

Region:		Liguria						Archetype code:		
		Residential b	buildings – Apartments in multi-family block					RES_APPBLOCK_ 2001F_LIG		
		2001-								
Climatic zone: F		Number of records: 13								
Descript								Data so	urces.	
External walls: no data available								EPC databases (100%)		
	<u>bs:</u> no data availa								(,	
Data			Symbol	Unit of	Mean	Standard	Q1 (first	Q2 (Median	Q3 (third	
	Data		Symbol	measure	value	deviation	quartile)	value)	quartile)	
	Number of flooi	Number of floors		-	-	-	-	-	-	
	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	-	-	-	-	-	
W	Heated gross volume		V _{H;g}	m³	-	-	-	-	-	
BUILDING GEOMETRY	Heated net volume		V _{H;n}	m³	-	-	-	-	-	
DN	Compactness ratio		A _{env} /V _{H;g}	m ⁻¹	0.74	0.29	0.50	0.75	0.92	
Ē	WWR – North o	WWR – North orientation		-	-	-	-	-	-	
III	WWR – South orientation		WWRs	-	-	-	-	-	-	
	WWR – East ori	WWR – East orientation		-	-	-	-	-	-	
	WWR – West or	WWR – West orientation		-	-	-	-	-	-	
	Window to useful floor area ratio		A _{wi} /A _{use}	-	-	-	-	-	-	
	Roof type							<u> </u>		
	<i>U</i> -value of the r	oof	U _{fl;up}	W/(m²·K)	0.99	0.76	0.33	0.69	1.89	
	External walls ty		- 11,00	, (0.55	-	0.55	0.05	1.05	
Ы	U-value of the wall		U _{wl}	W/(m²·K)	0.69	0.38	0.29	0.78	0.93	
ENVELOPE	Slab on ground floor type			,,,,,		-				
N	<i>U</i> -value of the floor		U _{fl;lw}	W/(m²·K)	-	-	-	-	-	
-	Windows type					-				
	<i>U</i> -value of the windows		Uw	W/(m²⋅K)	3.30	1.20	2.30	3.27	4.50	
	Shading system type									
z	Occupancy density *		Oc	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 .	Equipment pow	Equipment power density *		WA W/m² UNI EN 16798-1 - A.8.3						
gains Ventil	Type of ventilation		Natural: 100%							
~ 2	Air exchange rat	te *	n	h⁻¹	0.30	0.00	0.30	0.30	0.30	
	Heating system	type				-				
	Heating generat	tor Condensing boiler: 38%; Traditional boiler: 31%; unknown: 31%							6	
THERMAL SYSTEMS	Daily operating heating system		ne of the No limitations							
	Energy carrier		Natural gas: 54%; Unknown: 31%; Electricity and natural gas: 15%							
	Heating emission sub-system		Radiators: 61%; Unknown: 31%; Radiant panels: 8%							
	Cooling system							-		
	Daily operating time of the cooling system *		tc	h	-	-	-	-	-	
	Cooling emission sub-system		I I I							
	DHW system type -									
	DHW generator Unknown: 54%; Condensing boiler: 31%; Electric boiler: 15%									
	-		ble in the considered sources, and are thus derived from UNI EN Standards							

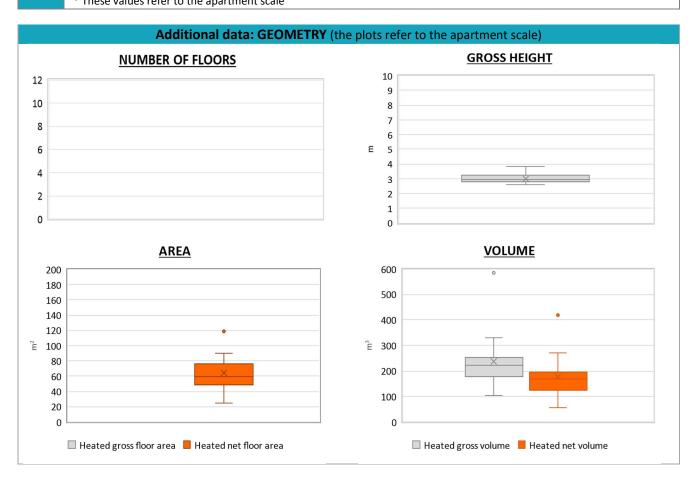






Region:	egion: Liguria				
Building category:	Residential buildings – A	RES_APPBLOCK_			
Period of construction: 2001-				2001F_LIG	
Climatic zone:	F	Number of records:	13		

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	0.3	2.8	3.0	3.0
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m²	64.2	23.9	48.0	59.0	76.3
	Heated gross volume	V _{H;g}	m ³	238.4	119.1	177.3	223.0	253.6
0.0	Heated net volume	V _{H;n}	m ³	178.8	89.6	124.0	169.6	196.8
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or COP _{H;gen}	-	This value has to be retrieved from suitable datasheets			tasheets	
	Total heating power *	P _{H;gen}	kW	21.3	6.9	16.5	21.0	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	θw	°C	-	-	-	-	-
	DHW system power *	P _{W;gen}	kW	15.3	9.7	3.9	18.0	24.0
	* These values refer to the apartment scale							



Residential buildings – Apartment blocks – 2001- – Zone F – Italy





NOTE: Sample size of the analysed data.

Compactness ratio: 13; U-value of the roof: 8; U-value of the wall: 12; U-value of the windows: 13; Inter-storey height: 13; Heated net floor area: 13; Heated gross volume: 13; Heated net volume: 13; Total heating power: 6; DHW system power: 8; CO2 Emission: 13; EP_H_nren: 11; EP_W_nren: 13; EP_GL_nren: 13; EP_H_ren: 5; EP_W_ren: 7