

Region:		Piedmont						Archetype code:			
uilding	g category:	Residential b	uildings - Ap	artments (in n	nultifamily	/ blocks)		RES_APPB	RES_APPBLOCK_2011-		
eriod o	of construction:	> 2010						F	PIE		
Climatic zone: F		F			Number	of records:	1165				
escrip	tion (the codes asso	ciated with wall	ls and slabs re	fer to the struct			11552:2014):	Data s	ources:		
xterna	<u>l walls</u> : hollow bric <u>bs</u> : reinforced con	k masonry wit	th thermal ir	sulation (cod.				EPC datab	ases (100%)		
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)		
	Number of floors	5	nf	-	-	-	-	-	-		
	Gross height		Hg	m	-	-	-	-	-		
	Footprint area		A _{footprint}	m²	-	-	-	-	-		
2	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	-	-	-	-	-		
GEC	Heated net volume		V _{H;n}	m ³	-	-	-	-	-		
Building geometry	Compactness ratio		A _{env} /V _{H;g}	m ⁻¹	0.62	0.24	0.45	0.64	0.75		
ā	WWR – North orientation		WWR _N	-	-	-	-	-	-		
Ĩ	WWR – South orientation		WWRs	-	-	-	-	-	-		
-	WWR – East orientation		WWR _E	-	-	-	-	-	-		
	WWR – West ori	entation	WWRw	-	-	-	-	-	-		
	Window to usefu ratio	Il floor area	A _{wi} /A _{use}	-	0.20	0.07	0.15	0.20	0.24		
	Roof type					-					
	U-value of the ro	of	U _{fl;up}	W/(m²⋅K)	-	-	-	-	-		
DE	External walls ty	walls type Hollow brick masonry: 73%; Solid Brick masonry: 19%; Unknown: 7%; Prefabricated pane							ed panels: 1%		
	U-value of the w	all	U _{wl}	W/(m²⋅K)	-	-	-	-	-		
ENVELOPE	Slab on ground f	loor type				-					
ĒN	U-value of the flo	oor	U _{fl;lw}	W/(m²·K)	-	-	-	-	-		
	Windows type					-					
	U-value of the w	indows	Uw	W/(m²·K)	1.59	0.68	1.20	1.44	1.74		
	Shading system t	зуре				-					
N	Occupancy densi	Occupancy density *		person/m ² UNI EN 16798-1 - Table A.19							
	Lighting power d	Lighting power density *		W/m ²	UNI EN 16798-1 - A.8.3						
2 ≦_	Equipment powe	er density *	WA								
	Type of ventilation	on				Natural:	100%				
>	Air exchange rate	e *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30		
THERMAL SYSTEMS	Heating system type		Autonomous: 61%; Centralized: 39%								
	Heating generate	or				-					
	Daily operating t heating system *		t _H h No limitation								
	Energy carrier		Natural Gas: 57%; Electricity: 25%; District heating: 8%; Solid biomass: 6%; LPG: 2%; Liquid and gaseous biomass: 1%; Gas Oil: 1%								
	Heating emission					-					
	Cooling system t		ļ		1	-			1		
	Daily operating t cooling system *		tc	h	-	-	-	-	-		
	Cooling emission	sub-system	· ·								
	DHW system typ	e	Autonomous, coupled with heating: 47%; Centralized, coupled with heating: 35%; Autonomous, detached from heating: 17%; Centralized, detached from heating: 1%								
	DHW generator	DHW generator -									







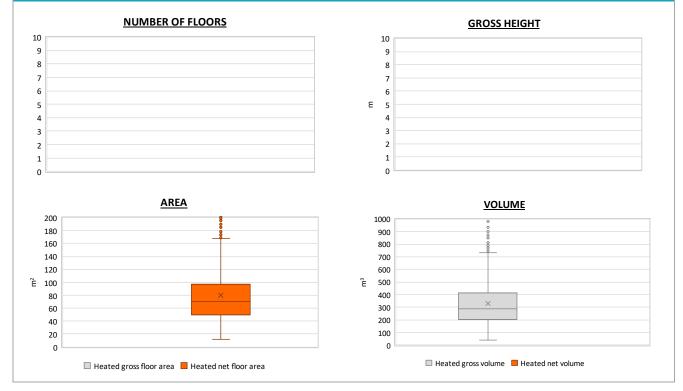
The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source. Residential buildings – Apartment blocks – > 2010 – Zone F – Piedmont

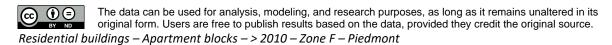


Region:	Region: Piedmont				
Building category:	Building category: Residential buildings - Apartments (in multifamily blocks)				
Period of construction:	> 2010	_F_PIE			
Climatic zone:	F	Number of records:	1165		

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}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m²	79.8	40.4	49.8	70.8	97.4
	Heated gross volume	V _{H;g}	m ³	330.0	176.7	202.0	287.8	414.6
0.0	Heated net volume	V _{H;n}	m ³	-	-	-	-	-
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ m H;gen}$ or $COP_{ m H;gen}$	-	This value has to be retrieved from suitable datasheets				tasheets
	Total heating power *	P _{H;gen}	kW	20.7	9.7	11.7	23.7	27.6
	Cooling efficiency or EER	η _{C;gen} or EER _{C;gen}	-	This value has to be retrieved from suitable datas			tasheets	
	Total cooling power *	P _{C;gen}	kW	7.7	3.6	6.6	6.6	6.6
	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0
ΞĒ.	DHW system power *	P _{W;gen}	kW	20.0	10.8	9.6	24.0	27.7
	* These values refer to the apartment s	scale						

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











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