

Region: Piedmont							Archetype code: RES_APPBLOCK_1931- 1940_F_PIE			
Building category: Residential bu		uildings - Apartments (in multifamily blocks)								
Period of construction: 1931-1940 Climatic zone: F		Number of records: 1185								
escript	tion (the codes asso	ociated with walls	and slabs re	fer to the struct	ures descri	bed in UNI/TR	11552:2014):	Data s	ources:	
	<u>l walls</u> : solid brick I <u>bs</u> : concrete floor							EPC datab	ases (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	-	-	-	-	-	
ž	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-	
<u>e</u>	Heated net volume		V _{H;n}	m ³	-	-	-	-	-	
<u>u</u>	Compactness ra		A _{env} /V _{H;g}	m ⁻¹	0.72	0.28	0.55	0.72	0.86	
BUILDING GEOMETRY	WWR – North orientation		WWR _N	-	-	-	-	-	-	
5	WWR – South orientation		WWRs	_	-	-	-	-	_	
8	WWR – East orientation		WWR _E	-	_	_	-	-	-	
	WWR – West or		WWRw	_	_	_	_	_	_	
	Window to usef		A _{wi} /A _{use}	-	0.16	0.07	0.12	0.15	0.20	
	Roof type					-				
	U-value of the r	oof	U _{fl;up}	W/(m²·K)	-	-	-	-	-	
	External walls ty	/pe	/F		masonry: 8	85%; Hollow bi	rick masonry: 11	%; Unknown: 4%	, ,)	
E E	U-value of the v		U _{wl}	W/(m²·K)	-	-	-	-	-	
ENVELOPE	Slab on ground	floor type			1	-			1	
2 N	U-value of the f		U _{fl;lw}	W/(m ² ·K)	-	-	-	-	-	
	Windows type				1	-	11		1	
	U-value of the v	vindows	Uw	W/(m ² ·K)	3.23	1.24	2.33	3.09	4.32	
	Shading system				1	-	1 1			
_	Occupancy dens		Oc	person/m ²	¹ /m ² UNI EN 16798-1 - Table A.19					
GAINS and VENTILATION		Lighting power density *		W/m ²	UNI EN 16798-1 - A.8.3					
	Equipment pow		W _L	W/m ²	UNI EN 16798-1 - A.8.3 UNI EN 16798-1 - A.8.3					
	Type of ventilat		•••	/	1	Natural:				
	Air exchange ra		n	h-1	0.30	0.00	0.30	0.30	0.30	
	<u>U</u>						1 1		0.00	
THERMAL SYSTEMS	Heating system type Autonomous: 85%; Centralized: 15% Heating generator -									
	Daily operating heating system	time of the	t _H	t _H h No limitation						
	Energy carrier								ct heating: 1%	
	Heating emissio	n sub-system				-				
	Cooling system					-				
	Daily operating cooling system	time of the	t _C	h	-	-	-	-	-	
	Cooling emissio					-	<u> </u>		1	
	DHW system ty		Autonomous, coupled with heating: 45%; Autonomous, detached from heating: 31%; Centralized, coupled with heating: 22%; Centralized, detached from heating: 2%							
	DHW generator	nerator -								







(c) (1) (2)

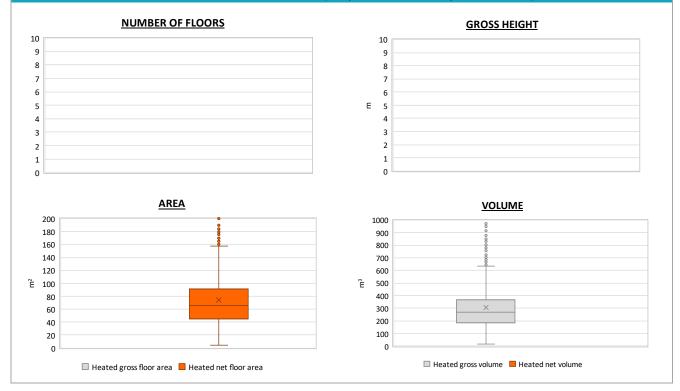
The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source. Residential buildings – Apartment blocks – 1931-1940 – Zone F – Piedmont



Region:	n: Piedmont				
Building category:	Residential buildings - A	RES_APPBLOCK_1931-			
Period of construction:	1931-1940	1940_F_PIE			
Climatic zone:	F	Number of records:	1185		

ADDITIONAL DATA								
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
GEOMETRY: apartments	Inter-storey height	H _n	m	-	-	-	-	-
	Heated gross floor area	A _{H;g}	m ²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m ²	74.7	46.5	45.5	66.1	91.1
	Heated gross volume	V _{H;g}	m ³	304.4	189.5	185.4	270.3	367.9
9 U	Heated net volume	V _{H;n}	m ³	-	-	-	-	-
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	22.5	7.4	21.0	24.0	26.0
	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	6.0	3.9	2.7	5.8	7.6
	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0
ΞĒ.	DHW system power *	P _{W;gen}	kW	17.1	11.5	1.5	23.3	24.8
	* These values refer to the apartment s	cale						

Additional data: GEOMETRY (the plots refer to the apartment scale)





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