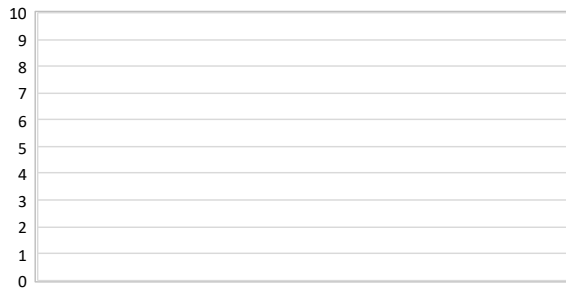


Region:	Aosta Valley (Aosta, Quart, Saint-Christophe, and Sarre)						Archetype code: OFF_1982-2005_E_VAL	
Building category:	Non-residential buildings - Offices							
Period of construction:	1982-2005							
Climatic zone:	E	Number of records:				7		
Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: solid brick masonry with thermal insulation (cod. MCV04) or hollow brick masonry with thermal insulation (cod. MCV02). Roof slabs: insulated reinforced concrete floor slab for walkable flat roof (cod. COP03), for pitched roof (cod. CIN03) or insulated wooden floor slab for pitched roof (cod. CIN02).							Data sources: EPC databases (100%)	
	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 <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>	321.9	403.2	139.3	139.3	235.5
	Heated gross volume	$V_{H,g}$	m <sup>3</sup>	1604.0	1802.8	780.5	780.5	1315.8
	Heated net volume	$V_{H,n}$	m <sup>3</sup>	1147.3	1363.1	452.2	452.2	1025.1
	Compactness ratio	$A_{\text{env}}/V_{H,g}$	m <sup>-1</sup>	0.58	0.15	0.52	0.52	0.61
	WWR – North orientation	$WWR_N$	-	0.12	0.10	0.07	0.07	0.13
	WWR – South orientation	$WWR_S$	-	0.12	0.10	0.07	0.07	0.13
	WWR – East orientation	$WWR_E$	-	0.12	0.10	0.07	0.07	0.13
	WWR – West orientation	$WWR_W$	-	0.12	0.10	0.07	0.07	0.13
	Window to useful floor area ratio	$A_{wi}/A_{\text{use}}$	-	0.20	0.09	0.14	0.14	0.21
ENVELOPE	Roof type	-						
	U-value of the roof **	$U_{fi,up}$	W/(m <sup>2</sup> ·K)	0.87	0.58	0.51	0.51	1.17
	External walls type	Solid Brick masonry: 57%; Hollow brick masonry: 43%						
	U-value of the wall	$U_{wl}$	W/(m <sup>2</sup> ·K)	0.75	0.15	0.81	0.81	0.81
	Slab on ground floor type	-						
	U-value of the floor **	$U_{fi,lw}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-
	Windows type	Double glazing, wooden frame: 100%						
	U-value of the windows	$U_W$	W/(m <sup>2</sup> ·K)	2.62	0.41	2.49	2.49	2.67
GAINS and VENTILATION	Shading system type	-						
	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	-						
THERMAL SYSTEMS	Air exchange rate *	$n$	h <sup>-1</sup>	-	-	-	-	-
	Heating system type	Autonomous: 100%						
	Heating generator	Boiler (unknown type): 86%; Condensing Boiler: 14%						
	Daily operating time of the heating system *	$t_H$	h	14.0	0.0	14.0	14.0	14.0
	Energy carrier	Natural Gas: 100%						
	Heating emission sub-system	-						
	Cooling system type	Absent: 86%; Air-cooled chiller: 14%						
	Daily operating time of the cooling system *	$t_C$	h	-	-	-	-	-
	Cooling emission sub-system	-						
	DHW system type	Centralized, coupled with heating: 57%; Autonomous, detached from heating: 29%; Centralized, detached from heating: 14%						
	DHW generator	Unknown: 86%; Electric boiler: 14%						
* These values are derived from UNI EN ISO Standards; ** U-values of the upper slab face the external environment, and the lower slab is in contact with the ground								

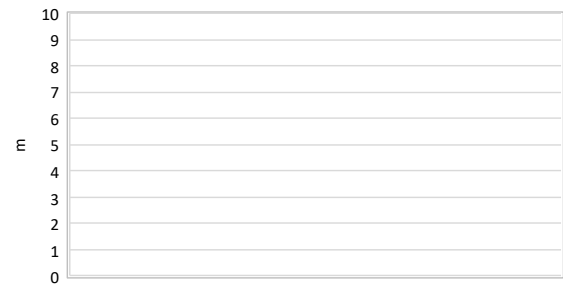
Region:	Aosta Valley (Aosta, Quart, Saint-Christophe, and Sarre)			Archetype code: OFF_1982-2005_E_VAL
Building category:	Non-residential buildings - Offices			
Period of construction:	1982-2005			
Climatic zone:	E	Number of records:	7	

### Numerical variables – GEOMETRY

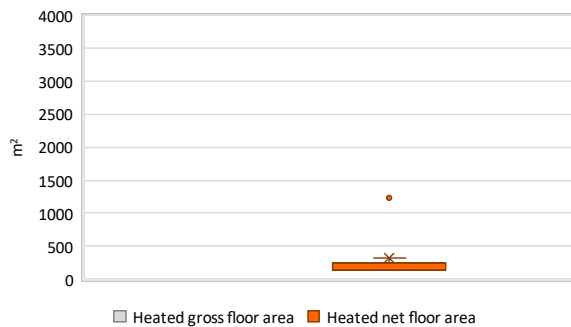
**NUMBER OF FLOORS**



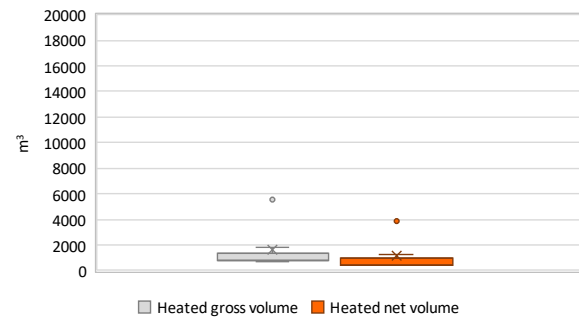
**GROSS HEIGHT**



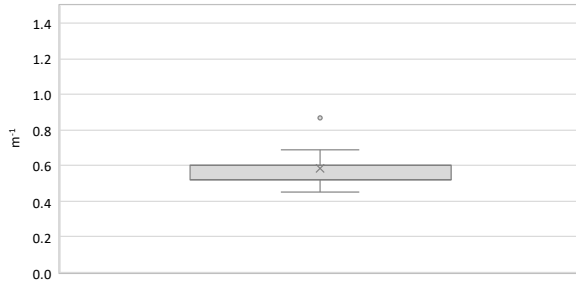
**AREA**



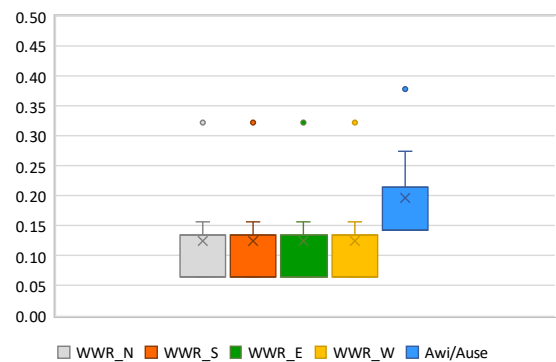
**VOLUME**



**COMPACTNESS RATIO**

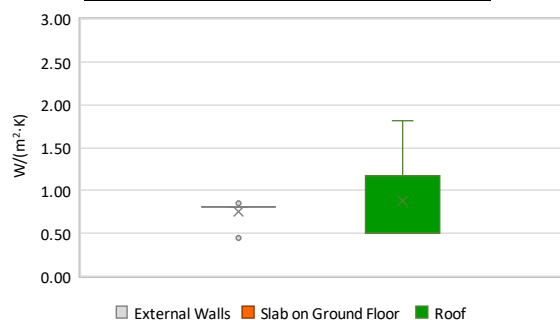


**WINDOWS TO WALL RATIO**

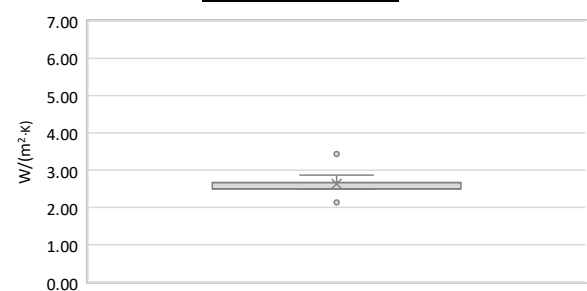


### Numerical variables – ENVELOPE

**OPAQUE BUILDING COMPONENTS U-VALUE**



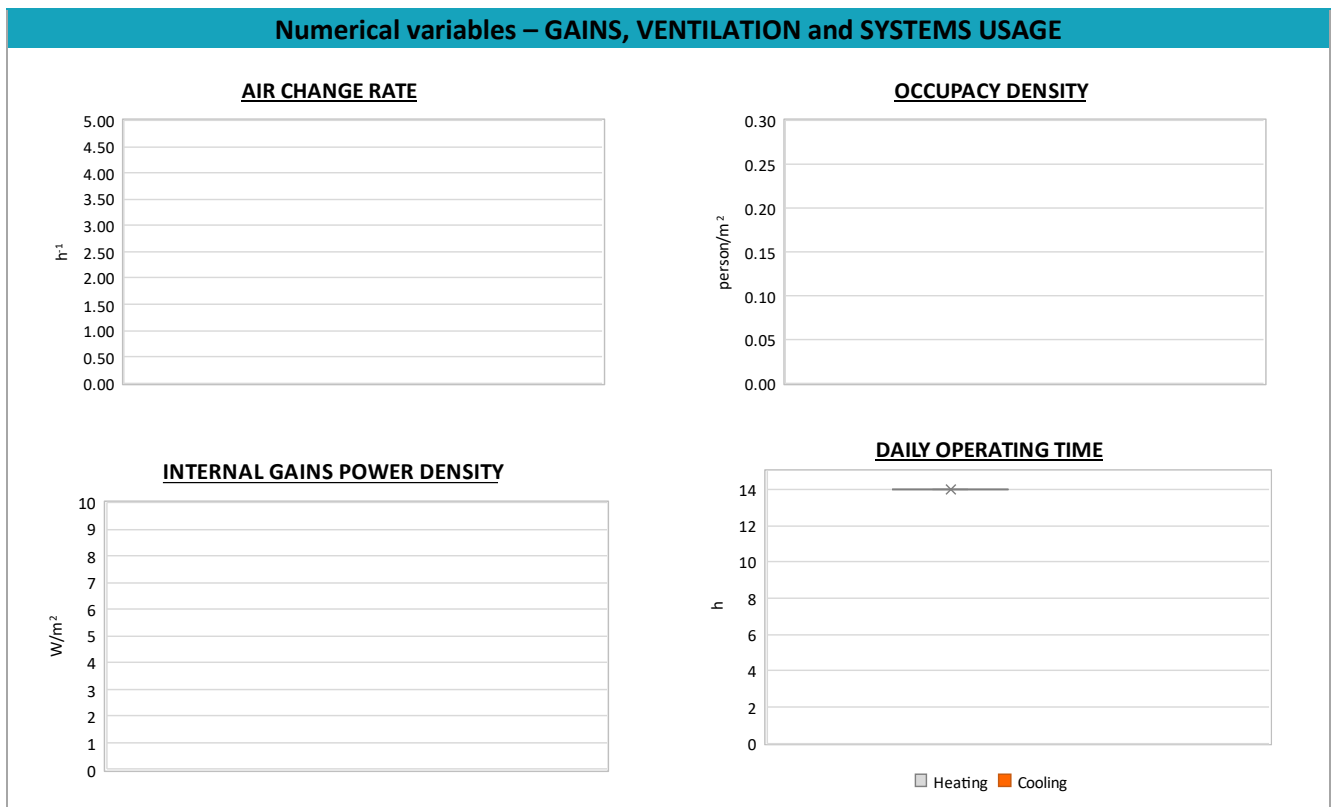
**WINDOWS U-VALUE**



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:	Aosta Valley (Aosta, Quart, Saint-Christophe, and Sarre)			Archetype code: OFF_1982-2005_E_VAL
Building category:	Non-residential buildings - Offices			
Period of construction:	1982-2005			
Climatic zone:	E	Number of records:	7	

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	32.0	0.0	32.0	32.0	32.0
	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	-	-	-	-	-
	Temperature of DHW	$\vartheta_W$	°C	40.0	0.0	40.0	40.0	40.0
	DHW system power	$P_{W,gen}$	kW	1236.2	2047.7	54.3	105.0	1852.5
* This value refers to the building scale								



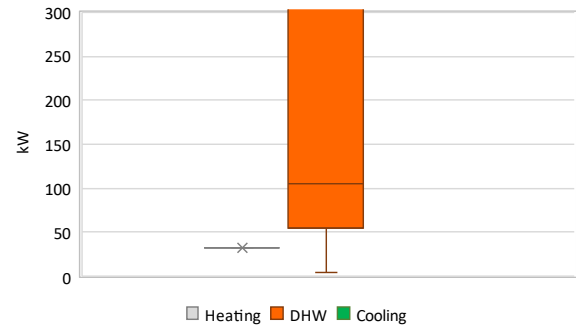
<b>Region:</b>	Aosta Valley (Aosta, Quart, Saint-Christophe, and Sarre)	<b>Archetype code:</b> OFF_1982-2005_E_VAL
<b>Building category:</b>	Non-residential buildings - Offices	
<b>Period of construction:</b>	1982-2005	
<b>Climatic zone:</b>	E	
<b>Number of records:</b>		7

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

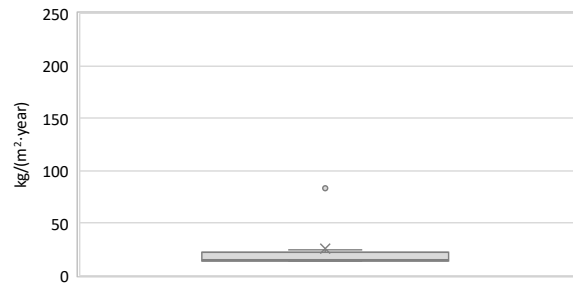
**DHW SUPPLY TEMPERATURE**



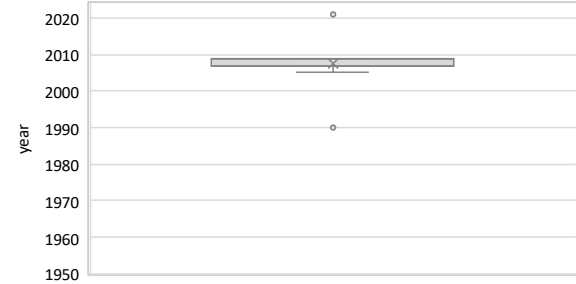
**SYSTEM POWER**



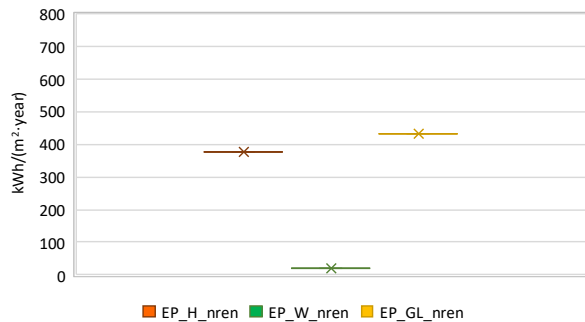
**CO<sub>2</sub> EMISSION**



**HEATING SYSTEM INSTALLATION YEAR**



**NON-RENEWABLE PRIMARY ENERGY USE**



**RENEWABLE PRIMARY ENERGY USE**

