

 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_1981-1990_E_TN

 Period of construction:
 1981-1990
 1990_E_TN

 Climatic zone:
 E
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 2341

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

External walls: no data available Roof slabs: no data available

Data sources: APE (100%)

				ı							
	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third			
BUILDING GEOMETRY	Number of floors	n _f	measure -	value -	deviation	quartile) -	value -	quartile)			
	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	1273	762	531	1055	1981			
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m ³	4396	2978	1669	3436	7062			
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.57	0.09	0.50	0.61	0.64			
N	WWR – North orientation	WWR _N	-	-	-	-	-	-			
3	WWR – South orientation	WWR _S	-	_	-	-	_	_			
8	WWR – East orientation	WWR _E	_	_	_	-		_			
	WWR – West orientation	WWR _W	_	_	_	_		_			
	Window to useful floor area ratio	A _{wi} /A _{use}	-	-	-	-	-	-			
	Roof type				-						
	<i>U</i> -value of the roof	U _{fl;up}	W/(m ² ·K)	-	-	-	-	-			
	External walls type				-						
PE	<i>U</i> -value of the wall	U _{wl}	W/(m ² ·K)	-	-	-	-	-			
ENVELOPE	Slab on ground floor type				-						
	<i>U</i> -value of the floor	U _{fl;lw}	W/(m²·K)	-	-	-	-	-			
	Windows type	-									
	<i>U</i> -value of the windows	U_{W}	W/(m ² ·K)	-	-	-	-	-			
	Shading system type			-							
_ z	Occupancy density *	<i>O</i> _C	person/m²		L	INI EN 16798-1 -	- Table A.19				
GAINS and VENTILATION	Lighting power density *	W_{L}	W/m ²	UNI EN 16798-1 - A.8.3							
SN F	Equipment power density *	W_{A}	W/m ²	UNI EN 16798-1 - A.8.3							
G AI	Type of ventilation			Natural: 100%							
_ >	Air exchange rate *	n	h ⁻¹	0.30	-	0.30	0.30	0.30			
	Heating system type				<u> </u>	ed: 32%, Unkno					
THERMAL SYSTEMS	Heating generator	Boiler (unknown type): 70%, Traditional boiler: 14%; DHC: 9%, Condensing boiler: 6%, Air source heat pump: 1%									
	Daily operating time of the heating system *	t _H	h	14	-	14	14	14			
	Energy carrier	Natural gas: 96%, District heating: 1%, Gas Oil: 1%, Electricity from PV, wind turbines, hydraulic turbines: 1%, Solid biomass: 1%									
	Heating emission sub-system	<u>-</u>									
	Cooling system type	Unknown: 98%, Air-cooled chiller: 2%									
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-			
	Cooling emission sub-system	-									
	DHW system type	Autonomous – coupled with heating: 42%, Centralized – coupled with heating: 30%, Unknown: 19%, District heating: 7%, Autonomous - detached from heating: 2%									
	DHW generator	Natural gas boiler: 77%, Unknown: 20%, Electric heat pump: 2%, Electric boiler: 1%									
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards										



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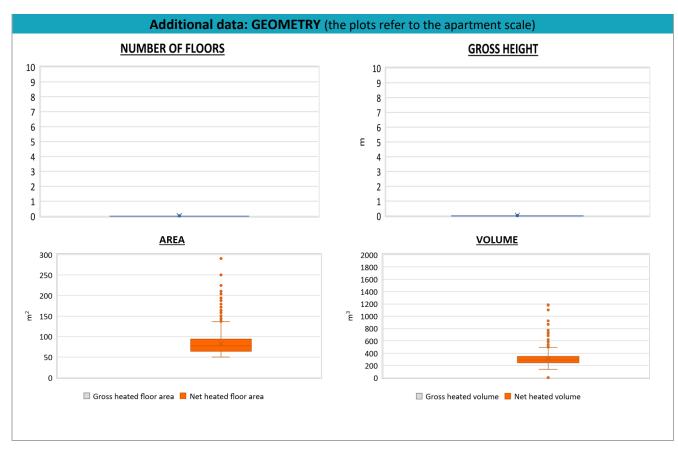
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ADDITIONAL DATA										
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
GEOMETRY: apartments	Inter-storey height	H _n	m	-	-	-	-	-		
	Heated gross floor area	A _{H;g}	m ²	-	-	-	-	-		
	Heated net floor area	A _{H;n}	m²	82	26	65	78	94		
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m³	308	128	243	288	346		
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	81	100	24	29	108		
	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	10	24	3	4	6		
	Temperature of DHW	$\vartheta_{\sf W}$	°C	40	-	40	40	40		
É	DHW system power *	P _{W;gen}	kW	80	100	24	28	108		
	* These values refer to the apartment s	cale								



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