

 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_1971-1980 - 1980_E_TN

 Climatic zone:
 E
 Number of records:
 3585

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%)

	I			1						
	Data	Symbol	Unit of	Mean value	Standard	Q1 (first	Median	Q3 (third		
BUILDING GEOMETRY	Number of floors	nf	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	2113	1709	576	1220	3944		
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m ³	7571	6067	2120	4538	14910		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.49	0.11	0.40	0.50	0.56		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
悥	WWR – South orientation	WWR _S	-	_	-	-	-	-		
B	WWR – East orientation	WWR _E	_	_	_	-	-	-		
	WWR – West orientation	WWR _W	-	_	_	-	-	-		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	-	-	-	-	-		
ENVELOPE	Roof type				-					
	<i>U</i> -value of the roof	U _{fl;up}	W/(m²⋅K)	-	-	-	-	-		
	External walls type	7-1	, ,		-					
	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m ² ·K)	-	-	-	-	-		
	Slab on ground floor type	-								
	<i>U</i> -value of the floor	$U_{\rm fl;lw}$	W/(m ² ·K)	-	-	-	-	-		
	Windows type	-								
	<i>U</i> -value of the windows	U _W	W/(m ² ·K)	-	-	-	-	-		
	Shading system type			-						
z	Occupancy density *	O _C	person/m²	m ² UNI EN 16798-1 - Table A.19						
and IOI	Lighting power density *	W∟	W/m²	UNI EN 16798-1 - A.8.3						
NS I	Equipment power density *	W _A	W/m²	UNI EN 16798-1 - A.8.3						
GAINS and	Type of ventilation			Natural: 100%						
~ ⋝	Air exchange rate *	n	h ⁻¹	0.30	-	0.30	0.30	0.30		
	Heating system type	Centralized: 46%, Unknown: 30%, Autonomous: 24%								
THERMAL SYSTEMS	Heating generator	Boiler (unknown type): 70%, DHC: 11%, Traditional boiler: 10%, Condensing boiler: 8%, 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: 2%, Electricity: 1%, Gas Oil: 1%								
	Heating emission sub-system	-								
	Cooling system type	Unknown: 99%, Air-cooled chiller: 1%								
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system		-							
	DHW system type	Centralized – coupled with heating: 40%, Autonomous – coupled with heating: 31%, Unknown: 15%, District heating: 10%, Autonomous - detached from heating: 4%								
	DHW generator	Natural gas boiler: 79%, Unknown: 16%, Electric heat pump: 4%, Electric boiler: 1%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									



 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_1971-1980_E_TN

 Period of construction:
 1971-1980
 1980_E_TN

 Climatic zone:
 E
 Number of records:
 3585





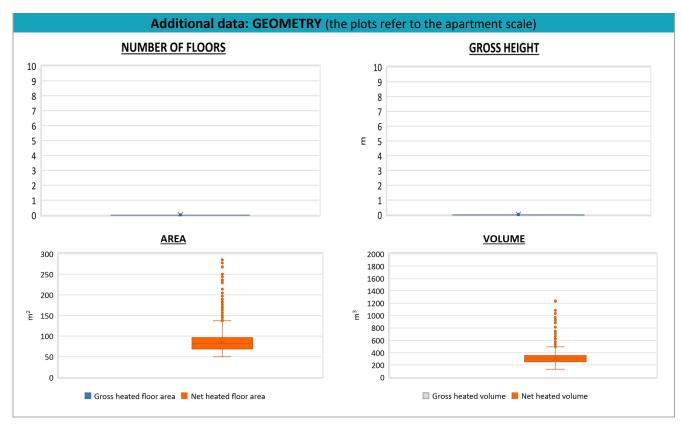
 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_1971-1980_E_TN

 Period of construction:
 1971-1980
 1980_E_TN

 Climatic zone:
 E
 Number of records:
 3585

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	86	25	69	82	96			
	Heated gross volume	V _{H;g}	m³	-	-	-	-	-			
	Heated net volume	V _{H;n}	m³	313	97	255	302	351			
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	197	206	28	141	295			
	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	8	17	3	4	5			
	Temperature of DHW	$\vartheta_{\sf W}$	°C	40	-	40	40	40			
	DHW system power *	P _{W;gen}	kW	191	206	27	119	295			
	* These values refer to the apartment s	cale									





 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Residential buildings – Apartments (in multifamily blocks)
 RES_APPBLOCK_1971-1980_E_TN

 Period of construction:
 1971-1980
 1980_E_TN

 Climatic zone:
 E
 Number of records:
 3585

