS POWER DENSITY**



**DAILY OPERATING TIME**



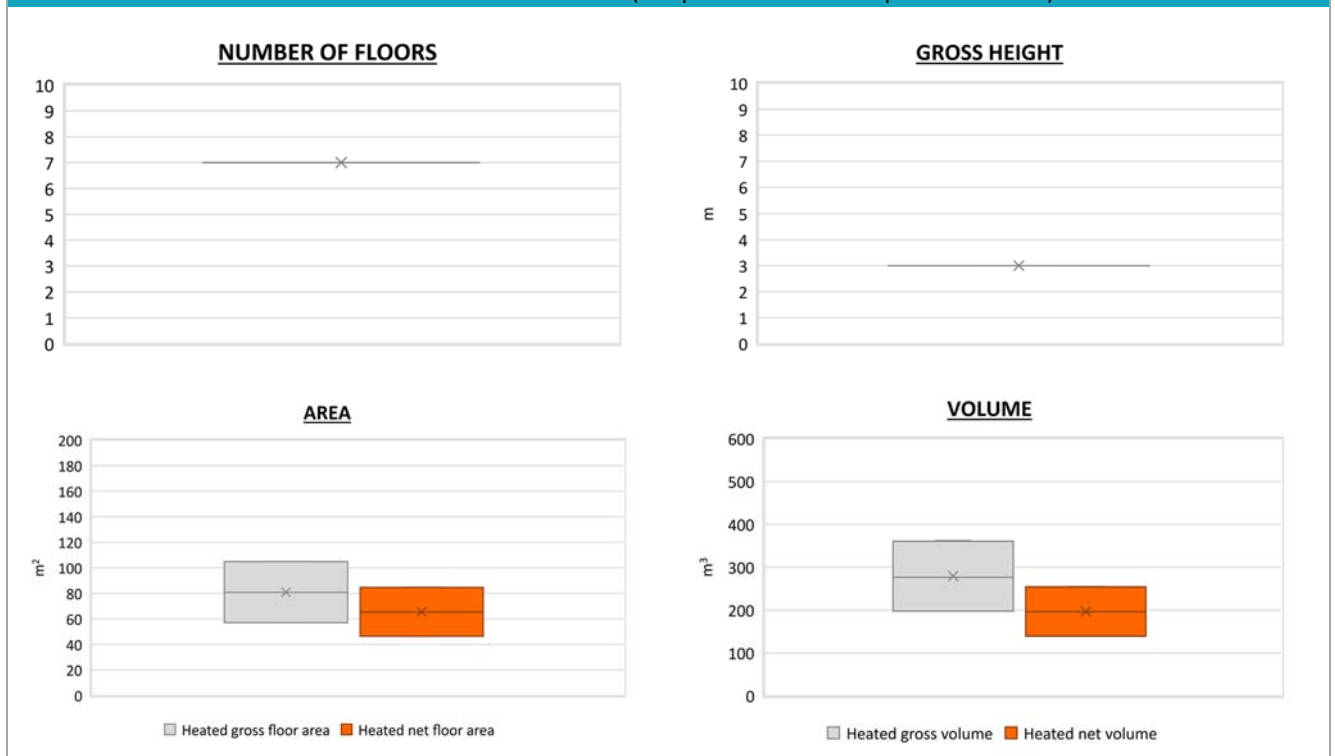
The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.

Region:	Sicily	Archetype code: RES_APPBLOCK_ 1951-1960_B_SIC
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1951-1960	
Climatic zone:	B	
Number of records:		28

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	3.00	0.00	3.00	3.00	3.00
	Heated gross floor area	$A_{H,g}$	m <sup>2</sup>	80.92	24.26	57.10	80.80	104.62
	Heated net floor area	$A_{H,n}$	m <sup>2</sup>	65.53	19.45	46.44	65.38	84.48
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	279.37	83.05	197.80	276.70	360.52
	Heated net volume	$V_{H,n}$	m <sup>3</sup>	196.57	58.43	139.20	196.20	253.57
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{H,gen}$ or $COP_{H,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	$P_{H,gen}$	kW	6.36	1.17	4.80	7.20	7.20
	Cooling efficiency or EER	$\eta_{C,gen}$ or $EER_{C,gen}$	-	This value has to be retrieved from suitable datasheets				
	Total cooling power *	$P_{C,gen}$	kW	2.30	0.00	2.30	2.30	2.30
	Temperature of DHW	$\theta_w$	°C	40.00	0.00	40.00	40.00	40.00
	DHW system power *	$P_{W,gen}$	kW	3.74	6.43	1.20	1.20	1.20

\* These values refer to the apartment scale

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



Region:	Sicily	Archetype code: RES_APPBLOCK_ 1951-1960_B_SIC
Building category:	Residential buildings – Apartments (in multifamily blocks)	
Period of construction:	1951-1960	
Climatic zone:	B	
Number of records:		28

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

