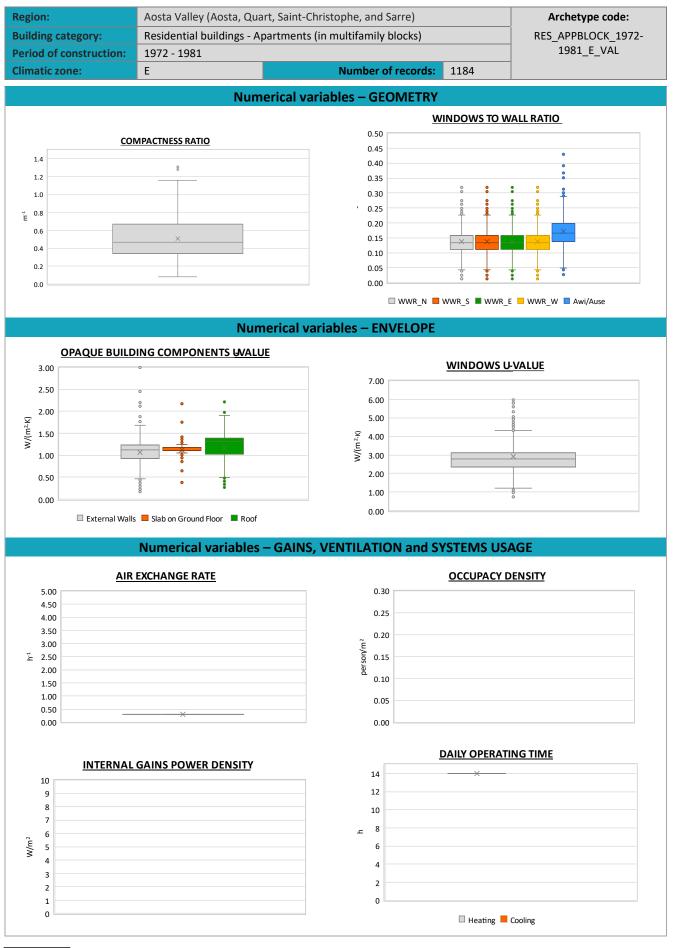


Region:		Aosta Valley (Aosta, Quart, Saint-Christophe, and Sarre)						Archetype code: RES_APPBLOCK_1972- 1981_E_VAL		
Building category:		Residential buildings - Apartments (in multifamily blocks)								
Period of construction:		1972 - 1981								
Climatio	c zone:	E	Number of records: 1184							
Description (the codes associated with walls		s and slabs refer to the structures described in UNI/TR 11552:2014):					Data sources:			
	<u>l walls</u> : hollow brid abs: reinforced cor	•		•	MCV02).			EPC databa	ases (100%)	
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
	Number of floor	-s	nf	-	-	-	-	-	-	
	Gross height		Hg	m	-	-	-	-	-	
	Footprint area		A _{footprint}	m²	-	-	-	-	-	
	Heated gross floor area		A _{H;g}	m²	-	-	-	-	-	
Building geometry	Heated net floor area		A _{H;n}	m²	-	-	-	-	-	
M	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-	
)EO	Heated net volume		V _{H;n}	m ³	-	-	-	-	-	
5	Compactness ratio		A _{env} /V _{H;g}	m ⁻¹	0.51	0.20	0.34	0.47	0.67	
ND.	WWR – North o	rientation	WWR _N	-	0.14	0.04	0.11	0.13	0.16	
1D	WWR – South o	rientation	WWRs	-	0.14	0.04	0.11	0.13	0.16	
	WWR – East ori	WWR – East orientation		-	0.14	0.04	0.11	0.13	0.16	
	WWR – West or	ientation	WWRw	-	0.14	0.04	0.11	0.13	0.16	
	Window to useful floor area		A _{wi} /A _{use}	-	0.17	0.05	0.14	0.17	0.20	
	Roof type			<u>.</u>		-	<u>.</u>	-	·	
	U-value of the r	oof **	U _{fl;up}	W/(m²·K)	1.16	0.39	1.03	1.32	1.39	
H	External walls ty								nown: 1%	
	U-value of the w	vall	U _{wl}	W/(m²⋅K)	1.06	0.30	0.93	1.13	1.24	
EC	Slab on ground	floor type				-				
ENVELOPE	U-value of the f	oor **	U _{fl;lw}	W/(m²⋅K)	1.12	0.21	1.11	1.11	1.18	
ш	Windows type		Double glazing, wooden frame: 40%; Double glazing, PVC frame: 3 21%; Triple glazing, wooden frame: 1%; Triple glazi					ng, PVC frame: 1%		
	U-value of the w	vindows	Uw	W/(m²·K)	2.93	1.12	2.35	2.80	3.14	
	Shading system	Shading system type		-						
ΤZ		Occupancy density *		O _C person/m ² UNI EN 16798-1 - Table A.19						
GAINS and VENTILATIO		Lighting power density *		WL W/m² UNI EN 16798-1 - A.8.3						
GAINS and ENTILATIO	Equipment pow		W _A	W/m ²			UNI EN 16798	-1 - A.8.3		
g . L	Type of ventilat				1	Natural:	100%		1	
>	Air exchange rat	te *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30	
	Heating system	type	Centralized: 83%; Autonomous: 17%							
	Heating generat		Boiler (unknown type): 58%; Traditional Boiler: 16%; Condensing Boiler: 14%; Heat exchanger of district heating/cooling: 10%; Fireplace: 1%; Air-source heat pump: 1%							
THERMAL SYSTEMS	Daily operating heating system		t _H	h	14.0	0.0	14.0	14.0	14.0	
	Energy carrier			Natural Gas: 639	%; Gas Oil:	29%; District h	eating: 4%; LPG	: 2%; Solid bioma	ss: 2%	
	Heating emissio	n sub-system	-							
	Cooling system		Absent: 98%; Air-cooled chiller: 2%							
	Daily operating		t _C	h	-	-	-	-	-	
	cooling system		-0							
	Cooling emissio		- Centralized, coupled with heating: 45%; Autonomous, detached from heating: 40%; Autonomous,							
	DHW generator		coupled with heating: 14%; Centralized, detached from heating: 1% Unknown: 67%; Natural gas boiler: 25%; Electric boiler: 6%; Electric Heat Pump: 2%							
		ilues are derived from UNI EN ISO Standards; ** U-values of the upper and lower slabs face unconditioned spaces (i.e., attic, basement, etc.)								



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. Residential buildings – Apartments – 1972-1981 – Zone E – Aosta Valley





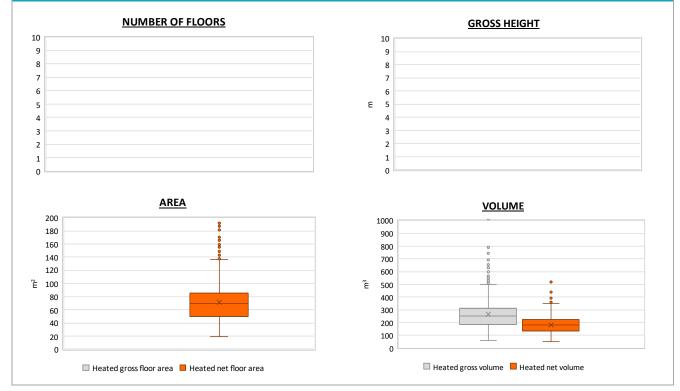
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Region:	Aosta Valley (Aosta, Qua	Archetype code:		
Building category:	Residential buildings - A	RES_APPBLOCK_1972-		
Period of construction:	1972 - 1981	1981_E_VAL		
Climatic zone:	E	Number of records:	1184	

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	2.7	0.1	2.7	2.7	2.7
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m ²	71.0	31.1	50.0	69.0	84.9
	Heated gross volume	V _{H;g}	m ³	266.0	145.9	186.6	252.4	314.2
9.0	Heated net volume	V _{H;n}	m ³	181.8	64.4	134.2	182.0	224.0
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or COP _{H;gen}	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	P _{H;gen}	kW	22.4	7.8	18.0	24.0	28.0
	Cooling efficiency or EER	η _{C;gen} or EER _{C;gen}	-	This value has to be retrieved from suitable datasheets				
	Total cooling power *	P _{C;gen}	kW	7.0	7.4	2.9	3.6	8.1
	Temperature of DHW	ϑ _w	°C	40.0	0.0	40.0	40.0	40.0
۲, E	DHW system power *	P _{W;gen}	kW	9.1	10.8	1.2	2.0	20.0
	* These values refer to the apartment s	cale						

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



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