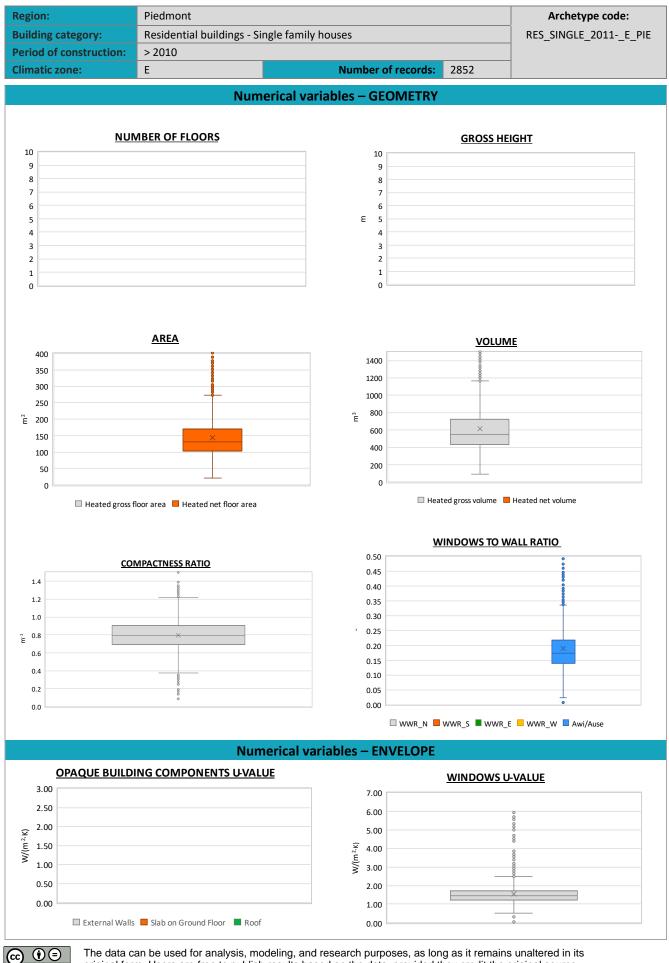


Region:		Piedmont						Archetype code:		
Building category: Resid		Residential b	dential buildings - Single family houses						_2011E_PIE	
	of construction:	> 2010								
Climatio		E			Number	of records:	2852			
	tion (the codes asso	_	s and slahs re	fer to the struct				Datas	ources:	
	I walls: hollow bri						-		ases (100%)	
	ermal insulation (c						masoniy			
	abs: insulated rein		e floor slab	for walkable fla	at roof (co	d. COP03). fo	or pitched			
	od. CIN03) or insul									
	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}	m ²	-	-	-	-	-	
~	Heated gross floor area		A _{H;g}	m ²	-	-	-	-	-	
TR	Heated net floor area		A _{H;n}	m²	144.5	71.9	102.5	130.7	171.0	
W	Heated gross volume		V _{H;g}	m ³	612.9	310.1	429.4	548.5	724.7	
BUILDING GEOMETRY	Heated net volume		V _{H;n}	m ³	-	-	-	-	-	
5 N	Compactness ratio		A _{env} /V _{H;g}	m-1	0.80	0.19	0.69	0.79	0.90	
	WWR – North o	rientation	WWR _N	-	-	-	-	-	-	
ling ling	WWR – South o	rientation	WWRs	-	-	-	-	-	-	
-	WWR – East ori	entation	WWR _E	-	-	-	-	-	-	
	WWR – West or	rientation	WWRw	-	-	-	-	-	-	
	Window to useful floor area ratio		A _{wi} /A _{use}	-	0.19	0.15	0.14	0.17	0.22	
	Roof type				1	-	1	1		
	<i>U</i> -value of the roof		U _{fl;up}	W/(m ² ·K)	-	-	-	-	-	
		External walls type			7%; Solid B	rick masonry:	30%; Unknown:	12%; Prefabricat	ed panels: 1%	
H	U-value of the wall		U _{wl}	, W/(m²·К)	-	-	-	-	-	
ENVELOPE		lab on ground floor type				-	1	1	1	
Ň	<i>U</i> -value of the floor		U _{fl;lw}	W/(m ² ·K)	-	-	-	-	-	
ш	Windows type			,,,,,,		-	1	1	1	
	U-value of the windows		Uw	W/(m ² ·K)	1.55	0.56	1.22	1.43	1.72	
		Shading system type				-				
		Occupancy density *		person/m ²	2 UNI EN 16798-1 - Table A.19					
р No	Lighting power density *		0 _C W _L	W/m ²	UNI EN 16798-1 - A.8.3					
IS a LAT		Equipment power density *		W/m ²	UNI EN 16798-1 - A.8.3					
NIA	Type of ventilat			WA W/m² UNI EN 16798-1 - A.8.3 Natural: 100% Natural: 100%						
GAINS and VENTILATIC		Air exchange rate *		h-1	0.30	0.00	0.30	0.30	0.30	
	Heating system		n		0.50	1	1	0.50	0.50	
THERMAL SYSTEMS	Heating system		Autonomous: 100%							
	Daily operating					-				
	heating system		tн	h	14.00	0.00	14.00	14.00	14.00	
	Energy carrier		1	Natural Gas: 85%	; Electricity	/: 6%; Solid bio	mass: 3%; LPG:	2%; District heati	ng: 4%	
	Heating emission sub-system									
	Cooling system					-				
	Daily operating time of the cooling system *		t _c	h	-	-	-	-	-	
	Cooling emissio			I	1	-	1	1	1	
	DHW system ty		Autonomous, coupled with heating: 82%; Autonomous, detached from heating: 15%; Centralized, coupled with heating: 3%							
	DHW generator		-							
	* These values are derived from UNI EN ISO Standards									
		se values are derived from ONEEN ISO Statituarus								







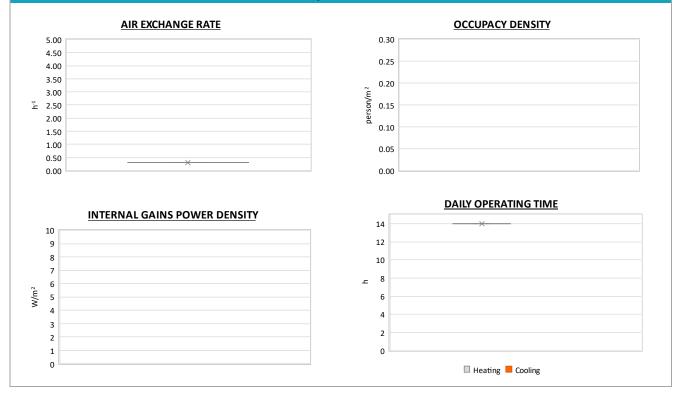
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Region: Piedmont				Archetype code:
Building category:	RES_SINGLE_2011E_PIE			
Period of construction:	Period of construction: > 2010			
Climatic zone:	E	Number of records:	2852	

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	27.3	329.3	11.6	23.4	26.0	
	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	10.9	58.0	5.4	7.8	10.6	
	Temperature of DHW	ϑw	°C	40.0	0.0	40.0	40.0	40.0	
	DHW system power	P _{W;gen}	kW	19.2	12.3	9.4	22.8	25.7	

Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE



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 – > 2010 - Zone E - Piedmont





