

Region:		Aosta Valley						Archetype code:		
Building category:		Non-residential buildings - Offices						OFF_1946-1	981_E-F_VAL	
Period o	of construction:	1946-1981								
Climatic zone: E-F		E-F			Number	of records:	28			
Descript	<b>tion</b> (the codes asso	ciated with wall	s and slabs re	fer to the struct	ures descrit	oed in UNI/TR	11552:2014):	Data s	ources:	
	<u>l walls</u> : hollow brid <u>bs</u> : reinforced cor N04).	•				PO1) or for p	itched roof	EPC datab	ases (100%)	
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
RY	Number of floor	·s	nf	-	-	-	- qual tile	-	quartite)	
	Gross height		Hg	m	_		_	-	-	
	Footprint area		A <sub>footprint</sub>	m <sup>2</sup>	-	-	_	_	-	
	Heated gross floor area		A <sub>H;g</sub>	 	-	-	_	_	-	
	Heated net floor area		A <sub>H;n</sub>	m <sup>2</sup>	844.8	1149.2	118.3	476.0	918.0	
ME	Heated net noor area		V <sub>H;g</sub>	m <sup>3</sup>	3252.8	4322.1	499.0	1835.3	3643.2	
EO	Heated gross volume Heated net volume		V <sub>H;n</sub>	m <sup>3</sup>	2147.1	3096.2	321.5	1113.5	1838.6	
BUILDING GEOMETRY	Compactness ratio		A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.63	0.28	0.44	0.54	0.67	
	WWR – North orientation		WWR <sub>N</sub>	-	0.05	0.07	0.10	0.14	0.21	
	WWR – South orientation		WWRs	-	0.16	0.07	0.10	0.14	0.21	
	WWR – East orientation		WWRE	_	0.16	0.07	0.10	0.14	0.21	
	WWR – West orientation		WWRw	-	0.16	0.07	0.10	0.14	0.21	
	Window to useful floor area		A <sub>wi</sub> /A <sub>use</sub>	-	0.19	0.08	0.14	0.17	0.22	
	Roof type					-				
	U-value of the r	oof **	U <sub>fl;up</sub>	W/(m²·K)	0.86	0.60	0.49	0.67	0.73	
ш	External walls ty	vpe	Hollow brick masonry: 61%; Masonry with local stones: 18%; Solid Brick masonry: 14%; Concrete wa 4%; Unknown: 3%							
Q	U-value of the w	U-value of the wall		W/(m²·K)	1.11	0.59	0.78	1.10	1.32	
ENVELOPE	Slab on ground	floor type		1		-				
Ĕ	U-value of the fl	U-value of the floor **		W/(m²·K)	1.34	0.63	0.91	1.40	1.64	
	Windows type			Double gla	zing, PVC fr	ame: 53%; Do	uble glazing, wo	oden frame: 47%		
	U-value of the w	vindows	Uw	W/(m²⋅K)	2.42	0.89	1.79	2.16	2.86	
	Shading system	type				-				
_ Z	Occupancy dens		Oc	person/m <sup>2</sup>	UNI EN 16798-1 - Table A.19					
GAINS and VENTILATION	Lighting power of	density *	WL	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3					
GAINS and ENTILATIO	Equipment pow	er density *	W <sub>A</sub> W/m <sup>2</sup> UNI EN 16798-1 - A.8.3							
	Type of ventilati	on				-				
>	Air exchange rat	te *	n	h-1	-	-	-	-	-	
	Heating system	type	Autonomous: 100%							
THERMAL SYSTEMS	Heating generat		Boiler (unknown type): 67%; Condensing Boiler: 11%; Unknown: 8%; Traditional Boiler: 11%; Unknown: 8%; Traditional Boiler: 10%						oiler: 7%; Heat	
	Daily operating heating system		t <sub>H</sub>	h			-			
	Energy carrier		Gas Oil: 50%; Natural Gas: 38%; LPG: 8%; Solid biomass: 4%							
	Heating emission sub-system									
	Cooling system type				Abser	nt: 82%; Air-co	oled chiller: 18%	ó	1	
	Daily operating cooling system '	k	t <sub>C</sub>	h	-	-	-	-	-	
	Cooling emission	n sub-system	-							
	DHW system typ	be	Centralized, coupled with heating: 46%; Autonomous, detached fu coupled with heating: 22%						Autonomous,	
	DHW generator * These values are de ground	erived from UNI EN	Unknown: 81%; Natural gas boiler: 15%; Electric boiler: 4%           from UNI EN ISO Standards; ** U-values of the upper slab face the external environment, and the lower slab is in contact with t							



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. Non-residential buildings – Offices – 1946-1981 – Zone E-F – Aosta Valley





Non-residential buildings – Offices – 1946-1981 – Zone E-F – Aosta Valley



Region:	Archetype code:			
Building category:	OFF_1946-1981_E-F_VAL			
Period of construction:	Period of construction: 1946-1981			
Climatic zone:	E-F	Number of records:	28	

			ADDITIONA	L DATA					
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ m H;gen}$ or $COP_{ m H;gen}$	-	This value has to be retrieved from suitable datasheets					
	Total heating power	P <sub>H;gen</sub>	kW	23.8	10.3	21.1	26.1	30.3	
	Cooling efficiency or EER	$\eta_{C;gen}$ or EER <sub>C;gen</sub>	-	This value has to be retrieved from suitable datasheets					
	Total cooling power	P <sub>C;gen</sub>	kW	-	-	-	-	-	
	Temperature of DHW	ϑw	°C	40.0	0.0	40.0	40.0	40.0	
	DHW system power	P <sub>W;gen</sub>	kW	126.1	187.7	11.0	32.6	147.0	

## Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE





