

Roof slabs: no data available

 Region:
 Trentino Alto Adige
 Archetype code:

 Building category:
 Office buildings
 OFF_1981-1990_E_TN

 Period of construction:
 1981-1990

 Climatic zone:
 E
 Number of records:
 19

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

External walls: no data available

Data sources: APE (100%)

	Data	Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third		
	Data	Symbol	measure	value	deviation	quartile)	value	quartile)		
BUILDING GEOMETRY	Number of floors	n _f	-	-	-	-	-	-		
	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	372	702	93	151	336		
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-		
	Heated net volume	V _{H;n}	m³	1467	2721	359	602	1311		
	Compactness ratio	A _{env} /V _{H;g}	m ⁻¹	0.53	0.22	0.35	0.52	0.65		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
5	WWR – South orientation	WWR _S	-	-	-	-	-	-		
	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/(m²·K)	-	-	-	-	-		
	External walls type				-					
PE	<i>U</i> -value of the wall	U_{wl}	W/(m²·K)	-	-	-	-	-		
ŒĽ	Slab on ground floor type				-			•		
ENVELOPE	<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/(m²⋅K)	-	-	-	-	-		
	Shading system type				-					
_ z	Occupancy density *	<i>O</i> _C	person/m²	UNI EN 16798-1 - Table A.19						
anc	Lighting power density *	W_{L}	W/m²			UNI EN 16798	-1 - A.8.3			
GAINS and	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	-1 UNI EN 16798-1						
	Heating system type	Unknown: 81%, Autonomous: 11%, Centralized: 8%								
	Heating generator	Traditional boiler: 34%, Condensing boiler: 30%, Boiler (unknown type): 17%, Air source heat pump: 10%, DHC: 5%, Unknown: 3%, Water-source heat pump: 1%								
EMS	Daily operating time of the heating system *	t _H	h	14	-	14	14	14		
	Energy carrier	Natural gas: 84%, Electricity: 10%, District heating: 4%, Solid biomass: 1%, Gas Oil: 1%								
YST	Heating emission sub-system	-								
THERMAL SYSTE	Cooling system type	Unknown: 69%, Air-cooled chiller: 29%, Water-cooled chiller: 2%								
	Daily operating time of the cooling system *	t _C	h	-	-	-	-	-		
	Cooling emission sub-system	-								
	DHW system type	Autonomous - detached from heating: 35%, Unknown: 35%, Autonomous – coupled with heating: 26%, Centralized – coupled with heating: 2%, District heating: 2%								
	DHW generator	Ur	nknown: 36%, Na	atural gas b	ooiler: 30%, Ele	ctric boiler: 26%	6, Electric heat ρι	ımp: 8%		
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									



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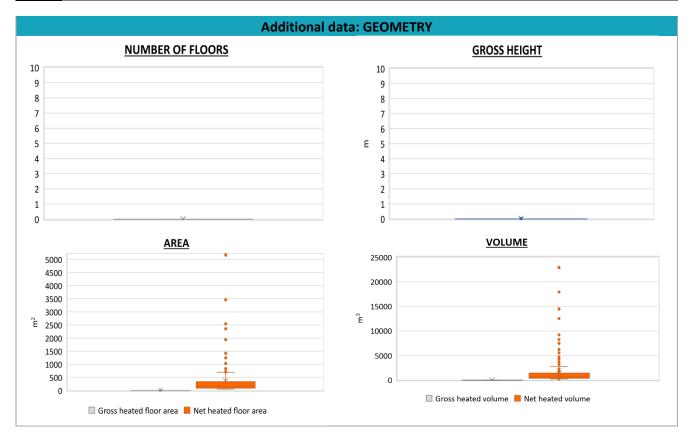
The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source.

Office buildings – 1981/1990 – Zone E – Trentino Alto Adige2



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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	$\eta_{\sf H;gen}$ or $ extit{COP}_{\sf H;gen}$	-	This value has to be retrieved from suitable datasheets					
	Total heating power	P _{H;gen}	kW	39	80	2	24	30	
	Cooling efficiency or EER	$\eta_{C;gen}$ or $\mathit{EER}_{C;gen}$	-	This value has to be retrieved from suitable datasheets					
	Total cooling power	P _{C;gen}	kW	67	81	7	32	94	
	Temperature of DHW	ϑ_{W}	°C	40	-	40	40	40	
	DHW system power	P _{W;gen}	kW	-	-	-	-	-	





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