

Climatic zo Descriptio External w Roof slabs	construction:	Non-resident 1981-1990	tial buildings	- Educationa	huildings			EDUC_1981			
Climatic zo Descriptio External w Roof slabs		1981-1990			bullulligs	Non-residential buildings – Educational buildings					
Descriptio External w Roof slabs	one:										
External w Roof slabs		E			Number	of records:	52				
External w Roof slabs	on (the codes assoc	iated with wal	ls and slabs re	efer to the struc	ures describ	ed in UNI/TR 1	1552:2014):	Data s	ources:		
roof (cod.	valls: hollow brick s: insulated reinfo CIN03) or insulat	masonry wit	th thermal i e floor slab	nsulation (cod for walkable fl	MCV02). at roof (cod	l. COP03), foi		EPC databa	ases (100%)		
ſ	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
1	Number of floors		nf	-	-	-	- -	-	-		
_	Gross height		Hg	m	-	-	-	-	-		
_	Footprint area		A _{footprint}	m ²	-	-	-	-	-		
	Heated gross floor area		A _{H;g}	m ²	-	-	_		-		
L RY	Heated net floor area		A _{H;n}	m²	2526.7	2253.8	831.8	1888.8	3349.7		
E E	Heated gross volume		V _{H;g}	m ³	11175.0	9950.4	3503.3	8091.4	14377.5		
EO	Heated net volume		V _{H;n}	m ³	-	-	-	-	-		
	Compactness ratio		$A_{\rm env}/V_{\rm H;g}$	m ⁻¹	0.55	0.26	0.41	0.55	0.63		
	WWR – North orientation		WWR _N	-	-	-	-	-	-		
5	WWR – South ori		WWRs	_	-	-	-	_	-		
	WWR – East orier		WWR _E	_	-	-	-	_	-		
-	WWR – West orie		WWRw	-	_	-	_	_	-		
١	Window to useful floor area		A _{wi} /A _{use}	-	0.17	0.05	0.14	0.18	0.20		
	ratio										
	Roof type			\A///		-					
	U-value of the roo		U _{fl;up}	W/(m²⋅K)	-	-	- 70/. Calid Driek	-	-		
	External walls typ				J%; Pretabric	ated panels: 1	7%; Solid Brick	masonry: 13%; U			
	U-value of the wa		U _{wl}	W/(m²⋅K)	-	-	-	-	-		
	Slab on ground flo			W/(m²⋅K)		-					
	/-value of the floor		U _{fl;lw}	₩/(m-•K)	-	-	-	-	-		
	Windows type U-value of the windows		Uw	W/(m²⋅K)	2.93	0.95	2.74	2.96	3.41		
			$U_{\rm W}$	VV/(III-·K)	2.95	0.95	2.74	2.90	5.41		
	Shading system type										
₽ ∩ –	Occupancy densit			person/m ²	UNI EN 16798-1 - Table A.19						
GAINS an /ENTILATIO	Lighting power de	•	W _L	W/m ²	UNI EN 16798-1 - A.8.3						
GAINS ai VENTILATI	Equipment powe		WA	W/m ²			UNI EN 16798-:	1 - A.8.3			
		/pe of ventilation		h ⁻¹		-					
		ir exchange rate *		11-	-	-	-	-	-		
	Heating system ty	-	Autonomous: 100%								
[Heating generato Daily operating ti		t _H	h	14.00	0.00	14.00	14.00	14.00		
	heating system * Energy carrier			Natural Case 9	70/. Floatriai	hu E0/. Calid hi	amass: 49/+ LDC	. 20/ . Unknown.	20/		
LEWIS	Heating emission	sub-	Natural Gas: 87%; Electricity: 5%; Solid biomass: 4%; LPG: 2%; Unknown: 2%								
SVS	system	200									
AL L	Cooling system ty Daily operating ti	-				-					
ERN	cooling system *		t _C	h	-	-	-	-	-		
	Cooling emission system	sub-				-					
ſ	DHW system type	2	Autonomous, detached from heating: 54%; Centralized, coupled with heating: 33%; Centralized, detached from heating: 12%; Autonomous, coupled with heating: 1%								
1	DHW generator		·								
*	* These values are derived from UNI EN ISO 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. Non-residential buildings – Educational buildings – 1981-1990 – Zone E – Piedmont





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Region: Piedmont				Archetype code:	
Building category:	Non-residential building	EDUC_1981-1990_E_PIE			
Period of construction: 1981-1990					
Climatic zone:	E	Number of records:	52		

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	$\eta_{ m H;gen}$ or $COP_{ m H;gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power	P _{H;gen}	kW	284.8	213.8	124.9	230.6	357.3
	Cooling efficiency or EER	$\eta_{C;gen}$ or EER _{C;gen}	-	This value has to be retrieved from suitable datasheets				
	Total cooling power	P _{C;gen}	kW	5.1	1.8	5.0	5.2	5.4
	Temperature of DHW	ϑw	°C	40.0	0.0	40.0	40.0	40.0
	DHW system power	P _{W;gen}	kW	94.8	148.7	2.6	12.8	141.5

Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE



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