

Region: T		Trentino Alto Adige						Archetype code:			
Building category: Residential b		uildings – Ap	partments (in r	nultifamil	y blocks)		RES_APPBLOCK_1971-				
eriod o	of construction:	1971-1980						1980	_E_TN		
Climatic zone: E				Number	of records:	3585					
escript	tion (the codes asso	ciated with wall	s and slabs re	fer to the struct			11552:2014):	Data s	ources:		
xternal	<u>l walls:</u> no data av <u>bs</u> : no data availa	ailable					,	APE	(100%)		
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
	Number of floor	rs	nf	-	-	-	-	-	-		
	Gross height		Hg	m	-	-	-	-	-		
	Footprint area		A _{footprint}	m²	-	-	-	-	-		
	Heated gross floor area		A _{H;g}	m²	-	-	-	-	-		
TR)	Heated net floor area		A _{H;n}	m²	2113	1709	576	1220	3944		
B	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-		
B	Heated net volume		V _{H;n}	m ³	7571	6067	2120	4538	14910		
ğ	Compactness ratio		A _{env} /V _{H;g}	m ⁻¹	0.49	0.11	0.40	0.50	0.56		
BUILDING GEOMETRY	WWR – North orientation		WWR _N	-	-	-	-	-	-		
	WWR – South orientation		WWRs	-	-	-	-	-	-		
8	WWR – East orientation		WWRE	-	-	-	-	-	-		
	WWR – West or		WWRw	_	-	-	-	-	_		
	Window to useful floor area		A _{wi} /A _{use}	-	-	-	-	-	-		
	Roof type					-		·	1		
	<i>U</i> -value of the roof		U _{fl;up}	W/(m ² ·K)	-	-	-	-	-		
	External walls ty	/pe			1	-	1	1	1		
Ы	<i>U</i> -value of the wall		U _{wl}	W/(m²·K)	-	-	-	-	-		
ENVELOPE	Slab on ground	floor type			1	-	1	1	1		
N	<i>U</i> -value of the floor		U _{fl;lw}	W/(m ² ·K)	-	-	-	-	-		
	Windows type				1	-	1	1	1		
	<i>U</i> -value of the windows		Uw	W/(m²·K)	-	-	-	-	-		
	Shading system type				1	-	1	1	1		
7	Occupancy dens		Oc	<i>O</i> _C person/m ² UNI EN 16798-1 - Table A.19							
NO	Lighting power density *		W _L	W/m ²	UNI EN 16798-1 - A.8.3						
E E	Equipment pow		WA								
	Type of ventilat				1	Natural:					
, n	Air exchange ra		n	h-1	0.30	-	0.30	0.30	0.30		
		Heating system type		Centralized: 46%, Unknown: 30%, Autonomous: 24%							
S	Heating general		Boiler (u	Boiler (unknown type): 70%, DHC: 11%, Traditional boiler: 10%, Condensing boiler: 8%, Air source heat pump: 1%,							
	Daily operating heating system		t _H	h	14	-	14	14	14		
2 E	Energy carrier	carrier		Natural gas: 96%, District heating: 2%, Electricity: 1%, Gas Oil: 1%							
THERMAL SYSTEMS	Heating emissio	n sub-system		-							
	Cooling system			Unknown: 99%, Air-cooled chiller: 1%							
	Daily operating cooling system		tc	h	-	-	-	-	-		
	Cooling emissio	n sub-system				-					
	DHW system ty	pe	Centralized – coupled with heating: 40%, Autonomous – coupled with heating: 31%, Unknown: 15%, District heating: 10%, Autonomous - detached from heating: 4%								
	DHW generator		N	atural gas boiler	: 79%, Unk	nown: 16%, Ele	ectric heat pum	p: 4%, Electric bo	iler: 1%		

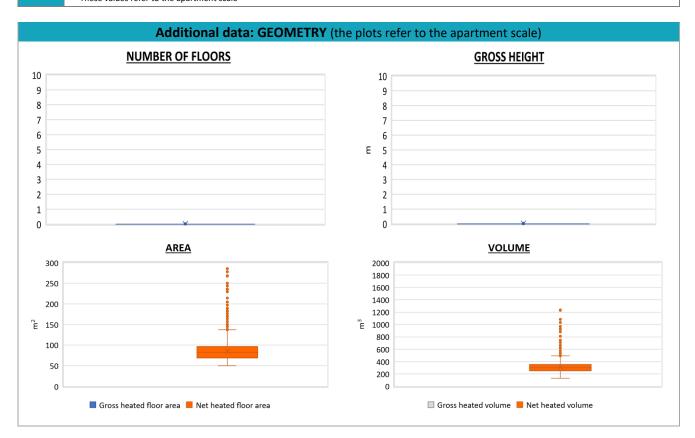






Region:	Trentino Alto Adige	Archetype code:		
Building category:	Residential buildings – A	RES_APPBLOCK_1971-		
Period of construction:	1971-1980	1980_E_TN		
Climatic zone:	E	Number of records:	3585	

ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
	Inter-storey height	H _n	m	-	-	-	-	-
Ents	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
GEOMETRY: apartments	Heated net floor area	A _{H;n}	m²	86	25	69	82	96
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-
	Heated net volume	V _{H;n}	m ³	313	97	255	302	351
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or COP _{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 EER _{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	ϑw	°C	40	-	40	40	40
	DHW system power *	P _{W;gen}	kW	191	206	27	119	295
	* These values refer to the apartment scale							



Residential buildings – Apartments (in multifamily blocks) – 1971/1980 – Zone E – Trentino Alto Adige



