

 Region:
 Aosta Valley (Aosta, Quart, Saint-Christophe, and Sarre)
 Archetype code:

 Building category:
 Residential buildings - Apartments (in multifamily blocks)
 RES_APPBLOCK_1946-1946-1961

 Period of construction:
 1946 - 1961
 Number of records:
 1613

Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014): External walls: hollow brick masonry with air gap (cod. MCV01) or solid brick masonry (cod. MLP01). Roof slabs: concrete floor slab (cod. SOL06).

Data sources:

EPC databases (100%)

	D.1-	C			Chandand	04 (5:)	D.O. a.l.' a sa	O2 (thind		
	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	Hg	m	-	-	-	-	-		
	Footprint area	A _{footprint}	m ²	-	-	-	-	-		
	Heated gross floor area	A _{H;g}	m ²	-	-	-	-	-		
	Heated net floor area	A _{H;n}	m ²	-	-	-	-	-		
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m³	-	-	-	-	-		
و	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.54	0.23	0.35	0.52	0.70		
ā	WWR – North orientation	WWR _N	-	0.14	0.05	0.10	0.13	0.16		
5	WWR – South orientation	WWR _S	-	0.14	0.05	0.10	0.13	0.16		
	WWR – East orientation	WWR _E	-	0.14	0.05	0.10	0.13	0.16		
	WWR – West orientation	WWR _W	-	0.14	0.05	0.10	0.13	0.16		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.17	0.05	0.14	0.17	0.21		
	Roof type -									
	<i>U</i> -value of the roof **	U _{fl;up}	W/(m²·K)	1.25	0.39	1.09	1.34	1.45		
)PE	External walls type	Hollow brick masonry: 63%; Solid Brick masonry: 31%; Masonry with local stones: 4%; Concrete wall: 2%								
	<i>U</i> -value of the wall	U _{wl}	W/(m²⋅K)	1.10	0.40	0.82	1.13	1.27		
/EL(Slab on ground floor type				-					
ENVELOPE	<i>U</i> -value of the floor **	U _{fl;lw}	W/(m²⋅K)	1.10	0.25	1.10	1.15	1.20		
	Windows type	Double glazing, wooden frame: 46%; Double glazing, PVC frame: 32%; Single glazing, wooden frame: 21%; Triple glazing, PVC frame: 1%								
	<i>U</i> -value of the windows	U _W	W/(m²⋅K)	2.78	1.03	2.09	2.69	3.08		
	Shading system type	-								
_ Z	Occupancy density *	<i>O</i> _C	O _C person/m² UNI EN 16798-1 - Table A.19							
anc T10	Lighting power density *	W∟	W/m²	UNI EN 16798-1 - A.8.3						
NS F]:	Equipment power density *	W _A	W _A W/m ² UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation		Natural: 100%							
>	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30		
	Heating system type	Centralized: 63%; Autonomous: 37%								
	Heating generator	Boiler (unknown type): 48%; Traditional Boiler: 19%; Heat exchanger of district heating/cooling: 16%; Condensing Boiler: 14%; Fireplace: 2%; Unknown: 1%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	14.0	0.0	14.0	14.0	14.0		
	Energy carrier	Natural Gas: 61%; Gas Oil: 20%; District heating: 13%; LPG: 3%; Solid biomass: 3%								
	Heating emission sub-system	-								
	Cooling system type	Absent: 99%; Air-cooled chiller: 1%								
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type	Autonomous, detached from heating: 59%; Autonomous, coupled with heating: 28%; Centralized, coupled with heating: 11%; Centralized, detached from heating: 2%								
	DHW generator	Unknown: 59%; Electric boiler: 21%; Natural gas boiler: 20%								
	* These values are derived from UNI EN	se values are derived from UNI EN ISO Standards; ** <i>U</i> -values of the upper and lower slabs face unconditioned spaces (i.e., attic, basement, etc.)								



 Region:
 Aosta Valley (Aosta, Quart, Saint-Christophe, and Sarre)
 Archetype code:

 Building category:
 Residential buildings - Apartments (in multifamily blocks)
 RES_APPBLOCK_1946-1961

 Period of construction:
 1946 - 1961
 1961_E_VAL

 Climatic zone:
 E
 Number of records:
 1613





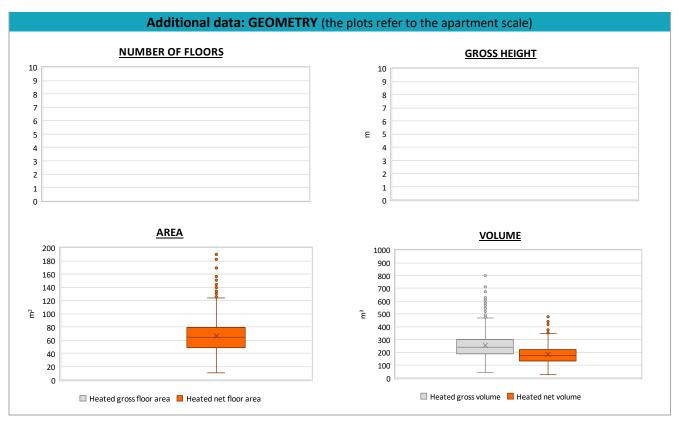
 Region:
 Aosta Valley (Aosta, Quart, Saint-Christophe, and Sarre)
 Archetype code:

 Building category:
 Residential buildings - Apartments (in multifamily blocks)
 RES_APPBLOCK_1946-1961

 Period of construction:
 1946 - 1961
 1961_E_VAL

 Climatic zone:
 E
 Number of records:
 1613

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	2.8	0.2	2.7	2.7	2.8
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m²	66.2	25.0	48.4	64.3	79.3
	Heated gross volume	V _{H;g}	m³	252.6	94.7	187.8	242.5	301.3
	Heated net volume	V _{H;n}	m³	182.9	67.9	133.3	175.9	220.1
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or <i>COP</i> _{H;gen}	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	P _{H;gen}	kW	23.3	6.8	22.0	24.0	26.3
	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	5.7	3.6	3.4	4.3	6.0
	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0
Ē	DHW system power *	P _{W;gen}	kW	10.7	11.6	1.2	1.5	24.0
	* These values refer to the apartment scale							





Region:	Region: Aosta Valley (Aosta, Quart, Saint-Christophe, and Sarre)				
Building category:	Residential buildings - Ap	RES_APPBLOCK_1946-			
Period of construction:	construction: 1946 - 1961				
Climatic zone:	E	Number of records:	1613		

