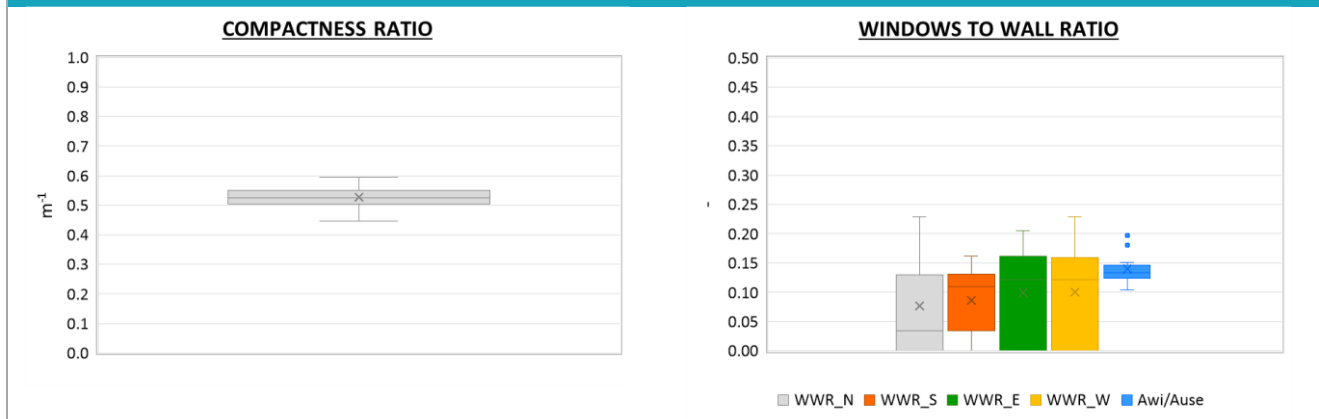


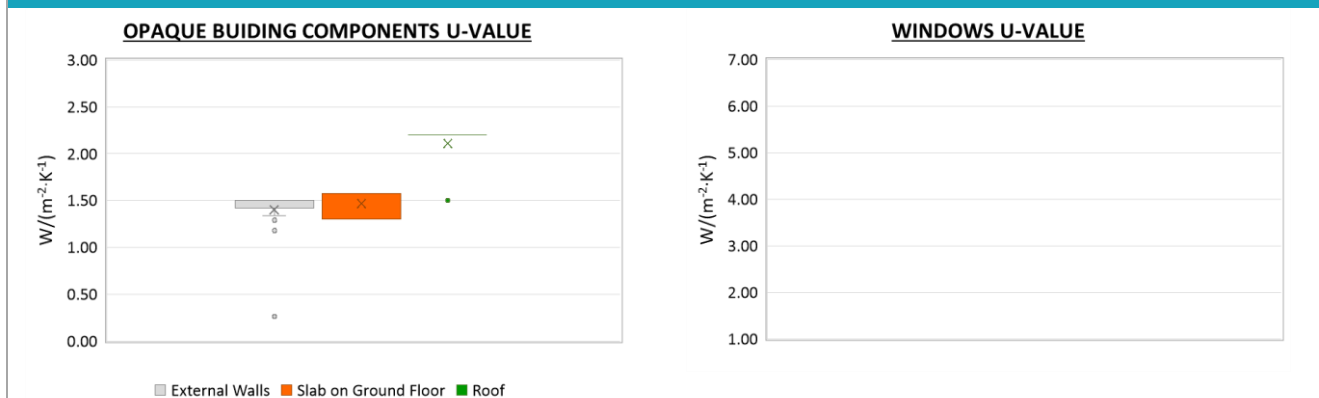
Region:		Tuscany					Archetype code: RES_APPBLOCK_ 1941-1950_D_TUS	
Building category:		Entire multi-family block						
Period of construction:		1941-1950						
Climatic zone:		D	Number of records:		23			
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: plaster (2 cm) - mixed brick and stone (40 cm) - plaster (2 cm) (cod. MCO01). Roof slabs: slab with brick reinforced beams and hollow brick tiles (6 cm) (cod. -)							Data sources: Visual inspection (39%) National database (15%) Standards (15%) Others (31%) #	
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
BUILDING GEOMETRY	Number of floors	n_f	-	3.30	0.55	3.00	3.00	3.50
	Gross height	H_g	m	11.21	1.80	10.20	10.20	11.90
	Footprint area	$A_{\text{footprint}}$	m ²	314.57	114.86	207.55	301.40	361.20
	Heated gross floor area	$A_{H,g}$	m ²	999.98	478.05	656.37	896.40	1100.16
	Heated net floor area	$A_{H,n}$	m ²	852.18	410.37	560.47	765.44	939.43
	Heated gross volume	$V_{H,g}$	m ³	3390.01	1606.69	2231.66	3047.76	3740.54
	Heated net volume	$V_{H,n}$	m ³	2559.01	1228.55	1681.42	2296.31	2818.28
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.53	0.04	0.50	0.52	0.55
	WWR – North orientation	WWR_N	-	0.08	0.08	0.00	0.03	0.13
	WWR – South orientation	WWR_S	-	0.09	0.06	0.03	0.11	0.13
	WWR – East orientation	WWR_E	-	0.10	0.07	0.00	0.12	0.16
	WWR – West orientation	WWR_W	-	0.10	0.08	0.00	0.12	0.16
	Window to useful floor area ratio	A_{wi}/A_{use}	-	0.14	0.02	0.12	0.13	0.15
	ENVELOPE	Roof type	Reinforced brick-concrete slab: 100%.					
U-value of the roof		$U_{f,up}$	W/(m ² ·K)	2.11	0.24	2.20	2.20	2.20
External walls type		Masonry with local stones: 87%; Solid brick masonry: 9%; Hollow brick masonry: 4%						
U-value of the wall		U_{wl}	W/(m ² ·K)	1.40	0.26	1.42	1.50	1.50
Slab on ground floor type		Ventilated crawl space: 61%; Reinforced brick-concrete slab: 39%.						
U-value of the floor		$U_{f,lw}$	W/(m ² ·K)	1.47	0.13	1.30	1.58	1.58
Windows type		Unknown: 100%						
U-value of the windows		U_W	W/(m ² ·K)	-	-	-	-	-
Shading system type		Roller blinds: 52%; Shutter: 48%						
GAINS and VENTILATION	Occupancy density *	O_C	person/m ²	UNI EN 16798-1 - Table A.19				
	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: 100%						
	Heating generator	Boiler (unknown type): 100%.						
	Daily operating time of the heating system *	t_H	h	12.00	0.00	12.00	12.00	12.00
	Energy carrier	Natural gas: 100%.						
	Heating emission sub-system	Unknown: 100%						
	Cooling system type	Absent: 55%; Unknown: 30%; Air-cooled chiller: 15%.						
	Daily operating time of the cooling system	t_C	h	12.00	0.00	12.00	12.00	12.00
	Cooling emission sub-system	Multisplit: 100%						
	DHW system type	Autonomous, coupled with heating: 100%.						
	DHW generator	Natural gas boiler: 100%.						
# Measured data (13%), Local database (8%), Other (6%), Standards (4%).								
* These values were not available in the considered sources, and are thus derived from UNI EN Standards								

Region:	Tuscany	Archetype code: RES_APPBLOCK_ 1941-1950_D_TUS
Building category:	Entire multi-family block	
Period of construction:	1941-1950	
Climatic zone:	D	
Number of records:		23

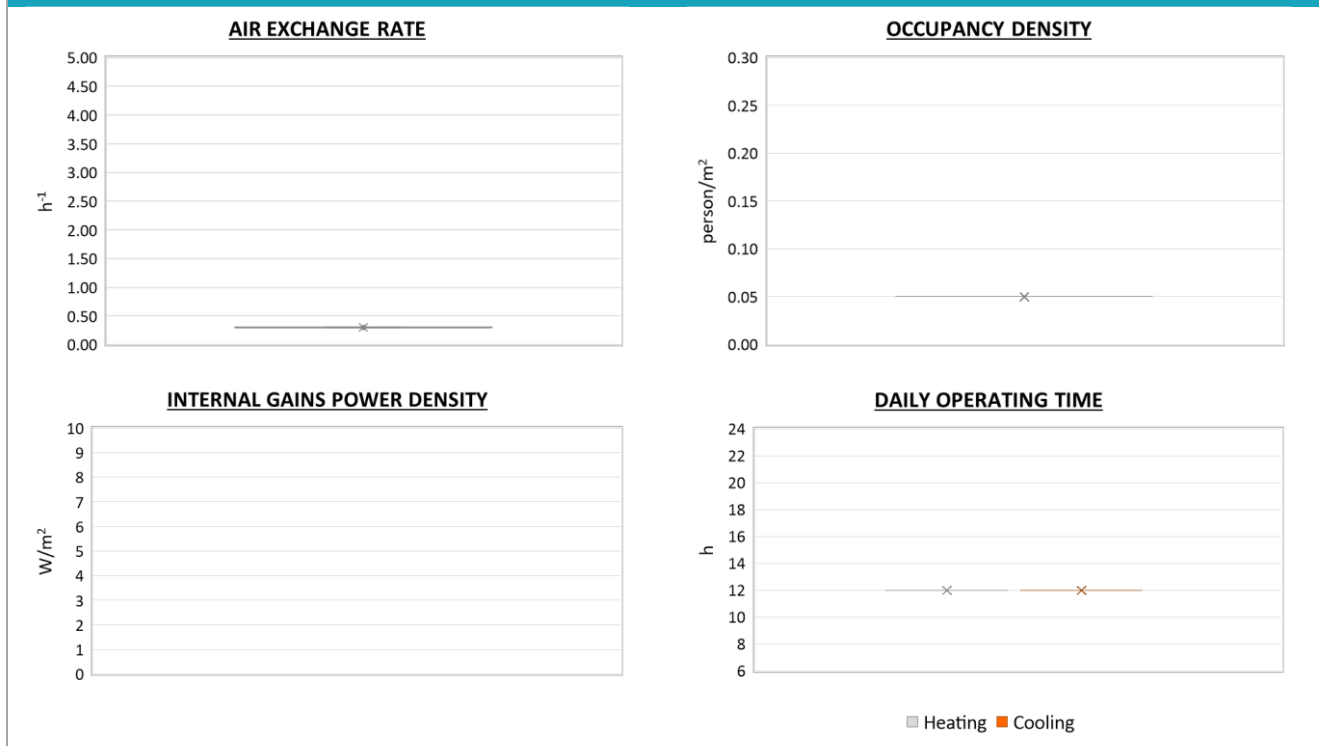
Numerical variables – GEOMETRY



Numerical variables – ENVELOPE



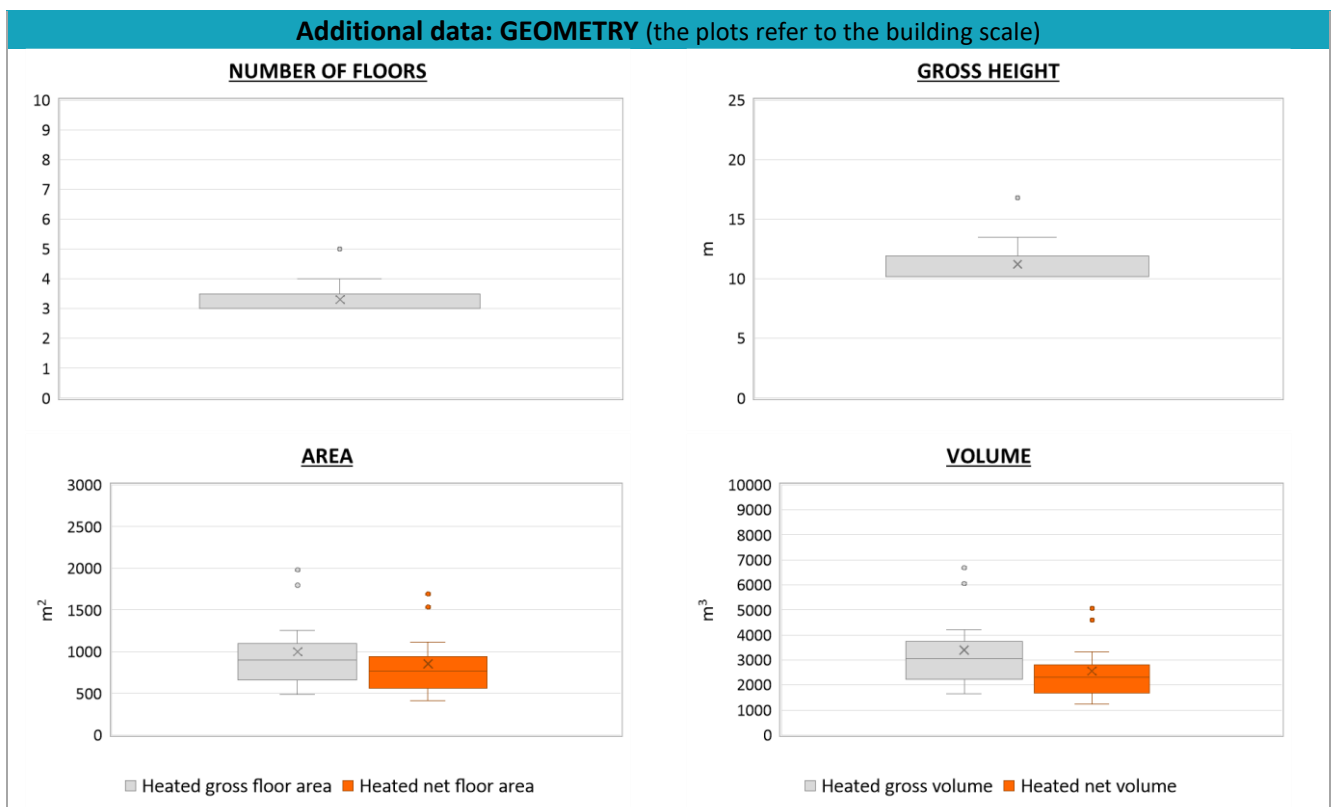
Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE



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:	Tuscany	Archetype code: RES_APPBLOCK_ 1941-1950_D_TUS
Building category:	Entire multi-family block	
Period of construction:	1941-1950	
Climatic zone:	D	
Number of records:		23

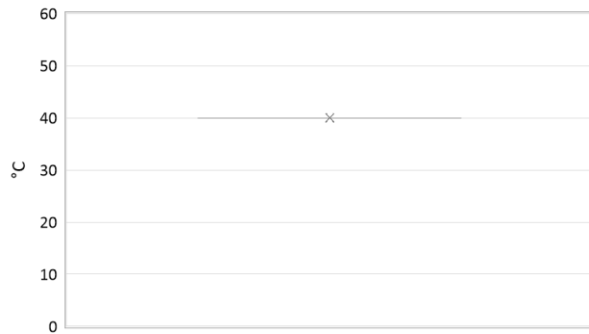
ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H_n	m	-	-	-	-	-
	Heated gross floor area	$A_{H,g}$	m ²	-	-	-	-	-
	Heated net floor area	$A_{H,n}$	m ²	-	-	-	-	-
	Heated gross volume	$V_{H,g}$	m ³	-	-	-	-	-
	Heated net volume	$V_{H,n}$	m ³	-	-	-	-	-
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	-	-	-	-	-
	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								



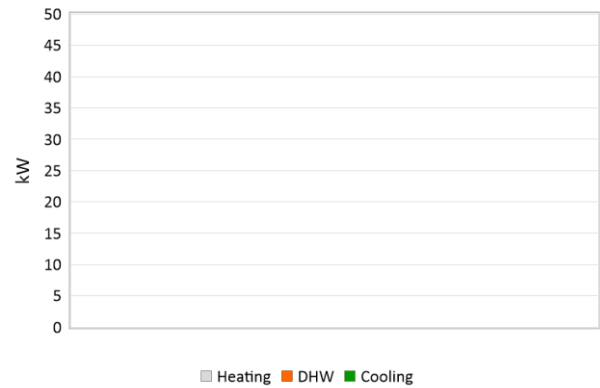
Region:	Tuscany	Archetype code: RES_APPBLOCK_ 1941-1950_D_TUS
Building category:	Entire multi-family block	
Period of construction:	1941-1950	
Climatic zone:	D	
Number of records:		23

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

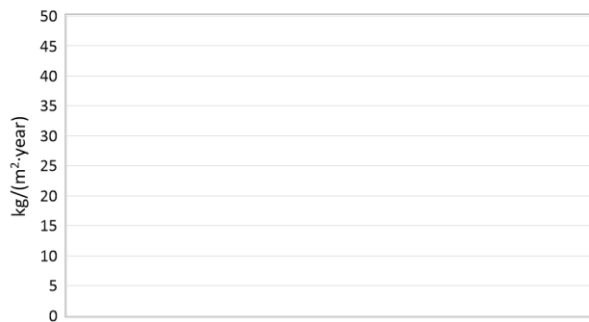
DHW SUPPLY TEMPERATURE



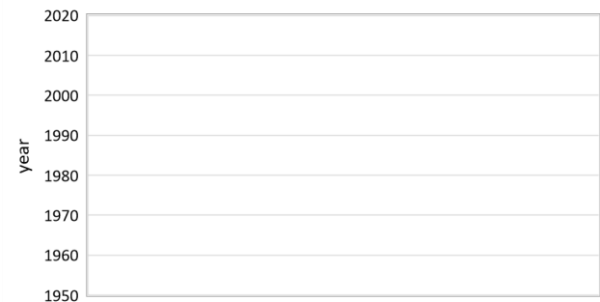
SYSTEM POWER



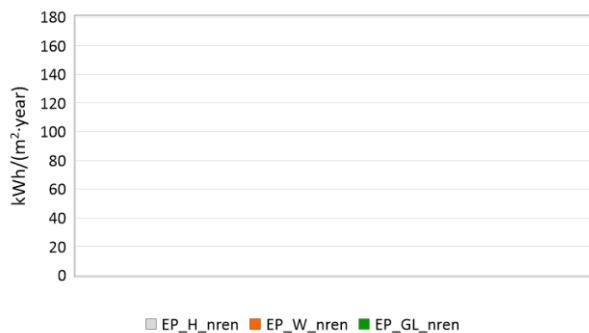
CO₂ EMISSION



HEATING SYSTEM INSTALLATION YEAR



NON-RENEWABLE PRIMARY ENERGY USE



RENEWABLE PRIMARY ENERGY USE

