Region:	Trentino Alto Adige	Archetype code:
Building category:	Residential buildings-Temporary	RES_TEMP_1981-1990_E_TN
Period of construction:	1981-1990	
Climatic zone:	E	Number of records: 16	

Description (the codes associated with walls and slabs refer to the structures described in UNI/TR 11552:2014):

Data sources: APE (100%)

External walls: no data available

Roof slabs: no data available

	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
BUILDING GEOMETRY	Number of floors	n_f	-	-	-	-	-	-
	Gross height	H_g	m	-	-	-	-	-
	Footprint area	$A_{footprint}$	m²	-	-	-	-	-
	Heated gross floor area	$A_{H;g}$	m²	-	-	-	-	-
	Heated net floor area	$A_{H;n}$	m²	1475	1074	626	1302	2379
	Heated gross volume	$V_{H;g}$	m³	-	-	-	-	-
	Heated net volume	$V_{H;n}$	m³	5501	3784	2239	5229	8657
	Compactness ratio	$A_{env}/V_{H;g}$	m⁻¹	0.52	0.18	0.40	0.49	0.55
	WWR – North orientation	WWR_N	-	-	-	-	-	-
	WWR – South orientation	WWR_S	-	-	-	-	-	-
	WWR – East orientation	WWR_E	-	-	-	-	-	-
	WWR – West orientation	WWR_W	-	-	-	-	-	-
	Window to useful floor area ratio	A_{wi}/A_{use}	-	-	-	-	-	-
ENVELOPE	Roof type		-					
	U-value of the roof	$U_{fl;up}$	W/(m²·K)	-	-	-	-	-
	External walls type		-					
	U-value of the wall	U_{wl}	W/(m²·K)	-	-	-	-	-
	Slab on ground floor type		-					
	U-value of the floor	$U_{fl;lw}$	W/(m²·K)	-	-	-	-	-
	Windows type		-					
	U-value of the windows	U_W	W/(m²·K)	-	-	-	-	-
	Shading system type		-					
GAINS and VENTILATION	Occupancy density *	O_C	person/m²	UNI EN 16798-1 - Table A.19				
	Lighting power density *	W_L	W/m²	UNI EN 16798-1 - A.8.3				
	Equipment power density *	W_A	W/m²	UNI EN 16798-1 - A.8.3				
	Type of ventilation		Natural: 100%					
	Air exchange rate *	n	h⁻¹	0.30	-	0.30	0.30	0.30
THERMAL SYSTEMS	Heating system type		Unknown: 56%, Centralized: 31%, Autonomous: 13%					
	Heating generator		Boiler (Unknown type): 37%, Traditional boiler: 19%; Air source heat pump: 19%, Condensing boiler: 13%, DHC: 12%					
	Daily operating time of the heating system *	t_H	h	14	-	14	14	14
	Energy carrier		Natural gas: 62%, Gas Oil: 15%, District heating: 8%, Solid biomass: 8%, LPG: 7%					
	Heating emission sub-system		-					
	Cooling system type		Unknown: 77%, Air-cooled chiller: 15%, Water-cooled chiller: 8%					
	Daily operating time of the cooling system *	t_C	h	-	-	-	-	-
	Cooling emission sub-system		-					
	DHW system type		Autonomous – coupled with heating: 31%, Centralized – coupled with heating: 31%, District heating: 19%, Unknown: 19%					
	DHW generator		Natural gas boiler: 77%, Unknown: 23%					

* These values were not available in the considered sources, and are thus derived from UNI EN Standards

Region:	Trentino Alto Adige		Archetype code:
Building category:	Residential buildings-Temporary		RES_TEMP_1981-1990_E_TN
Period of construction:	1981-1990		
Climatic zone:	E	Number of records: 1196	

Numerical variables – GEOMETRY

COMPACTNESS RATIO

WINDOWS TO WALL RATIO

☐ WWR North ☐ WWR South ☐ WWR East ☐ WWR West ☐ WNFA
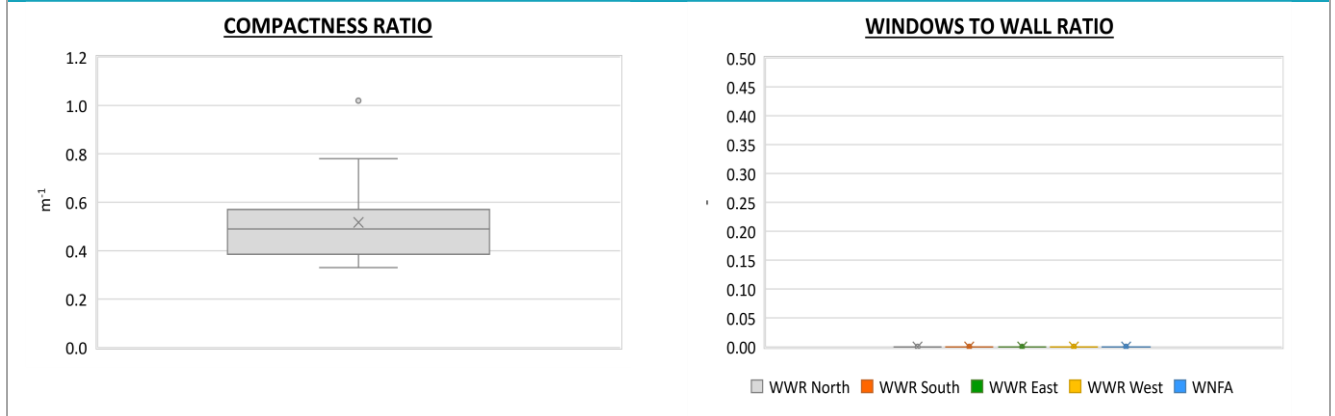
Numerical variables – ENVELOPE

OPAQUE BUILDING COMPONENTS U-VALUE

☐ External Walls ☐ Slab on Ground Floor ☐ Roof

WINDOWS U-VALUE
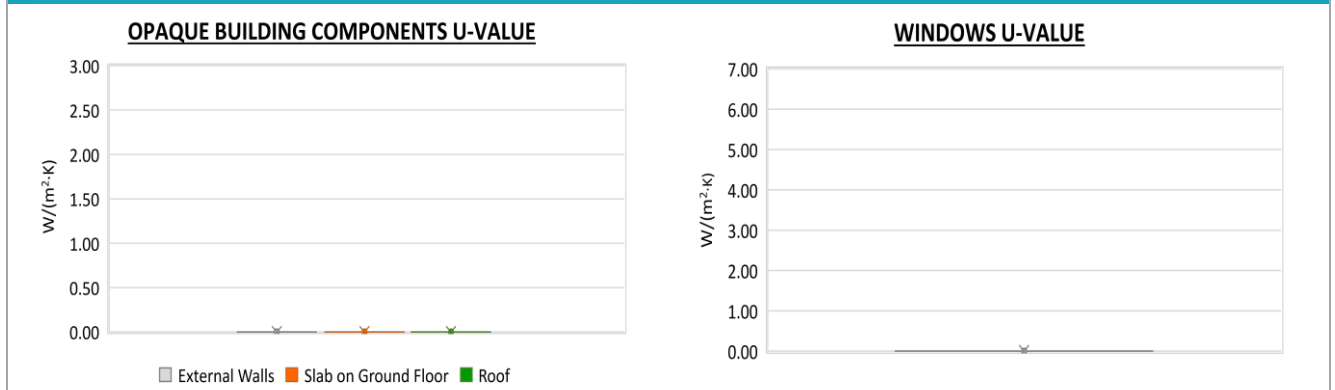
Numerical variables – GAINS, VENTILATION and SYSTEMS USAGE

AIR EXCHANGE RATE

OCCUPANCY DENSITY

INTERNAL GAINS POWER DENSITY

DAILY OPERATING TIME

☐ Heating ☐ Cooling

Residential buildings--Temporary – 1981-1990 – Zone E – Trentino Alto Adige

Region:	Trentino Alto Adige		Archetype code:
Building category:	Residential buildings-Temporary		RES_TEMP_1981-1990_E_TN
Period of construction:	1981-1990		
Climatic zone:	E	Number of records:	16

ADDITIONAL DATA

	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)
THERMAL SYSTEMS	Heating efficiency or *COP*	$\eta_{H;gen}$ or $COP_{H;gen}$	-	This value has to be retrieved from suitable datasheets				
	Total heating power	$P_{H;gen}$	kW	163	148	41	103	218
	Cooling efficiency or *EER*	$\eta_{C;gen}$ or $EER_{C;gen}$	-	This value has to be retrieved from suitable datasheets				
	Total cooling power	$P_{C;gen}$	kW	74	67	7	62	139
	Temperature of DHW	ϑ_W	°C	40	-	40	40	40
	DHW system power	$P_{W;gen}$	kW	163	148	41	103	218

Additional data: GEOMETRY

NUMBER OF FLOORS

GROSS HEIGHT

AREA

☐ Gross heated floor area ■ Net heated floor area

VOLUME

☐ Gross heated volume ■ Net heated volume

Region:	Trentino Alto Adige		Archetype code:
Building category:	Residential buildings-Temporary		RES_TEMP_1981-1990_E_TN
Period of construction:	1981-1990		
Climatic zone:	E	Number of records: 16	

Additional data: other numerical variables that are not included in the archetype
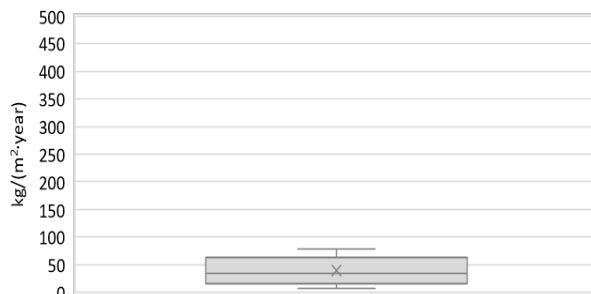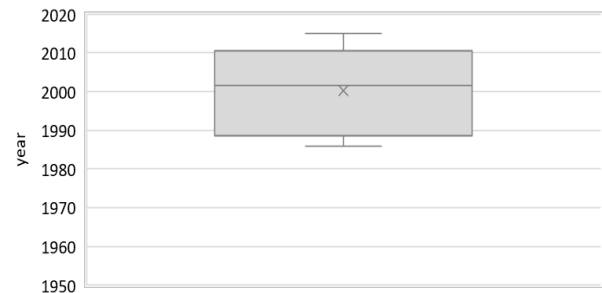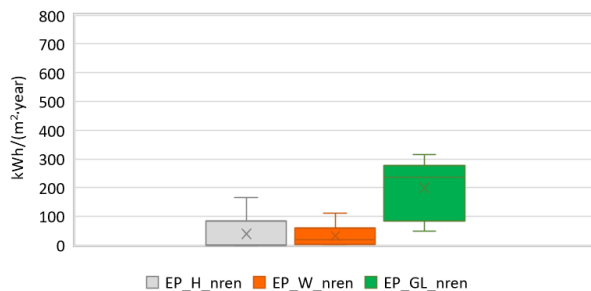
DHW SUPPLY TEMPERATURE

SYSTEM POWER

Heating ■ DHW ■ Cooling
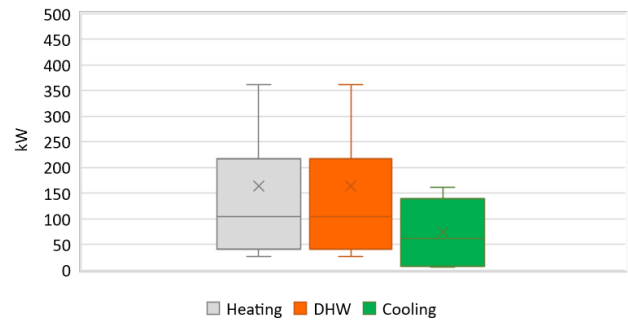
CO₂ EMISSION

HEATING SYSTEM INSTALLATION YEAR

NON-RENEWABLE PRIMARY ENERGY USE

■ EP_H_nren ■ EP_W_nren ■ EP_GL_nren

RENEWABLE PRIMARY ENERGY USE

■ EP_H_ren ■ EP_W_ren