

Region:		Liguria						Archetype code:		
		Residential b	uildings – A	partments in m	RES_APPBLOCK_					
							1991-20	00_E_LIG		
Climati	c zone:	E	Number of records: 155							
Descript	tion:							Data s	ources:	
<u>External walls:</u> no data available <u>Roof slabs:</u> no data available								EPC databases (100%)		
	Data		Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Q2 (Median value)	Q3 (third quartile)	
	Number of floors		nf	-	-	-	-	-	-	
	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	-	-	-	-	-	
N N	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-	
9EO	Heated net volume		V _{H;n}	m ³	-	-	-	-	-	
ÿ	Compactness ratio		A _{env} /V _{H;g}	m ⁻¹	0.60	0.25	0.36	0.61	0.77	
BUILDING GEOMETRY	WWR – North orientation		WWR _N	-	-	-	-	-	-	
٦IJ	WWR – South orientation		WWRs	-	-	-	-	-	-	
	WWR – East orie	WWR – East orientation		-	-	-	-	-	-	
	WWR – West orientation		WWR _w	-	-	-	-	-	-	
	Window to usef	ul floor area	A /A		0.11	0.02	0.00	0.10	0.12	
	ratio		A _{wi} /A _{use}	-	0.11	0.02	0.09	0.10	0.13	
	Roof type					-				
	U-value of the ro	oof	U _{fl;up}	W/(m²·K)	1.21	0.65	0.64	1.02	1.81	
	External walls type					-				
ENVELOPE	U-value of the w	U-value of the wall		W/(m²·K)	1.18	0.71	0.61	1.09	1.50	
	Slab on ground floor type					-				
	U-value of the floor		U _{fl;lw}	W/(m²·K)	1.54	0.47	1.37	1.54	1.63	
	Windows type					-				
	U-value of the windows		Uw	W/(m²⋅K)	3.77	1.18	2.90	3.65	4.71	
	Shading system type		-							
z	Occupancy dens	sity *	Oc	person/m ²	UNI EN 16798-1 - Table A.19					
and TION	Lighting power of	ghting power density *		W/m ²	UNI EN 16798-1 - A.8.3					
NS	Equipment pow	oment power density *		W/m ²	W/m ² UNI EN 16798-1 - A.8.3					
	Type of ventilati	Type of ventilation		Natural: 99%; Mechanical: 1%						
~ >	Air exchange rat	:e *	n	h-1	0.30	0.00	0.30	0.30	0.30	
THERMAL SYSTEMS	Heating system	type		Unkı	nown: 89%	%; Autonomo	us: 10%; Cent	ralized: 1%		
	Heating generat	or	Traditional boiler: 51%; Unknown: 35%; Condensing boiler: 10%; Fireplace: 2%; Electric heating: 2%							
	Daily operating the heating system		t _H	h	14	0	14	14	14	
	Energy carrier		Unknown: 35%; Natural gas: 33%; Electricity and natural gas: 23%; LPG: 5%; Electricity and solid biomass: 2%; Electricity: 2%							
	Heating emission	n sub-system	Radiators: 59%; Unknown: 35%; Radiant panels: 3%; Fan-coil: 1%; Air Ducts: 1%; Air Heater:1%							
	Cooling system type		Unknown	: 97%; Heat pu	mp air-air	։ 1%; Heat pւ	ump air-water	: 1%; Heat pum	p water-air: 1%	
	Daily operating to cooling system *	k	t _c	h	-	-	-	-	-	
	Cooling emission sub-system		-							
	DHW system typ	be	-							
	DHW generator		Unknown: 81%; Condensing boiler: 8%; Electric boiler: 5%; Electric heat pump: 3%; Natural gas boiler: 2%; Solar thermal: 1%							
	* These values v	vere not availat	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 – Apartment blocks – 1991-2000 – Zone E – Italy



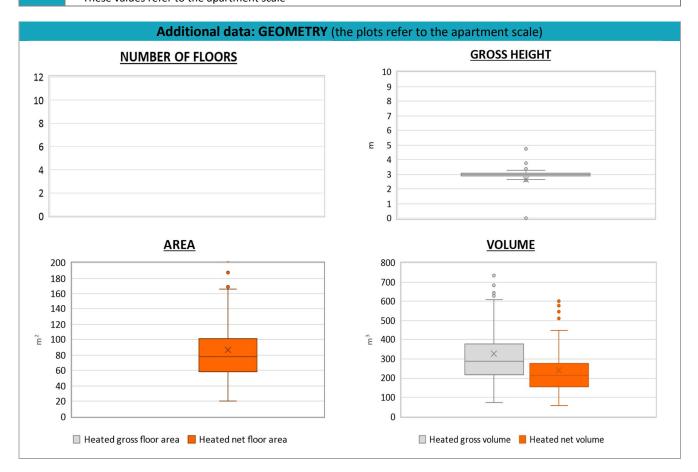


Residential buildings – Apartment blocks – 1991-2000 – Zone E – Italy



Region:	Liguria	Archetype code:		
Building category:	Residential buildings – A	RES_APPBLOCK_		
Period of construction:	1991-2000	1991-2000_E_LIG		
Climatic zone:	E	Number of records:	155	

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	3.0	0.2	3.0	3.0	3.1
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m²	86.3	46.0	58.1	78.3	101.6
	Heated gross volume	V _{H;g}	m ³	326.3	205.4	217.3	286.6	377.0
0.0	Heated net volume	V _{H;n}	m ³	240.6	164.1	155.4	213.4	275.5
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	24.6	4.2	23.5	24.0	26.0
	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	22.2	8.3	23.3	24.0	25.8
	* These values refer to the apa	rtment scale						



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NOTE: Sample size of the analysed data.

Compactness ratio: 136; Window to useful floor area ratio: 15; U-value of the roof: 45; U-value of the wall: 129; U-value of the floor 11; U-value of the windows: 155; Inter-storey height: 136; Heated net floor area: 136; Heated gross volume: 136; Heated net volume: 136; Total heating power: 82; DHW system power: 113; CO2 Emission: 151; EP_H_nren: 153; EP_W_nren: 136; EP_GL_nren: 146; EP_H_ren: 118; EP_W_ren: 84

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