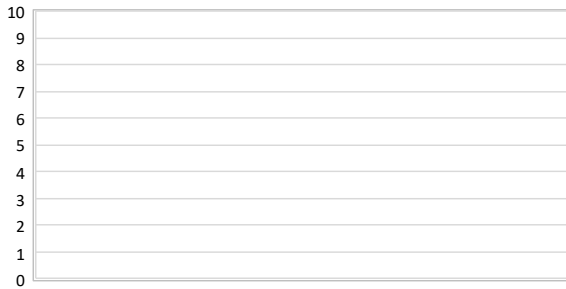
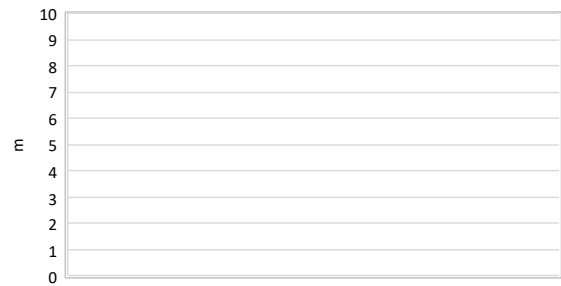
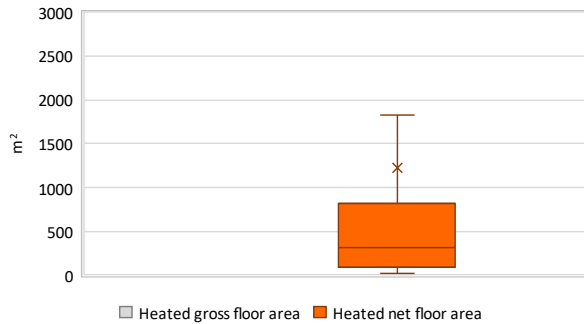
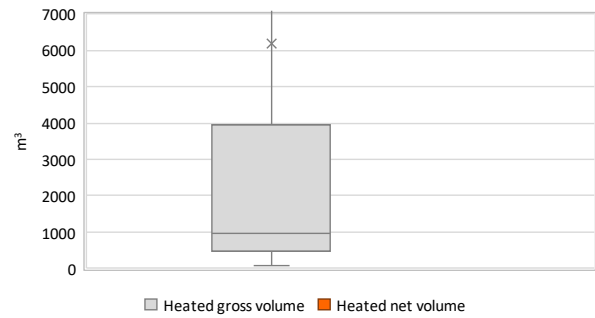
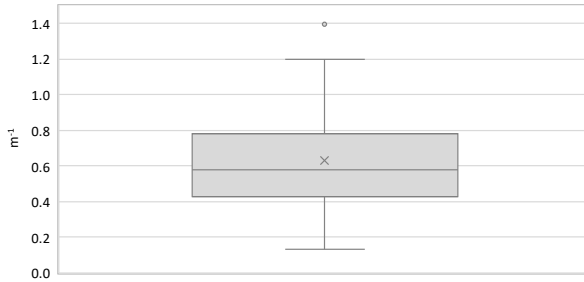
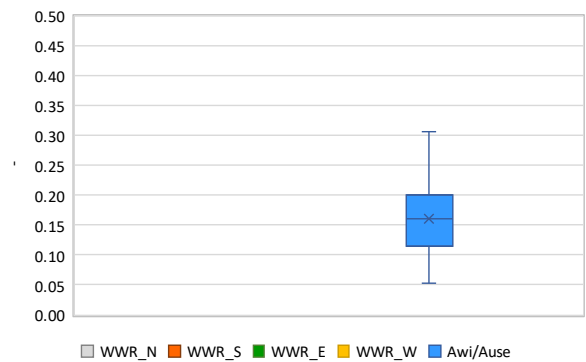


Region:		Piedmont					Archetype code:		
Building category:		Non-residential buildings - Offices					OFF_1931-1940_E_PIE		
Period of construction:		1931-1940							
Climatic zone:		E	Number of records:		32				
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):						Data sources:			
External walls: solid brick masonry (cod. MLP01).						EPC databases (100%)			
Roof slabs: pitched wooden roof (cod. CIN05).									
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
BUILDING GEOMETRY	Number of floors	n_f	-	-	-	-	-	-	
	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	1215.7	3059.4	92.8	307.0	821.8	
	Heated gross volume	$V_{H,g}$	m ³	6181.1	17271.1	454.8	956.8	3963.9	
	Heated net volume	$V_{H,n}$	m ³	-	-	-	-	-	
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m ⁻¹	0.63	0.30	0.43	0.58	0.78	
	WWR – North orientation	WWR_N	-	-	-	-	-	-	
	WWR – South orientation	WWR_S	-	-	-	-	-	-	
	WWR – East orientation	WWR_E	-	-	-	-	-	-	
	WWR – West orientation	WWR_W	-	-	-	-	-	-	
	Window to useful floor area ratio	A_{wi}/A_{use}	-	0.16	0.07	0.11	0.16	0.20	
ENVELOPE	Roof type	-							
	U-value of the roof	$U_{fi,up}$	W/(m ² ·K)	-	-	-	-	-	
	External walls type	Solid Brick masonry: 78%; Hollow brick masonry: 19%; Unknown: 3%							
	U-value of the wall	U_{wl}	W/(m ² ·K)	-	-	-	-	-	
	Slab on ground floor type	-							
	U-value of the floor	$U_{fi,lw}$	W/(m ² ·K)	-	-	-	-	-	
	Windows type	-							
	U-value of the windows	U_w	W/(m ² ·K)	2.81	1.38	1.82	2.62	3.41	
Shading system type	-								
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	-							
	Air exchange rate *	n	h ⁻¹	-	-	-	-	-	
THERMAL SYSTEMS	Heating system type	Autonomous: 100%							
	Heating generator	-							
	Daily operating time of the heating system *	t_H	h	14.00	0.00	14.00	14.00	14.00	
	Energy carrier	Natural Gas: 86%; Solid biomass: 8%; Electricity: 6%							
	Heating emission sub-system	-							
	Cooling system type	-							
	Daily operating time of the cooling system *	t_C	h	-	-	-	-	-	
	Cooling emission sub-system	-							
	DHW system type	Autonomous, detached from heating: 41%; Autonomous, coupled with heating: 34%; Centralized, coupled with heating: 16%; Centralized, detached from heating: 9%							
	DHW generator	-							
	* These values are derived from UNI EN ISO Standards								

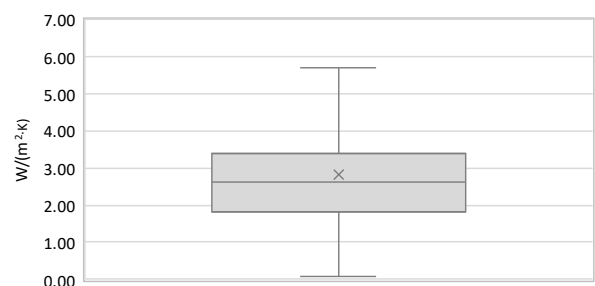
Region:	Piedmont		Archetype code: OFF_1931-1940_E_PIE
Building category:	Non-residential buildings - Offices		
Period of construction:	1931-1940		
Climatic zone:	E	Number of records: 32	

Numerical variables – GEOMETRY

NUMBER OF FLOORS

GROSS HEIGHT

AREA

VOLUME

COMPACTNESS RATIO

WINDOWS TO WALL RATIO


Numerical variables – ENVELOPE

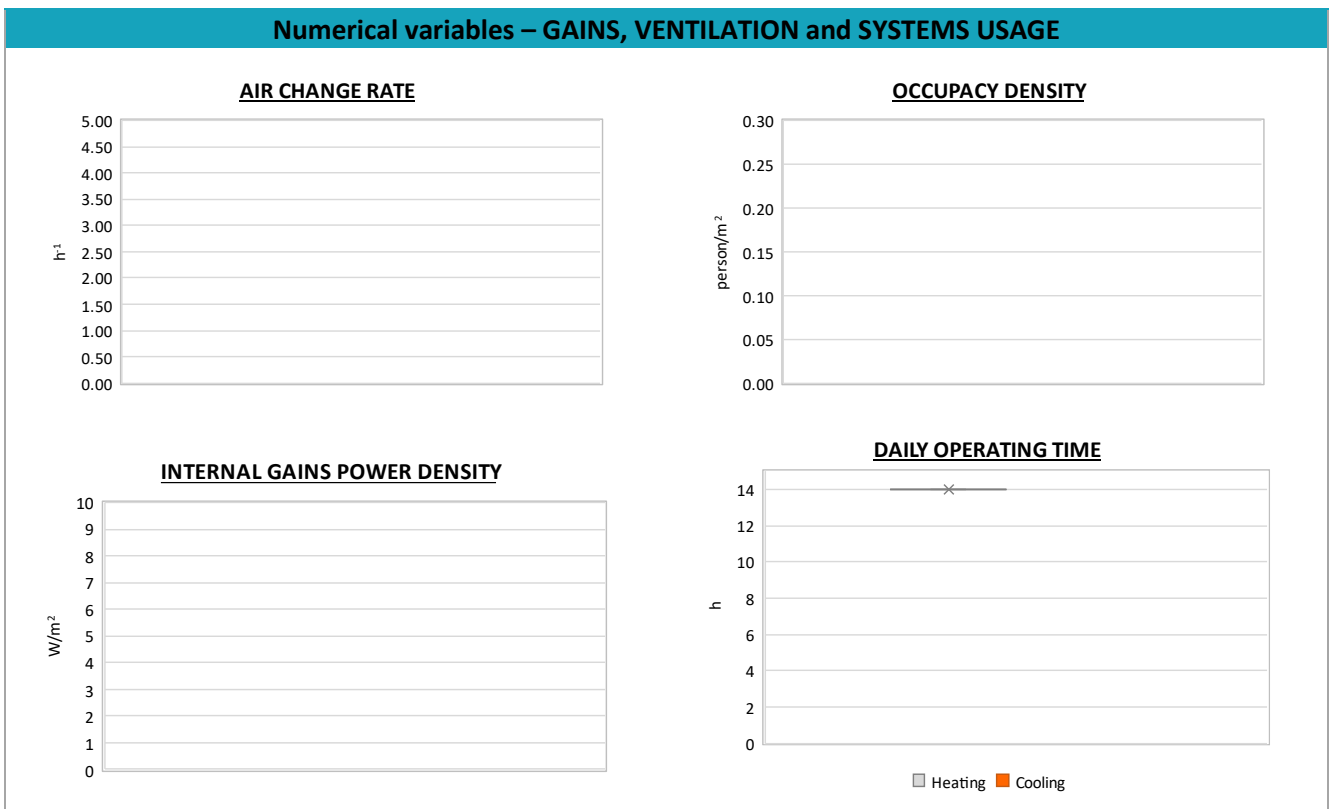
OPAQUE BUILDING COMPONENTS U-VALUE

WINDOWS U-VALUE


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:	Piedmont	Archetype code: OFF_1931-1940_E_PIE
Building category:	Non-residential buildings - Offices	
Period of construction:	1931-1940	
Climatic zone:	E	

ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
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	136.1	213.7	25.0	53.5	116.0
	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	165.1	265.1	16.0	48.6	76.2
	Temperature of DHW	ϑ_w	°C	40.0	0.0	40.0	40.0	40.0
	DHW system power	$P_{W,gen}$	kW	30.4	39.9	1.5	24.0	30.0



Region:	Piedmont	Archetype code: OFF_1931-1940_E_PIE
Building category:	Non-residential buildings - Offices	
Period of construction:	1931-1940	
Climatic zone:	E	

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