

Region:		Liguria		Archetype code:							
Building category:		Residential bu	uildings – Si	RES_SINGLE_							
		2001-							_C_LIG		
Climatic zone: C		Number of records: 1149			1149						
Description:							Data sources:				
<u>External walls:</u> no data available <u>Roof slabs:</u> no data available							EPC databa	ses (100%)			
Data		Symbol	Unit of	Mean	Standard	Q1 (first	Q2 (Median	Q3 (third			
	Number of floor	-		measure	value	deviation	quartile)	value)	quartile)		
	Number of floors Gross height		n _f	-	-	-	-	-	-		
	Footprint area		Hg	m m ²	-	-	-	-	-		
	Heated gross floor area		A _{footprint}	m ²	-	-	-	-	-		
'RY	Heated gross noor area		A _{H;g} A _{H;n}	m ²			-	-	-		
MET			V _{H;g}	m ³	-	-	-	_			
BUILDING GEOMETRY	Heated gross volume		V _{H;g} V _{H;n}	m ³	-	-	_	-	-		
	Heated net volume Compactness ratio		A _{env} /V _{H;g}	m ⁻¹							
			WWR _N	-	0.79	0.43	0.57	0.75	0.94		
	WWR – North orientation		WWR _s	-	-		_				
В	WWR – South orientation		WWR _F	-	-		_		-		
	WWR – East orientation WWR – West orientation		WWR _W						-		
	Window to useful floor area										
	ratio		A _{wi} /A _{use}	-	0.11	0.04	0.09	0.10	0.13		
	Roof type		I I I I								
	<i>U</i> -value of the roof		U _{fl;up}	W/(m²·K)	0.72	0.61	0.30	0.48	0.89		
	External walls type					-					
DE	<i>U</i> -value of the wall		U _{wl}	W/(m²·K)	0.79	0.55	0.35	0.59	1.18		
ENVELOPE	Slab on ground floor type					-					
IN	U-value of the floor		U _{fl;lw}	W/(m²·K)	1.06	0.57	0.43	1.25	1.54		
_	Windows type					-					
	U-value of the windows		Uw	W/(m²·K)	2.93	1.16	1.93	2.84	3.75		
	Shading system type					-					
z	Occupancy density *		O _C person/m ² UNI EN 16798-1 - Table A.19								
IS and LATION	Lighting power density *		WL	W/m ²	UNI EN 16798-1 - A.8.3						
NS ILA	Equipment power density *		WA	W/m ²	UNI EN 16798-1 - A.8.3						
GAIN VENTII	Type of ventilation		Natural: 97%; Mechanical: 3%								
- >	Air exchange rat	e *	n	h-1	0.30	0.00	0.30	0.30	0.30		
	Heating system	type					utonomous: 4				
	Heating generat	or Unknown: 42%; Traditional boiler: 31%; Cor 11%; Fire									
THERMAL SYSTEMS	Daily operating the bating system 3		tн	h	10	0	10	10	10		
	Energy carrier		Unknown: 42%; Natural gas: 33%; Electricity: 11%; Electricity and natural gas: 7%; LPG: 4%; Electricity and solid biomass: 2%; Solid biomass: 1%								
	Heating emission	g emission sub-system		Radiators: 44%; Unknown: 40%; Radiant panels: 6%; Fan-coil: 5%; Air Ducts: 3%; Convectors: 2%							
	Cooling system t	ling system type		Unknown: 79%; Heat pump air-air: 16%; Heat pump air-water: 3%; Heat pump water- water: 1%; Other: 1%							
	Daily operating time of the cooling system *		tc	h	-	-	-	-	-		
	Cooling emission sub-system		-								
	DHW system type		-								
	DHW generator	unknown: 70%; Condensing boiler: 15%; Electric boiler: 7%; Natural gas boiler: 4%; Sola thermal: 3%; Electric heat pump: 1%							ler: 4%; Solar		
	* These values v	es were 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 houses – 2001- – Zone C – Italy





Residential buildings – Single family houses – 2001- – Zone C – Italy



Region:	Region: Liguria				
Building category:	RES_SINGLE_				
Period of construction:	2001C_LIG				
Climatic zone:	С	Number of records:	1149		

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	3.1	0.3	3.0	3.0	3.1
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m²	81.2	62.5	44.5	61.7	93.7
	Heated gross volume	V _{H;g}	m ³	309.7	244.9	168.5	237.4	357.0
	Heated net volume	V _{H;n}	m ³	221.5	171.0	121.1	170.6	251.6
THERMAL SYSTEMS	Heating efficiency or COP	efficiency or <i>COP</i> $\eta_{H;gen}$ or $\sigma_{COP_{H;gen}}$ - This value has to be retrieved from suitable datasheets					tasheets	
	Total heating power *	P _{H;gen}	kW	21.3	8.3	18.9	24.0	25.0
	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	-	-	-	-	-
	Temperature of DHW	θw	°C	-	-	-	-	-
	DHW system power *	P _{W;gen}	kW	19.9	9.8	15.0	24.0	25.0
	* These values refer to the apartment scale							

Additional data: GEOMETRY (the plots refer to the apartment scale) NUMBER OF FLOORS **GROSS HEIGHT** Ε AREA VOLUME m3 [~]E 100 X 🔲 Heated gross floor area 📕 Heated net floor area Heated gross volume Heated net volume

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NOTE: Sample size of the analysed data.

Compactness ratio: 1111; Window to useful floor area ratio: 216; U-value of the roof: 434; U-value of the wall: 1047; U-value of the floor: 113; U-value of the windows: 1149; Inter-storey height: 1135; Heated net floor area: 1135; Heated gross volume: 1111; Heated net volume: 1111; Total heating power: 472; DHW system power: 795; CO2 Emission: 1122; EP_H_nren: 1109; EP_W_nren: 1083; EP_GL_nren: 1129; EP_H_ren: 800; EP_W_ren: 607



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