

Region: Piec		Piedmont	iedmont						Archetype code:		
Building category: Residential building category		uildings - Ap	artments (in m	ultifamily	/ blocks)		RES_APPBLOCK_2001-				
Period of construction: 2001-2010 Climatic zone: E							 2010_E_PIE				
		Number of records: 18517									
Description (the codes associated with walls			s and slabs re	fer to the struct			11552:2014):	Data sources:			
•	l walls: hollow bri						,	EPC datab	ases (100%)		
	abs: reinforced con				/						
	Data		Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third		
				measure	value	deviation	quartile)	value	quartile)		
	Number of floo	rs	nf	-	-	-	-	_	-		
	Gross height		Hg	m	-	-	-	-	-		
	Footprint area		A _{footprint}	m²	-	-	-	-	-		
≻	Heated gross floor area		A _{H;g}	m ²	-	-	-	-	-		
ETR	Heated net floor area		A _{H;n}	m²	-	-	-	-	-		
N	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-		
GE	Heated net volume		V _{H;n}	m ³	-		-	-	-		
Building geometry	Compactness ra	ntio	A _{env} /V _{H;g}	m ⁻¹	0.58	0.33	0.39	0.58	0.72		
<u> </u>	WWR – North orientation		WWR _N	-	-	-	-	-	-		
IIn	WWR – South orientation		WWRs	-	-	-	-	-	-		
	WWR – East orientation		WWRE	-	-	-	-	-	-		
	WWR – West or	rientation	WWRw	-	-	-	-	-	-		
	Window to usef ratio	Window to useful floor area ratio		-	0.17	0.17	0.13	0.17	0.20		
	Roof type					-					
	U-value of the r	oof	U _{fl;up}	W/(m²·K)	-	-	-	-	-		
	External walls ty	ype			'8%; Solid I	Brick masonry:	19%; Unknown	: 2%; Prefabricat	ed panels: 1%		
Н	U-value of the w		U _{wl}	W/(m ² ·K)	-	-	-	-	-		
ENVELOPE	Slab on ground	floor type			1	-			1		
N.	U-value of the floor		U _{fl;lw}	W/(m²·K)	-	-	-	-	-		
<u> </u>	Windows type		, 		1	-			1		
	<i>U</i> -value of the windows		Uw	W/(m²·K)	2.44	0.68	1.96	2.43	2.86		
	Shading system type				I	-			1		
7	Occupancy den		Oc	person/m ²	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 _A	W/m ²	UNI EN 16798-1 - A.8.3						
E E	Type of ventilat				1	Natural:	100%				
, R		Air exchange rate *		h-1	0.30	0.00	0.30	0.30	0.30		
	Heating system		n	1	Auto	nomous: 82%;	Centralized: 189				
THERMAL SYSTEMS	Heating generat										
	Daily operating heating system	time of the	t _H	h	14.00	0.00	14.00	14.00	14.00		
	Energy carrier		Natura	l Gas: 80%: Elect	ricity: 6%:	District heating	z: 6%: Solid bion	nass: 4%: LPG: 2%	: Gas Oil: 2%		
	Heating emission sub-system		Natural Gas: 80%; Electricity: 6%; District heating: 6%; Solid biomass: 4%; LPG: 2%; Gas Oil: 2% -								
	Cooling system					-					
	Daily operating time of the cooling system *		t _C	h	-	-	-	-	-		
	Cooling system										
	DHW system ty		Autonomous, coupled with heating: 79%; Centralized, coupled with heating: 16%; Autonomous, detached from heating: 4%; Centralized, detached from heating: 1%								
	DHW generator		-								
	* These values are derived from UNI EN ISO Standards										







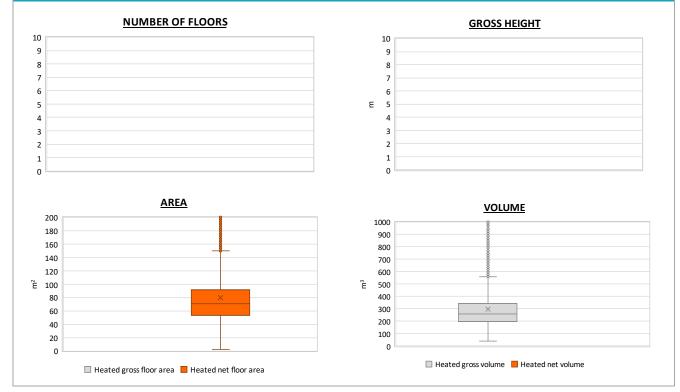
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Region:	Region: Piedmont				
Building category:	Residential buildings - A	RES_APPBLOCK_2001-			
Period of construction:	2001-2010	2010_E_PIE			
Climatic zone:	E	Number of records:	18517		

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	80.0	42.9	53.7	70.5	92.1
	Heated gross volume	V _{H;g}	m ³	297.7	166.3	199.1	261.1	342.4
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				tasheets
	Total heating power *	P _{H;gen}	kW	24.6	3.7	23.8	24.0	25.8
	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	5.3	5.2	3.0	3.5	5.3
	Temperature of DHW	ϑ_{W}	°C	40.0	0.0	40.0	40.0	40.0
ΞĒ.	DHW system power *	P _{W;gen}	kW	24.3	4.5	23.8	24.0	25.8
	* These values refer to the apartment s	cale						

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



 $\underbrace{\textcircled{C}}_{BV} \underbrace{\textcircled{C}}_{BV} \underbrace{\textcircled{C}}_{BV}$ 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 – Apartments –2001-2010 – Zone E – Piedmont*





