

| Region: Liguria | | | | Archetype code: | | | | | | |
|------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------|--------------------|----------------------------------|------------------------------|------------------------|---------|
| Building category:Residential bit19811981-1990 | | uildings – Apartments in multi-family block | | | | | RES_APPBLOCK_ 1981-1990_E_LIG | | | |
| | | | | | | | | | | Climati |
| | ion: <u>walls:</u> no data ava <u>bs: n</u> o data availat | | | | | | | Data so EPC databa | | |
| | Data | | Symbol | Unit of measure | Mean value | Standard deviation | Q1 (first quartile) | Q2 (Median value) | Q3 (third quartile) | |
| | Number of floors | 5 | nf | - | - | - | - | - | - | |
| | Gross height | | Hg | m | - | - | - | - | - | |
| | Footprint area | | A _{footprint} | m² | - | - | - | - | - | |
| 2 | Heated gross floor area | | A _{H;g} | m² | - | - | - | - | - | |
| TRY | Heated net floor area | | A _{H;n} | m² | - | - | - | - | - | |
| Ψ | Heated gross volume | | V _{H;g} | m ³ | - | - | - | - | - | |
| EO EO | Heated net volume | | V _{H;n} | m ³ | - | _ | - | - | - | |
| 5 | Compactness rat | - | A _{env} /V _{H;g} | m ⁻¹ | 0.63 | 0.26 | 0.40 | 0.66 | 0.77 | |
| Building geometry | WWR – North or | | WWR _N | - | - | - | - | - | - | |
| E . | | | WWRs | _ | - | | _ | - | | |
| B | WWR – South orientation | | WWR _F | - | _ | - | | | | |
| | WWR – East orientation WWR – West orientation | | WWR _W | - | - | - | - | - | - | |
| | Window to usefu | | A _{wi} /A _{use} | - | 0.13 | 0.06 | 0.09 | 0.10 | 0.14 | |
| | Roof type | | | 1 | 1 | _ | I | 11 | | |
| | U-value of the ro | of | U _{fl;up} | W/(m²·K) | 1.19 | 0.69 | 0.54 | 1.32 | 1.81 | |
| | External walls ty | | Ufi;up | VV/ (III K) | 1.19 | 0.09 | 0.54 | 1.52 | 1.01 | |
| ų | U-value of the w | | U _{wl} | W/(m²·K) | 1.15 | 0.45 | 0.90 | 1.18 | 1.32 | |
| Ō | Slab on ground f | | Uwi | VV/(III 'K) | 1.15 | 0.45 | 0.90 | 1.10 | 1.52 | |
| ENVELOPE | | | U _{fl;lw} | W/(m²·K) | 1.38 | 0.48 | 1.05 | 1.42 | 1.69 | |
| Ē | | U-value of the floor | | VV/(III-'K) | 1.38 | 0.48 | 1.05 | 1.42 | 1.09 | |
| | | Windows type | | 14/// | 4.4.0 | - | 2.24 | 4.25 | F 00 | |
| | | U-value of the windows | | W/(m²⋅K) | 4.18 | 1.13 | 3.24 | 4.35 | 5.06 | |
| | Shading system type | | - | | | | | | | |
| and TION | Occupancy dens | • | 0 _C | person/m ² | UNI EN 16798-1 - Table A.19 | | | | | |
| and ATIOI | | Lighting power density * | | W/m ² | UNI EN 16798-1 - A.8.3 | | | | | |
| | | Equipment power density * | | WA W/m² UNI EN 16798-1 - A.8.3 | | | | | | |
| GAINS VENTILA | Type of ventilation | | | 1 | 1 | Natural: | | | | |
| | Air exchange rate | e * | n | h-1 | 0.30 | 0.00 | 0.30 | 0.30 | 0.30 | |
| THERMAL SYSTEMS | Heating system t Heating generate | | Unknown: 92%; Autonomous: 7%; Centralized: 1% Traditional boiler: 46%; Unknown: 45%; Condensing boiler: 7%; Fireplace: 1%; Air-sourc heat pump: 1% | | | | | | | |
| | Daily operating t heating system * | | t _H | h | 14 | 0 | 14 | 14 | 14 | |
| | Energy carrier | | Unknown: 44%; Natural gas: 32%; Electricity and natural gas: 17%; LPG: 3%; Electricity and solid biomass: 1%; Gas Oil: 1%; Electricity: 1%; Electricity and gas oil 1% | | | | | | | |
| | Heating emissior | n sub-system | Radiators: 54%; Unknown: 43%; Air Ducts: 1%; Radiant panels: 1%; Fan-coil: 1% | | | | | | | |
| | Cooling system t | уре | Unknown: 99%; Heat pump air-air: 1% | | | | | | | |
| | Daily operating t cooling system * | | t _c | h | - | - | - | - | - | |
| | Cooling emission sub-system - | | | | | | | | | |
| | DHW system typ | e | - | | | | | | | |
| | DHW generator | | Unknown: 80%; Condensing boiler: 9%; Electric boiler: 8%; Electric heat pump: 2%; Natura gas boiler: 1% | | | | | | | |

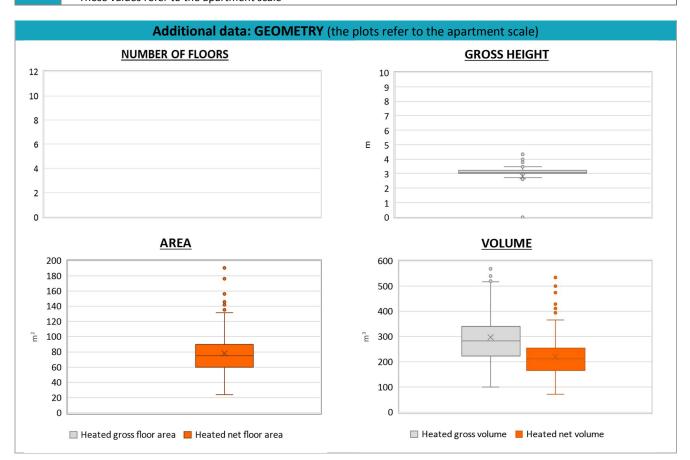






| Region: | Liguria | Archetype code: | | |
|--------------------|---------------------------|--------------------|-----|--|
| Building category: | Residential buildings – A | RES_APPBLOCK_ | | |
| 1981 | 1981-1990 | 1981-1990_E_LIG | | |
| Climatic zone: | E | Number of records: | 269 | |

| 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 | 3.1 | 0.2 | 3.0 | 3.1 | 3.2 |
| | Heated gross floor area | A _{H;g} | m² | | | | | |
| | Heated net floor area | A _{H;n} | m² | 78.4 | 28.2 | 60.4 | 75.3 | 90.1 |
| | Heated gross volume | V _{H;g} | m³ | 298.6 | 111.0 | 222.5 | 284.5 | 340.7 |
| 9 U | Heated net volume | V _{H;n} | m ³ | 219.9 | 78.6 | 167.4 | 213.2 | 254.3 |
| S | Heating efficiency or COP | η _{H;gen} or COP _{H;gen} | - | This value has to be retrieved from suitable datasheets | | | | |
| THERMAL SYSTEMS | Total heating power * | P _{H;gen} | kW | 24.8 | 6.1 | 24.0 | 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 | θ_{W} | °C | - | - | - | - | - |
| Ę | DHW system power * | P _{W;gen} | kW | 21.3 | 8.5 | 22.8 | 24.0 | 24.3 |
| | * These values refer to the apartment scale | | | | | | | |







NOTE: Sample size of the analysed data.

Compactness ratio: 242; Window to useful floor area ratio: 22; U-value of the roof: 46; U-value of the wall: 230; U-value of the floor: 23; U-value of the windows: 269; Inter-storey height: 242; Heated net floor area: 242; Heated gross volume: 242; Heated net volume: 242; Total heating power: 111; DHW system power: 201; CO2 Emission: 264; EP_H_nren: 264; EP_W_nren: 247; EP_GL_nren: 269; EP_H_ren: 187; EP_W_ren: 134