

Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):

External walls: hollow brick masonry with thermal insulation (cod. MCV02).

Roof slabs: reinforced concrete floor slab (cod. SOL04).

Data sources: EPC databases (100%)

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	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	-	-	-	-	-			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.63	0.24	0.44	0.66	0.79			
	WWR – North orientation	WWR _N	-	0.13	0.06	0.10	0.12	0.15			
Ē	WWR – South orientation	WWR _S	-	0.13	0.06	0.10	0.12	0.15			
	WWR – East orientation	WWR _E	-	0.13	0.06	0.10	0.12	0.15			
	WWR – West orientation	WWR _W	-	0.13	0.06	0.10	0.12	0.15			
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.17	0.06	0.13	0.16	0.20			
	Roof type				-						
	<i>U</i> -value of the roof **	$U_{fl;up}$	W/(m²·K)	1.23	0.49	0.99	1.32	1.46			
	External walls type	Hollow brick masonry: 64%; Solid Brick masonry: 25%; Unknown: 4%; Concrete wall: 4%; Masonry with local stones: 2%; Prefabricated panels: 1%									
OPE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²·K)	0.98	0.39	0.76	1.01	1.21			
ENVELOPE	Slab on ground floor type				-						
	<i>U</i> -value of the floor **	$U_{fl;lw}$	W/(m²·K)	1.08	0.23	1.02	1.11	1.18			
	Windows type	Double glazing, wooden frame: 73%; Single glazing, wooden frame: 17%; Double glazing, PVC frame: 8%; Triple glazing, wooden frame: 2%									
	<i>U</i> -value of the windows	U_{W}	W/(m²⋅K)	2.80	0.97	2.27	2.75	3.05			
	Shading system type	<u> </u>									
₽ Z	Occupancy density *	O _C	person/m ²	UNI EN 16798-1 - Table A.19							
GAINS and ENTILATION	Lighting power density *	W _L	W/m ²	UNI EN 16798-1 - A.8.3							
SN 7	Equipment power density *	W _A	W/m ²	UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation		ı	1	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%									
THERMAL SYSTEMS	Heating generator	Boiler (unknown type): 44%; Traditional Boiler: 25%; Heat exchanger of district heating/cooling: 14%; Condensing Boiler: 9%; Fireplace: 4%; Unknown: 3%; Air-source heat pump: 1%									
	Daily operating time of the heating system *	t _H	h		-						
	Energy carrier	Gas Oil: 53%; Natural Gas: 19%; Solid biomass: 14%; LPG: 9%; District heating: 5%									
	Heating emission sub-system	-									
	Cooling system type				Absent:	100%					
	Daily operating time of the cooling system *	t c	h	-	-	-	-	-			
	Cooling emission sub-system	-									
	DHW system type	Centralized, coupled with heating: 38%; Autonomous, detached from heating: 34%; Autonomous, coupled with heating: 25%; Centralized, detached from heating: 3%									
	DHW generator	Unknown: 62%; Natural gas boiler: 25%; Electric boiler: 11%; Electric Heat Pump: 2%									
	* These 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.)										



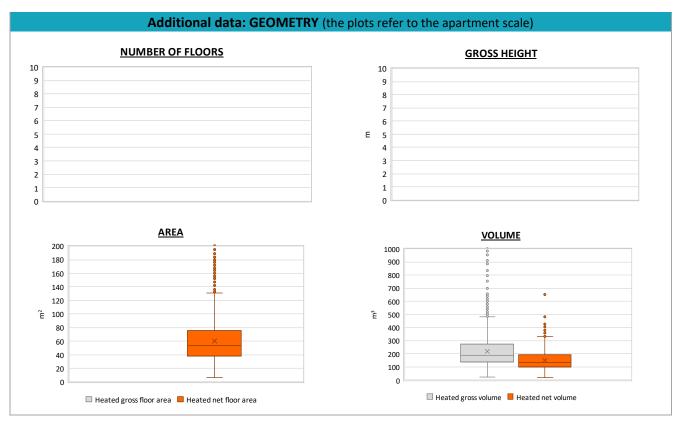


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The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.



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	2.6	0.3	2.4	2.5	2.7		
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-		
	Heated net floor area	A _{H;n}	m²	59.8	30.8	38.1	53.1	75.3		
	Heated gross volume	V _{H;g}	m³	216.9	119.1	134.4	188.4	273.0		
	Heated net volume	V _{H;n}	m³	150.7	71.7	98.7	134.0	191.9		
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	22.0	9.6	13.6	24.2	29.7		
	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	4.8	1.9	3.5	5.2	5.4		
	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0		
F	DHW system power *	P _{W;gen}	kW	11.9	12.6	1.2	2.0	24.4		
	* These values refer to the apartment s	cale								







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