

Region:		Trentino Alto Adige						Archetype code:		
Building category:		Educational b	uildings	EDUC_1981-1990_E_TN						
		1981-1990								
Climatic zone: E		Number of records: 39				39				
		s and slabs re	and slabs refer to the structures described in UNI/TR 11552:2014):					Data sources:		
External	<u>l walls:</u> no data av	ailable						APE (APE (100%)	
Roof sla	<u>bs</u> : no data availa	ble								
	Data		Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third	
			-,	measure	value	deviation	quartile)	value	quartile)	
	Number of floor	rs	nf	-	-	-	-	-	-	
	Gross height		Hg	m	-	-	-	-	-	
	Footprint area		A _{footprint}	m²	-	-	-	-	-	
	Heated gross floor area		A _{H;g}	m²	-	-	-	-	-	
69503	Heated net floor area		A _{H;n}	m²	3061	3583	653	2024	3921	
	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-	
	Heated net volume		V _{H;n}	m ³	14138	16742	3014	7366	19462	
69	Compactness ra	Compactness ratio		m-1	0.55	0.16	0.40	0.57	0.67	
	WWR – North orientation		WWR _N	-	-	-	-	-	-	
	WWR – South orientation		WWRs	-	-	-	-	-	-	
	WWR – East orientation		WWR _E	-	-	-	-	-	-	
	WWR – West orientation		WWR _w	-	-	-	-	-	-	
	Window to useful floor area ratio		A _{wi} /A _{use}	-	-	-	-	-	-	
	Roof type		1			-	·	<u>.</u>	-	
	U-value of the roof		U _{fl;up}	W/(m²·K)	-	-	-	-	-	
	External walls type					-			·	
DPE	U-value of the wall		U _{wl}	W/(m²⋅K)	-	-	-	-	-	
ENVELOPE	Slab on ground floor type					-				
EN	U-value of the floor		U _{fl;lw}	W/(m²⋅K)	-	-	-	-	-	
	Windows type					-				
	U-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 of	density *	WL	W/m ²	UNI EN 16798-1 - A.8.3					
GAINS a		Equipment power density *		W/m ²	UNI EN 16798-1 - A.8.3					
GA 'EN'		Type of ventilation		Natural: 100%						
>	Air exchange rate *		n	h-1			UNI EN 16			
	Heating system type		Centralized: 41%, Unknown: 41%, Autonomous: 18%							
		eating generator		Boiler (unknown type): 59%, Condensing boiler: 26%, Traditional boiler: 10%, DHC: 5%						
THERMAL SYSTEMS	Daily operating heating system		t _H	h	14	-	14	14	14	
	Energy carrier		Natural gas: 90%, Gas Oil: 7%, District heating: 3%							
	Heating emission sub-system		-							
	Cooling system type		Unknown: 84%, Air-cooled chiller: 13%, Water-cooled chiller: 3%							
	Daily operating time of the cooling system *		t _C	h	-	-	-	-	-	
		Cooling emission sub-system		-						
	DHW system typ	system type		Centralized – coupled with heating: 36%, Autonomous – coupled with heating: 28%, Unknown: 16%, Autonomous - detached from heating: 15%, District heating: 5%						
	DHW generator						boiler: 16%, Ur			
	* These values were	These values were not available in the considered sources, and are thus derived from UNI EN Standards								







(cc) 🛈 🗊

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. Educational buildings – 1981/1990 – Zone E – Trentino Alto Adige



Region:	Trentino Alto Adige	Archetype code:		
Building category:	Educational buildings			EDUC_1981-1990_E_TN
Period of construction:	riod of construction: 1981-1990			
Climatic zone:	E	Number of records:	39	

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	240	320	46	150	313
	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	448	392	48	550	748
	Temperature of DHW	ϑw	°C	40	-	40	40	40
	DHW system power	P _{W;gen}	kW	240	319	46	150	312

Additional data: GEOMETRY









