

Region: Building category:		Trentino Alto Adige Residential buildings-Single family						Archetype code:		
								RES_SINGLE_2011E_TN		
Period	of construction:	>2011								
Climatic zone: E		E			Number	of records:	1625			
Descrip	tion (the codes asso	ociated with wall	s and slabs re	fer to the struct	ures descri	bed in UNI/TR	11552:2014):	Data s	ources:	
	<u>ıl walls:</u> no data av a <u>bs</u> : no data availa							APE (100%)	
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
	Number of floo	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	174	137	100	126	184	
M	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-	
BUILDING GEOMETRY	Heated net volu	Heated net volume		m ³	766	861	413	530	768	
5	Compactness ra	itio	V _{H;n} A _{env} /V _{H;g}	m ⁻¹	0.65	0.17	0.56	0.66	0.75	
NIC	WWR – North orientation		WWR _N	-	-	-	-	-	-	
5	WWR – South orientation		WWRs	-	-	-	-	-	-	
	WWR – East ori	entation	WWRE	-	-	-	-	-	-	
		WWR – West orientation		_	-	-	-	_	-	
	Window to used ratio		WWR _W A _{wi} /A _{use}	-	-	-	-	-	-	
	Roof type					-		·		
PE		<i>U</i> -value of the roof		W/(m²·K)	-	-	-	-	-	
	External walls to	уре	U _{fl;up}		1	-		1	1	
	U-value of the v		U _{wl}	W/(m²·K)	-	-	-	-	-	
ELC	Slab on ground	floor type				-		1	1	
ENVELOPE		<i>J</i> -value of the floor		W/(m²·K)	-	-	-	-	-	
	Windows type				1	-		1	1	
	U-value of the v	vindows	Uw	W/(m ² ·K)	-	-	-	-	-	
	Shading system	type			1	-		1	1	
_		Occupancy density *		Oc person/m² UNI EN 16798-1 - Table A.19						
NOI.	Lighting power		W _L	W/m ²	UNI EN 16798-1 - A.8.3					
IS a	Equipment pow		WA	W/m ²	UNI EN 16798-1 - A.8.3					
GAINS an VENTILATI	Type of ventilat		Natural: 100%							
B R	Air exchange ra		n	h-1	0.30	-	0.30	0.30	0.30	
	Heating system			1		9%. Autonomo		1	0.00	
THERMAL SYSTEMS	Heating genera	Boiler (Unknown type): 34% Condensing boiler: 29% Air source beat nump: 23% Traditional boiler								
	Daily operating heating system		t _H	h	14	-	14	14	14	
	Energy carrier	Natural gas: 67%, Electricity: 20%, Solid biomass: 5%, LPG: 3%, District heating: 2%, Electricity free PV, wind turbines, hydraulic turbines: 2%, Gas Oil: 1%							Electricity fron	
	Heating emission sub-system		· · · · · · · · · · · · · · · · · · ·							
		Cooling system type		Unknow	n: 84%, Air	-cooled chiller:	14%, Water-co	oled chiller: 3%		
	Daily operating cooling system	*	t _C	h	-	-	-	-	-	
	Cooling emissio	n sub-system								
	DHW system ty	ре	Autonomous – coupled with heating: 50%, Autonomous - detached from heating: 30%, Unknown: 10%, Centralized – coupled with heating: 8%, district heating: 2%							
	DHW generator		Natural gas boiler: 59%, Electric heat pump: 27%, Unknown: 10%, Solar thermal: 3%, Electric boiler: 1%							
	inese values were	ere not available in the considered sources, and are thus derived from UNI EN 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 – 2011> – Zone E – Trentino Alto Adige





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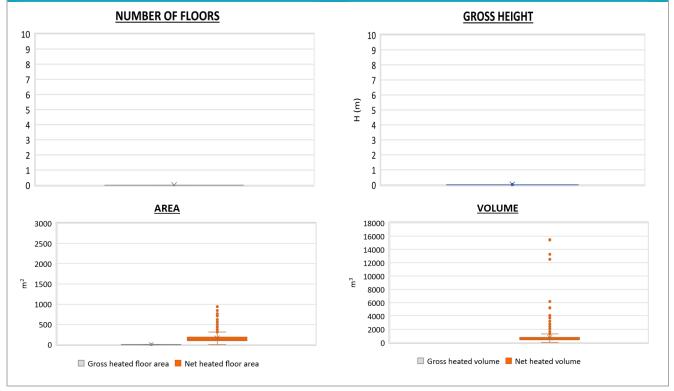
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ADDITIONAL DATA									
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)	
THERMAL SYSTEMS	Heating efficiency or COP	$\eta_{ m H;gen}{ m or}\ { m COP}_{ m H;gen}$	-	This value has to be retrieved from suitable datasheets					
	Total heating power	P _{H;gen}	kW	34	39	17	24	34	
	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	30	55	8	13	32	
	Temperature of DHW	ϑw	°C	40	-	40	40	40	
	DHW system power	P _{W;gen}	kW	34	39	17	24	34	

Additional data: GEOMETRY





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