

**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%)

	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third			
	Data	Syllibol	measure	value	deviation	quartile)	value	quartile)			
BUILDING GEOMETRY	Number of floors	n <sub>f</sub>	-	-	-	-	-	-			
	Gross height	Hg	m	-	-	-	-	_			
	Footprint area	A <sub>footprint</sub>	m <sup>2</sup>	-	-	-	-	_			
	Heated gross floor area	A <sub>H;g</sub>	m <sup>2</sup>	-	-	-	-	_			
	Heated net floor area	A <sub>H;n</sub>	m <sup>2</sup>	-	-	-	-	-			
	Heated gross volume	V <sub>H;g</sub>	m³	-	-	-	-	-			
	Heated net volume	V <sub>H;n</sub>	m³	-	-	-	-	-			
	Compactness ratio	A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.58	0.25	0.37	0.59	0.73			
	WWR – North orientation	WWR <sub>N</sub>	_	-	-	-	-	-			
	WWR – South orientation	WWR <sub>S</sub>	_	-	-	-	-	-			
	WWR – East orientation	WWR <sub>E</sub>	_	-	-	-	-	-			
	WWR – West orientation	WWR <sub>W</sub>	_	-	-	-	-	-			
	Window to useful floor area ratio	A <sub>wi</sub> /A <sub>use</sub>	-	0.16	0.09	0.13	0.16	0.19			
ENVELOPE	Roof type	-									
	<i>U</i> -value of the roof	U <sub>fl;up</sub>	W/(m <sup>2</sup> ·K)	-	-	-	-	-			
	External walls type		Hollow brick masonry: 74%; Solid Brick masonry: 21%; Prefabricated panels: 3%; Unknown: 2%								
	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m <sup>2</sup> ·K)	-	-	-	-	-			
	Slab on ground floor type	-									
	<i>U</i> -value of the floor	U <sub>fl;lw</sub>	W/(m²·K)	-	-	-	-	-			
	Windows type				-						
	<i>U</i> -value of the windows	U <sub>w</sub>	W/(m²·K)	2.97	1.03	2.31	2.88	3.30			
	Shading system type				-						
z	Occupancy density *	O <sub>C</sub>	person/m²	ı/m² UNI EN 16798-1 - Table A.19							
GAINS and VENTILATION	Lighting power density *	W <sub>L</sub>	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3							
NS (	Equipment power density *	W <sub>A</sub>	W/m <sup>2</sup>	UNI EN 16798-1 - A.8.3							
GAI	Type of ventilation			Natural: 100%							
~ >	Air exchange rate *	n	h <sup>-1</sup>	0.30 0.00 0.30 0.30 0.3							
	Heating system type	Autonomous: 76%; Centralized: 24%									
THERMAL SYSTEMS	Heating generator				-						
	Daily operating time of the heating system *	t <sub>H</sub>	h	14.00	0.00	14.00	14.00	14.00			
	Energy carrier	Natural Gas: 79%; Electricity: 7%; District heating: 5%; Solid biomass: 4%; LPG: 3%; Gas Oil: 2%									
	Heating emission sub-system	-									
	Cooling system type				-						
	Daily operating time of the cooling system *	t <sub>C</sub>	h	-	-	-	-	-			
	Cooling emission sub-system				-						
	DHW system type	Autonomous, coupled with heating: 69%; Autonomous, detached from heating: 19%; Centralized, coupled with heating: 10%; Centralized, detached from heating: 2%									
	DHW generator	-									
	* These values are derived from UNI EN ISO Standards										





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 <sub>n</sub>	m	-	-	-	-	-		
	Heated gross floor area	A <sub>H;g</sub>	m²	-	-	-	-	-		
	Heated net floor area	A <sub>H;n</sub>	m²	90.6	45.8	66.9	81.7	101.5		
	Heated gross volume	V <sub>H;g</sub>	m³	339.0	188.6	244.7	300.5	381.0		
	Heated net volume	V <sub>H;n</sub>	m³	-	-	-	-	-		
THERMAL SYSTEMS	Heating efficiency or COP	η <sub>H;gen</sub> or <i>COP</i> <sub>H;gen</sub>	-	This value has to be retrieved from suitable datasheets						
	Total heating power *	P <sub>H;gen</sub>	kW	24.8	4.4	23. 8	24.0	26.6		
	Cooling efficiency or EER	η <sub>C;gen</sub> or EER <sub>C;gen</sub>	-	This value has to be retrieved from suitable datasheets						
	Total cooling power *	P <sub>C;gen</sub>	kW	4.7	3.6	3.0	3.5	5.2		
	Temperature of DHW	$\vartheta_{\sf W}$	°C	40.0	0.0	40.0	40.0	40.0		
É	DHW system power *	P <sub>W;gen</sub>	kW	22.5	7.6	23.0	24.0	25.8		
	* These values refer to the apartment s	cale								





