

 Region:
 Lazio
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES\_APPBLOCK\_1961-1975\_D\_LAZ

 Period of construction:
 1961-1975\_D\_LAZ

 Climatic zone:
 D
 Number of records:
 13

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

<u>External walls</u>: double layer of hollow bricks with uninsulated air gap (cod. MCV01). <u>Roof slabs</u>: reinforced brick-concrete slab plus uninsulated concrete screed (cod. SOL04)

Data sources: Energy audits (100%)

	Dete	Complete	linia of	24000	Chandand	01 /6:55	NA salisas	02 /hh:d		
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
BUILDING GEOMETRY	Number of floors	nf	-	5.15	1.52	5	5	5		
	Gross height	Hg	m	21.19	5.67	19.18	19.98	25.92		
	Footprint area	A <sub>footprint</sub>	m²	-	-	-	-	-		
	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>	3040.43	1765.92	1786.45	2929.59	4288.26		
	Heated gross volume	V <sub>H;g</sub>	m³	-	-	-	-	-		
	Heated net volume	V <sub>H;n</sub>	m <sup>3</sup>	7556.96	5467.28	3502.86	6103.31	9794.12		
	Compactness ratio	A <sub>env</sub> /V <sub>H;g</sub>	m <sup>-1</sup>	0.44	0.08	0.39	0.46	0.51		
	WWR – North orientation	WWR <sub>N</sub>	-	-	-	-	-	-		
튛	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>	-	0.14	0.02	0.13	0.14	0.15		
	Roof type	-								
	<i>U</i> -value of the roof	U <sub>fl;up</sub>	W/(m²⋅K)	1.52	0.11	1.41	1.56	1.61		
	External walls type	Hollow brick masonry: 100%								
PE	<i>U</i> -value of the wall	U <sub>wl</sub>	W/(m²⋅K)	1.10	0.11	1.01	1.15	1.17		
ELC	Slab on ground floor type	Brick-concrete slab: 100%								
ENVELOPE	<i>U</i> -value of the floor	U <sub>fl;lw</sub>	W/(m <sup>2</sup> ·K)	1.19	0.44	0.81	1.27	1.55		
	Windows type	-								
	<i>U</i> -value of the windows	U <sub>W</sub>	W/(m <sup>2</sup> ·K)	3.69	0.39	3.53	3.65	4.02		
	Shading system type				-					
z	Occupancy density *	O <sub>C</sub>	person/m <sup>2</sup>		UNI	EN 16798-1 –	Table A.19			
GAINS and VENTILATION	Lighting power density *	₩L	W/m²		U	NI EN 16798-1	1 – A.8.3			
NS (	Equipment power density *	W <sub>A</sub>	W/m²	UNI EN 16798-1 – A.8.3						
SAII	Type of ventilation			-						
~ <del>&gt;</del>	Air exchange rate *	n	h <sup>-1</sup>	0.30	0.00	0.30	0.30	0.30		
	Heating system type			Centralized: 100%						
	Heating generator	Traditional boiler: 92%; Condensing boiler: 8%								
THERMAL SYSTEMS	Daily operating time of the heating system *	t <sub>H</sub>	h	12.00	0.00	12.00	12.00	12.00		
	Energy carrier	Natural gas: 100%								
	Heating emission sub- system	Radiators: 100%								
	Cooling system type	Absent: 100%								
	Daily operating time of the cooling system *	t <sub>C</sub>	h	-	-	-	-	-		
	Cooling emission subsystem	-								
	DHW system type	Autonomous – coupled with heating: 100%								
	DHW generator	-								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									



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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.



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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>	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	-	-	-	-	-			
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	266.24	185.31	115.00	217.20	318.00			
	Cooling efficiency or EER	η <sub>C;gen</sub> or <i>EER</i> <sub>C;gen</sub>	-	This value has to be retrieved from suitable datasheets							
	Total cooling power	P <sub>C;gen</sub>	kW	-	-	-	-	-			
	Temperature of DHW	$\theta_{W}$	°C	48.00	0.00	48.00	48.00	48.00			
É	DHW system power	P <sub>W;gen</sub>	kW	40.72	70.10	41.19	67.55	98.87			
	* These values refer to the apartment scale										





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