

Region:		Trentino						Archety	Archetype code:	
Building category: Resid		Residential	ial multifamily buildings						RES_APPBLOCK_	
Period of construction: 1941-1950				1941-19	50_F_TN					
Climatic zone: F		Number of records: 826								
Description (the codes associated with wa		alls and slabs	refer to the stru				Data s	ources:		
-	walls: no data av								ases (100%)	
	bs: no data availa									
Data		Symbol	Unit of	Mean	Standard	Q1 (first	Median	Q3 (third		
	Data		Symbol	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	-	-	-	-	-	
TRV	Heated net floor area		A _{H;n}	m²	415	95	329	414	510	
ME	Heated gross volume		V _{H;g}	m ³	-	-	-	-	-	
GEC	Heated net volume		V _{H;n}	m ³	1717	877	1342	1452	1865	
BUILDING GEOMETRY	Compactness ratio		A _{env} /V _{H;g}	m ⁻¹	0.55	0.12	0.46	0.59	0.66	
	WWR – North orientation		WWR _N	-	-	-	-	-	-	
	WWR – South c	WWR – South orientation		-	-	-	-	-	-	
	WWR – East orientation		WWR _E	-	-	-	-	-	-	
	WWR – West o	rientation	WWR _w	-	-	-	-	-	-	
	Window to use	ful floor	A _{wi} /A _{use}	-	-	-	_	-	-	
	area ratio		· · · · · · · · · · · · · · · · · · ·							
	Roof type					-				
	U-value of the r		U _{fl;up}	W/(m²⋅K)	-	-	-	-	-	
ų	External walls t					-				
ENVELOPE	U-value of the v		U _{wl}	W/(m²·K)	-	-	-	-	-	
IVE	Slab on ground) A (// 2 //)		-				
Ē	U-value of the f	100r	U _{fl;lw}	W/(m²⋅K)	-	-	-	-	-	
	Windows type			W/(m²·K)	-	-			_	
	U-value of the windows		Uw	VV/(III-·K)	-	-	-	-	-	
	Shading system type		O _C							
noi NOi	Occupancy density * Lighting power density *		WL	person/m ² W/m ²	UNI EN 16798-1 - Table A.19 UNI EN 16798-1 - A.8.3					
			VVL				INI LIN 10730-1	- A.8.5		
GAINS a ENTILAT	*	Equipment power density *		WA W/m² UNI EN 16798-1 - A.8.3						
GAINS a VENTILAT	Type of ventilation		Natural: 100%							
>	Air exchange rate *		n	h-1	0.3	-	0.3	0.3	0.3	
	Heating system type		Autonomous: 41%; Unknown: 38%; Centralized: 21%							
	Heating genera	leating generator		Boiler (unknown type): 94%; Fireplace: 5%; Air-source heat pump:1%						
	Daily operating		<i>t</i>	h			No limitatio	'n		
	heating system *									
THERMAL SYSTEMS	Energy carrier			Electricity: 60%; District heating: 20%; Electricity from PV, wind turbines, hydraulic turbines: 20%						
	Heating emission sub-		-							
	system		Unknown: 100%							
	Cooling system type Daily operating time of the		UTIKNOWN: 100%							
	cooling system *		t _C h No limitation							
	Cooling emission sub-									
	system		-							
	DHW system ty	ре	Autonomous – coupled with heating: 38%; Unknown: 25%; Autonomous - detached from heating: 19%;							
	DHW generator	-	Centralized – coupled with heating: 16%; District heating: 2% Natural gas boiler: 62%; Unknown: 16%; Electric Heat Pump: 16%; Electric boiler: 6%							
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									
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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	-	-	-	-	-
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-
	Heated net floor area	A _{H;n}	m²	93	42	65	80	107
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-
	Heated net volume	V _{H;n}	m ³	367	168	254	313	421
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or COP _{H;gen}	- I I I I I I I I I I I I I I I I I I I					tasheets
	Total heating power *	P _{H;gen}	kW	29	28	22	25	30
	Cooling efficiency or EER	<i>EER</i> $\eta_{C,gen}$ or <i>PERC, gen</i> - This value has to be retrieved from suitable data				tasheets		
	Total cooling power *	P _{C;gen}	kW	7	6	3	5	11
	Temperature of DHW	ϑ _w	°C	40	-	40	40	40
	DHW system power *	P _{W;gen}	kW	31	184	16	24	29

Additional data: GEOMETRY (the plots refer to the apartment scale) NUMBER OF FLOORS GROSS HEIGHT Ε <u>AREA</u> VOLUME ĩ \mathbf{a}_{2}^{2} Gross heated volume <a>Figure Net heated volume 🔲 Gross heated floor area 📕 Net heated floor area

Residential multifamily buildings – 1931/1940 – Zone F – Trentino



