

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

External walls: double layer of hollow bricks (12 cm + 12 cm) with uninsulated air gap (cod. MCV01). Roof slabs: no data available

Data sources: Survey data (52%) Measured data (16%) Expert assumptions (12%) Others (20%) #

							Others (20%) #			
	Data	Symbol	Unit of	Mean value	Standard deviation	Q1 (first	Median value	Q3 (third		
BUILDING GEOMETRY	Number of floors	ne	measure -	2.14	1.59	quartile) 1.00	2.00	quartile) 3.00		
	Gross height	n _f	m	2.14	1.33	1.00	2.00	3.00		
	Footprint area	H _g	m ²	-	-	-	-	-		
		A _{footprint}	m ²	-		-	-	-		
	Heated gross floor area Heated net floor area	A _{H;g}	m ²	-	-			-		
		A _{H;n}		-	-			-		
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m³	-	-	-	-	-		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.48	0.20	0.33	0.44	0.55		
	WWR – North orientation	WWR _N	-	0.18	0.10	0.10	0.17	0.23		
BO	WWR – South orientation	WWR _S	-	0.19	0.11	0.11	0.19	0.25		
	WWR – East orientation	WWR _E	-	0.23	0.20	0.09	0.16	0.30		
	WWR – West orientation	WWR _W	-	0.24	0.13	0.13	0.22	0.31		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.15	0.06	0.11	0.15	0.17		
ENVELOPE	Roof type									
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²⋅K)	1.01	0.51	0.47	1.08	1.40		
	External walls type	Hollow brick masonry: 91%, Solid brick masonry: 9%								
	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	0.84	0.37	0.55	0.77	1.10		
	Slab on ground floor type	-								
	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	0.98	0.66	0.35	0.77	1.43		
	Windows type	Double glazing, wooden frame: 33%, Single glazing, wooden frame: 23%, Double glazing, aluminum frame, no thermal break: 12%, Double glazing, PVC frame: 12%, Single glazing, aluminum frame: 11%, Double glazing, aluminum frame with thermal break: 9%								
	<i>U</i> -value of the windows	U _W	W/(m²·K)	3.80	1.40	2.70	3.63	4.90		
	Shading system type	Roller blinds: 58%, Shutter: 33%, Curtains: 2%, Unknown: 7%								
7	Occupancy density	O _C	person/m ²	0.034	0.014	0.025	0.032	0.042		
ē ģ	Lighting power density *	W _L	W/m ²			UNI EN 16798	-1 - A.8.3			
\S a LA1	Equipment power density *	W _A	W/m ²							
GAINS and VENTILATION	Type of ventilation	Natural: 100%								
A E	Air exchange rate *	n	h-1	0.30	0.00	0.30	0.30	0.30		
	Heating system type				Autonomou		5.55	0.00		
	Heating generator	Traditional Boiler: 81%, Fireplace: 10%, Condensing Boiler: 9%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t _H	h	8.00	0.00	8.00	8.00	8.00		
	Energy carrier	Natural Gas: 72%, LPG: 12%, Solid biomass: 9%, Electricity: 7%								
	Heating emission sub-system	Radiators: 100%								
	Cooling system type	Absent: 97%, Air-cooled chiller: 3%								
	Daily operating time of the			71030	110. 3770,7111 00	Joied chiller. 370	,			
	cooling system *	t _C	h	8.00	0.00	8.00	8.00	8.00		
	Cooling emission sub-system	Fan coil: 100%								
	DHW system type	-								
	DHW generator	-								
		# Standards (8%), Municipal database (8%), EPC database (4%).								
	* These values were not available in the considered sources, and are thus derived from UNI EN 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 _n	m	2.80	0.12	2.70	2.75	2.90				
	Heated gross floor area	$A_{H;g}$	m ²	155.75	57.92	120.01	149.45	173.62				
	Heated net floor area	A _{H;n}	m ²	130.98	48.98	101.52	123.39	145.76				
	Heated gross volume	$V_{H;g}$	m³	473.50	177.73	362.82	441.47	511.02				
	Heated net volume	$V_{H;n}$	m³	365.69	136.97	279.46	340.56	403.90				
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{\sf H;gen}$ or $ extit{COP}_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets								
	Total heating power *	$P_{H;gen}$	kW	26.56	4.51	24.00	25.00	27.65				
	Cooling efficiency or EER	η _{C;gen} or <i>EER</i> C;gen	-	This value has to be retrieved from suitable datasheets								
	Total cooling power	$P_{C;gen}$	kW	-	-	-	-	-				
	Temperature of DHW	$ heta_{\sf W}$	°C	40.00	0.00	40.00	40.00	40.00				
	DHW system power	$P_{ m W;gen}$	kW	-	-	-	-	-				
	* These values refer to the apartment s	cale										





