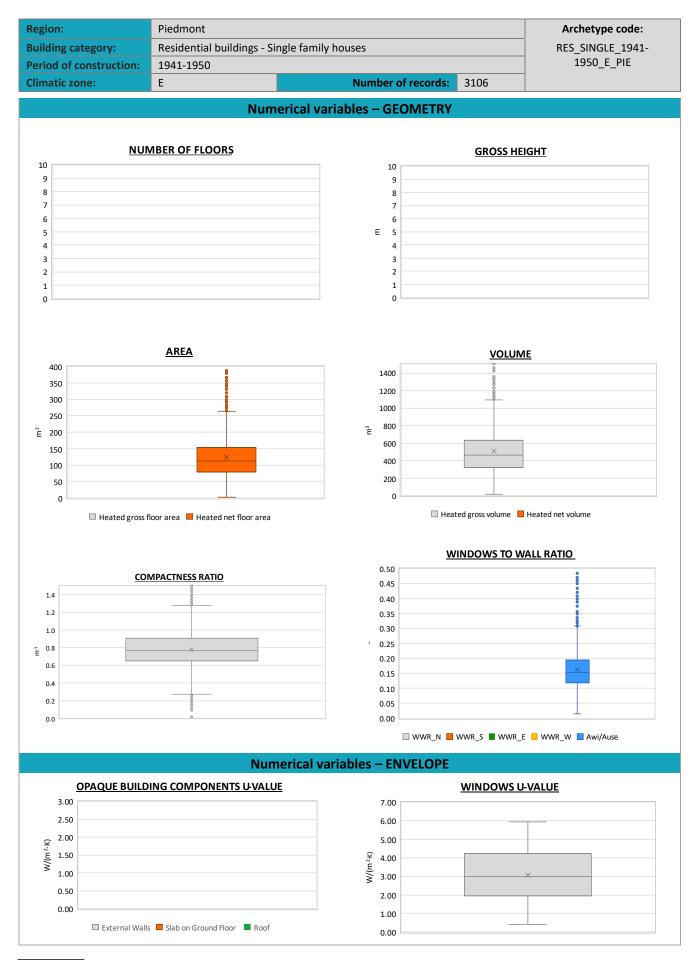


Region:		Piedmont						Archetype code:		
Building category: Re		Residential bu	Residential buildings - Single family houses						RES_SINGLE_1941-	
	of construction:	1941-1950						1950	_E_PIE	
Climatic zone: E		Number of records: 3106								
	tion (the codes asso	ciated with walls	s and slabs re	fer to the struct				Data s	sources:	
<u>Externa</u>	il walls: solid brick abs: pitched wood	masonry (cod.	MLP01).				,		ases (100%)	
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
	Number of floor	Number of floors		-	-	-	-	-	-	
	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	124.1	69.9	79.0	112.2	153.6	
N	Heated gross volume		V _{H;g}	m ³	513.4	308.7	322.3	465.5	634.5	
BEO	Heated net volume		V _{H;n}	m ³	-	-	-	-	-	
BUILDING GEOMETRY	Compactness ra	tio	A _{env} /V _{H;g}	m ⁻¹	0.78	0.24	0.65	0.77	0.90	
۲ <u>م</u>	WWR – North o	rientation	WWR _N	-	-	-	-	-	-	
15	WWR – South o	rientation	WWRs	-	-	-	-	-	-	
8	WWR – East orientation		WWRE	-	-	-	-	-	-	
	WWR – West or	ientation	WWRw	-	-	-	-	-	-	
	Window to useful floor area ratio		A _{wi} /A _{use}	-	0.16	0.07	0.12	0.15	0.19	
	Roof type					-				
	U-value of the roof		U _{fl;up}	W/(m²⋅K)	-	-	-	-	-	
	External walls ty	/pe		Solid Brick	masonry: 8	80%; Hollow bi	rick masonry: 16	5%; Unknown: 4%	6	
DE	U-value of the w	vall	U _{wl}	W/(m²⋅K)	-	-	-	-	-	
,ELC	Slab on ground	floor type				-		-	·	
ENVELOPE	U-value of the floor		U _{fl;lw}	W/(m²⋅K)	-	-	-	-	-	
	Windows type					-		-	·	
	U-value of the windows		Uw	W/(m²·K)	3.06	1.30	1.96	2.97	4.23	
	Shading system type									
z	Occupancy dens	Occupancy density *		person/m ²	1 ² UNI EN 16798-1 - Table A.19					
nd	Lighting power density *		WL	W/m ²	UNI EN 16798-1 - A.8.3					
GAINS an VENTILATI		Equipment power density *		W/m ²	UNI EN 16798-1 - A.8.3					
		ype of ventilation		WA W/m² UNI EN 16798-1 - A.8.3 Natural: 100% Natural: 100%						
S N	Air exchange rat	Air exchange rate *		h-1	0.30	0.00	0.30	0.30	0.30	
	Heating system	type				Autonomo	us: 100%		1	
THERMAL SYSTEMS	Heating generat					-				
	Daily operating heating system		t _H	h	14.00	0.00	14.00	14.00	14.00	
	Energy carrier		Natural Gas: 85%; Electricity: 6%; Solid biomass: 3%; LPG: 2%; District heating: 2%; Gas Oil: 2%							
	Heating emissio	n sub-system	-							
	Cooling system	type				-				
	Daily operating time of the cooling system *		t _c	h	-	-	-	-	-	
		oling emission sub-system		-						
	DHW system typ	be	Autonomous, coupled with heating: 68%; Autonomous, detached from heating: 19%; Centralized, coupled with heating: 12%; Centralized, detached from heating: 1%							
	DHW generator	IW 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. Residential buildings – Single family houses – 1941-1950 – Zone E – Piedmont





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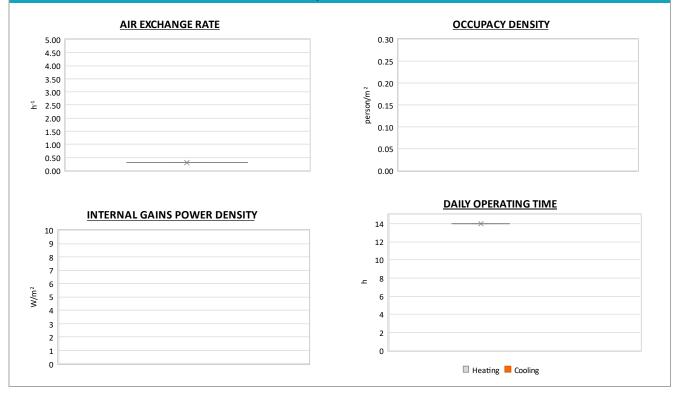
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Region:	Archetype code:				
Building category:	ategory: Residential buildings - Single family houses				
Period of construction: 1941-1950				1950_E_PIE	
Climatic zone:	E	Number of records:	3106		

			ADDITIONA	L DATA					
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
S	Heating efficiency or COP	$\eta_{ m H;gen}$ or $COP_{ m H;gen}$	-	This value has to be retrieved from suitable datasheets					
ž	Total heating power	P _{H;gen}	kW	28.3	52.4	23.6	24.6	29.0	
L SYSTEMS	Cooling efficiency or EER	$\eta_{C;gen}$ or EER _{C;gen}	-	This value has to be retrieved from suitable datasheets					
THERMAL	Total cooling power	P _{C;gen}	kW	19.2	179.6	3.4	5.0	7.8	
ER	Temperature of DHW	ϑw	°C	40.0	0.0	40.0	40.0	40.0	
Ė.	DHW system power	P _{W;gen}	kW	27.6	146.5	21.0	24.0	28.0	

Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE



 $\underbrace{\textcircled{O}}_{\text{EV}} \underbrace{\textcircled{O}}_{\text{EV}} = 1 \\ \text{The data can be used for analysis, modeling, and research purposes, as long as it remains unaltered in its original form. Users are free to publish results based on the data, provided they credit the original source. Residential buildings – Single family houses – 1941-1950 – Zone E – Piedmont \\ \underbrace{\textcircled{O}}_{\text{EV}} = 1 \\ \underline{O}_{\text{EV}} = 1 \\ \underline{O}_{\text{EV}}$





