

Region:		Liguria		Archetype code:							
Building category:		Residential bu	uildings – Si	RES_SINGLE_							
Period of construction: 2001-		2001-							D_LIG		
Climatic zone: D		Number of records: 2224			2224						
Descript	ion:						······································	Data se	ources:		
External	walls: no data av	ailable						EPC databa	ses (100%)		
Roof slabs: no data available											
Data		Symbol	Unit of	Mean	Standard	Q1 (first	Q2 (Median	Q3 (third			
				measure	value	deviation	quartile)	value)	quartile)		
	Number of floors		n _f	-	-	-	-	-	-		
	Gross height		Hg	m	-	-	-	-	-		
	Footprint area		A _{footprint}	m²	-	-	-	-	-		
≻	Heated gross floor area		A _{H;g}	m²	-	-	-	-	-		
ETR	Heated net floor area		A _{H;n}	m²	-	-	-	-	-		
ME	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-		
GEC	Heated net volume		V _{H;n}	m ³	-	-	-	-	-		
Compactness ra		tio	$A_{\rm env}/V_{\rm H;g}$	m ⁻¹	0.70	0.32	0.46	0.70	0.89		
WWR – North or		rientation	WWR _N	-	-	-	-	-	-		
Heated gloss i Heated net flo Heated gross v Heated net vol Compactness r WWR – North WWR – South		rientation	WWRs	-	-	-	-	-	-		
_	WWR – East orientation		WWR _E	-	-	-	-	-	-		
	WWR – West orientation		WWR _w	-	-	-	-	-	-		
	Window to useful floor area		A _{wi} /A _{use}	_	0.12	0.06	0.09	0.10	0.12		
	ratio		, with use		0.12	0.00	0.05	0.10	0.12		
	Roof type					-	1				
	U-value of the roof		U _{fl;up}	W/(m²·K)	0.68	0.62	0.26	0.39	0.86		
ENVELOPE	External walls type					-	1				
	U-value of the wall		U _{wl}	W/(m²·K)	0.79	0.61	0.31	0.56	1.14		
IVEI		Slab on ground floor type				-					
EN	U-value of the floor		U _{fl;lw}	W/(m²⋅K)	0.88	0.61	0.36	0.65	1.45		
	Windows type					-					
	U-value of the windows		Uw	W/(m²⋅K)	2.90	1.18	1.92	2.80	3.62		
	Shading system type		-								
N O g	Occupancy density *		O _C		Derson/m ² UNI EN 16798-1 - Table A.19 W/m ² UNI EN 167708.1 - A.8.2						
NS and ILATION	Lighting power density *		W _L	W/m ²	UNI EN 16798-1 - A.8.3						
GAINS VENTIL,		quipment power density *		WA W/m² UNI EN 16798-1 - A.8.3 Natural: 98%; Mechanical: 2% Natural: 98%; Mechanical: 2%							
	Type of ventilation Air exchange rate *			h-1	0.30	0.00	0.30		0.20		
	Heating system		n					0.30	0.30		
								host nump:			
	Heating generat	tor Unknown: 36%; Traditional boiler: 32%; Condensing boiler: 20%; Air-source heat pump: 10%; Fireplace: 2%									
THERMAL SYSTEMS	Daily operating heating system		t _H	h	12	0	12	12	12		
	Energy carrier		Natural gas: 38%; Unknown: 35%; Electricity and natural gas: 11%; Electricity: 11%; LPG: 3%; Electricity and solid biomass: 1%; Solid biomass: 1%								
	Heating emissio	n sub-system	Radiators: 49%; Unknown: 34%; Radiant panels: 8%; Fan-coil: 5%; Air Ducts: 3%; Convectors: 1%								
	Cooling system	type	De Unknown: 84%; Heat pump air-air: 11%; Heat pump air-w water: 1%				ater: 4%; Heat p	ump water-			
	Daily operating time of the cooling system *		tc	h	-	-	-	-	-		
	Cooling emission sub-system		-								
	DHW system typ	pe				-					
	DHW generator		Unknown 66%; Condensing boiler: 22%; Electric boiler: 5%; Solar thermal: 3%; Natural gas boiler: 3%; Electric heat pump: 1%						%; Natural gas		
	* These values we	ere not available i	n the conside	ered sources, and	d are thus o	derived from L	JNI EN Standard	s			



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 D – Italy



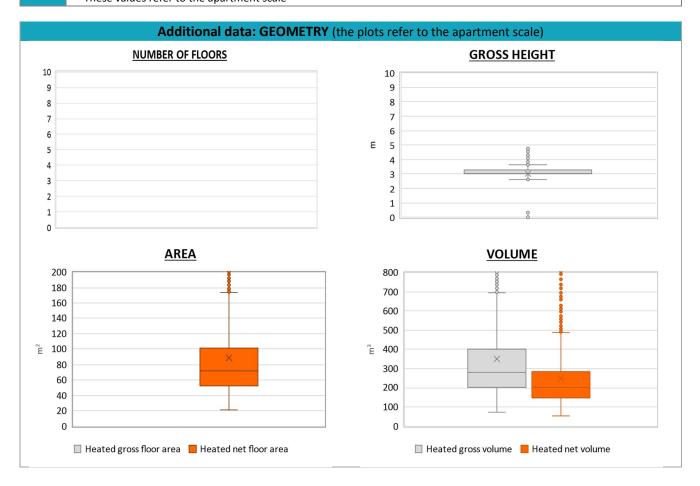


Residential buildings – Single family houses – 2001- – Zone D – Italy



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Period of construction: 2001-				2001D_LIG	
Climatic zone:	D	Number of records:	2224		

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	3.2	0.3	3.0	3.0	3.3
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m²	88.7	60.8	52.2	72.1	101.0
	Heated gross volume	V _{H;g}	m ³	349.3	260.0	203.0	282.2	400.1
0,0	Heated net volume	V _{H;n}	m ³	249.7	179.3	146.5	202.1	283.7
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or COP _{H;gen}	-	This value has to be retrieved from suitable datasheets				
	Total heating power *	P _{H;gen}	kW	22.0	7.4	22.3	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	$ heta_{W}$	°C	-	-	-	-	-
É	DHW system power *	P _{W;gen}	kW	20.5	9.2	20.3	24.0	24.8
	* These values refer to the apa	rtment scale						





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NOTE: Sample size of the analysed data.

Compactness ratio: 2130; Window to useful floor area ratio: 323; U-value of the roof: 826; U-value of the wall: 2017; U-value of the floor: 258; U-value of the windows: 2224; Inter-storey height: 2181; Heated net floor area: 2181; Heated gross volume: 2140; Heated net volume: 2140; Total heating power: 1036 ; DHW system power: 1506; CO2 Emission: 2179; EP_H_nren: 2194; EP_W_nren: 2110; EP_GL_nren: 2194; EP_H_ren: 1760; EP_W_ren: 1399



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