

Region:		Trentino Alto Adige						Archetype code:		
Building category:		Commercial b	ouildings	COMM_1961-1970_E_TN						
Period of construction:		1961-1970								
Climatic zone: E		E	Number of records: 296							
Description (the codes associated with walls		s and slabs re	fer to the structu			11552:2014):	Data s	ources:		
<u>External walls:</u> no data available <u>Roof slabs</u> : no data available		· · · · · · · · · · · · · · · · · · ·					APE (100%)			
Data			Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
	Number of floors		nf	-	-	-	-	-	-	
	Gross height		Hg	m	-	-	-	-	-	
	Footprint area		A _{footprint}	m ²	-	-	-	-	-	
	Heated gross floor area		A _{H;g}	m ²	-	-	-	-	-	
ΓRΥ	Heated net floor area		A _{H;n}	m ²	245	603	75	111	199	
ME	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-	
E E	Heated net volume		V _{H;n}	m ³	1185	3414	317	481	806	
<u> </u>	Compactness ra	itio	A _{env} /V _{H;g}	m ⁻¹	0.62	0.16	0.51	0.61	0.69	
BUILDING GEOMETRY	<i>WWR</i> – North o		WWR _N	-	-	-	-	-	-	
l,	WWR – South o	rientation	WWRs	-	-	-	-	-	-	
8	WWR – East orientation		WWRE	-	-	-	-	-	-	
	WWR – West orientation		WWR _w	-	-	-	-	-	-	
	Window to useful floor area ratio		A _{wi} /A _{use}	-	-	-	-	-	-	
	Roof type				1	-	1			
	<i>U</i> -value of the roof		U _{fl;up}	W/(m ² ·K)	-	-	-	-	-	
	External walls ty				1	-	1			
ΒE	U-value of the w	vall	U _{wl}	W/(m ² ·K)	-	-	-	-	-	
ELO	Slab on ground floor type				1	-	1			
ENVELOPE	U-value of the f		U _{fl;lw}	W/(m²·K)	-	-	-	-	-	
_	Windows type					-	1			
	<i>U</i> -value of the windows		Uw	W/(m²·K)	-	-	-	-	-	
	Shading system type					-				
z	Occupancy density *		Oc person/m ² UNI EN 16798-1 - Table A.19							
and TION	Lighting power density *		WL	W/m ²	UNI EN 16798-1 - A.8.3					
NS 8	Equipment pow	Equipment power density *		WA W/m² UNI EN 16798-1 - A.8.3						
GAINS a	Type of ventilat	Type of ventilation		Natural: 100%						
° B	Air exchange rate *		n h ⁻¹ UNI EN 16798-1							
	Heating system type		Unknown: 59%, Autonomous: 24%, Centralized: 17%							
	Heating generat	leating generator		Boiler (Unknown): 39%, Traditional boiler: 18%; Condensing boiler: 17%, Air source heat pump: 12%, Unknown: 8%, DHC: 6%						
THERMAL SYSTEMS	Daily operating heating system		tн	h	14	-	14	14	14	
	Energy carrier		Natural gas: 87%, Electricity: 7%, District heating: 2%, Gas Oil: 3%, Electricity from PV, wind turbines, hydraulic turbines: 1%							
	Heating emission sub-system		-							
	Cooling system type				Unkno	wn: 86%, Air-c	ooled chiller: 14	1%		
	Daily operating time of the cooling system *		t _C	h	-	-	-	-	-	
	Cooling emission sub-system		-							
	DHW system typ	ре	Unknown: 40%, Autonomous - detached from heating: 29%, Autonomous – coupled with heating: 23%, Centralized – coupled with heating: 6%, District heating: 2%							
	DHW generator Unknown: 41% , Natural gas boiler: 30%, Electric heat pump: 15%, Electric boiler: 14%							iler: 14%		
	* 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. Commercial buildings – 1961/1970 – Zone E – Trentino Alto Adige





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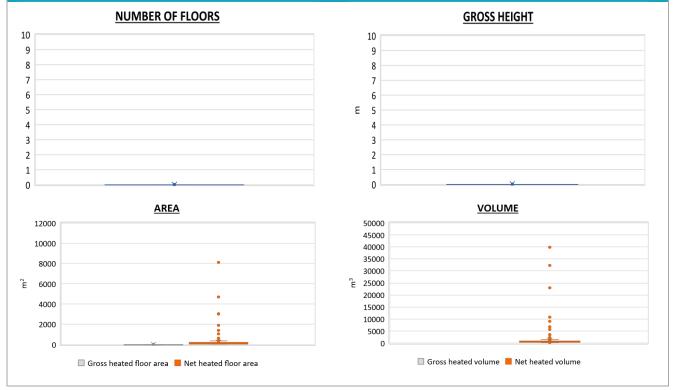
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ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ m H;gen}{ m or}$ $COP_{ m H;gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power	P _{H;gen}	kW	72	214	2	24	34
	Cooling efficiency or EER	$\eta_{ ext{C;gen}}$ or $\textit{EER}_{ ext{C;gen}}$	-	This value has to be retrieved from suitable datasheets				
	Total cooling power	P _{C;gen}	kW	84	45	8	22	71
	Temperature of DHW	ϑw	°C	40	-	40	40	40
	DHW system power	P _{W;gen}	kW	-	-	-	-	-

Additional data: GEOMETRY





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