

| Region: Piedmont | | | | | | | Archetype code: | | | |
|---|---|------------------------|---|--|---|--------------------|------------------------|-------------------|----------------------|--|
| Building category: Residential building category: | | uildings - Ap | artments (in n | nultifamily | / blocks) | | RES_APPBLOCK_1981- | | | |
| e <mark>riod o</mark> | of construction: | 1981-1990 | | | | | | 1990 | _F_PIE | |
| imatic | zone: | F | Number of records: 2101 | | | | | | | |
| escript | t ion (the codes asso | ciated with walls | s and slabs re | fer to the struct | ures descri | bed in UNI/TR | 11552:2014): | Datas | sources: | |
| | walls: hollow brin bs: reinforced cor | | | • | MCV02). | | | EPC datab | oases (100%) | |
| | Data | | Symbol | Unit of measure | Mean value | Standard deviation | Q1 (first quartile) | Median value | Q3 (thir quartile | |
| | Number of floor | rs | nf | - | - | - | - | - | - | |
| | 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 | - | - | - | - | - | |
| Building geometry | Heated gross volume | | V _{H;g} | m ³ | - | - | - | - | - | |
| BEC | Heated net volume | | V _{H;n} | m ³ | - | - | - | - | - | |
| 5 | Compactness ratio | | A _{env} /V _{H;g} | m-1 | 0.64 | 0.35 | 0.44 | 0.64 | 0.77 | |
| | WWR – North orientation | | WWR _N | - | - | - | - | - | - | |
| 5 | WWR – South orientation | | WWRs | - | - | - | - | - | - | |
| - | WWR – East orientation | | WWRE | - | - | - | - | - | - | |
| | WWR – West or | | WWRw | - | - | - | - | - | - | |
| | Window to useful floor area | | A _{wi} /A _{use} | - | 0.17 | 0.07 | 0.13 | 0.17 | 0.20 | |
| | Roof type | | | | | - | | | | |
| | U-value of the r | oof | U _{fl;up} | W/(m²·K) | - | - | - | - | - | |
| | External walls ty | /pe | 1 | | 78%; Solid I | Brick masonry: | 18%; Unknown | : 3%; Prefabricat | ed panels: 1% | |
| Ы | U-value of the w | - | U _{wl} | W/(m ² ·K) | - | - | - | - | - | |
| ENVELOPE | Slab on ground | floor type | | | 1 | - | 1 | 1 | | |
| Ž | U-value of the f | | U _{fl;lw} | W/(m²⋅K) | - | - | - | - | - | |
| ш | Windows type | | - 11,199 | | 1 | - | 1 | 1 | | |
| | <i>U</i> -value of the w | vindows | Uw | W/(m²·K) | 2.87 | 0.98 | 2.27 | 2.83 | 3.18 | |
| | Shading system | | 0 00 | ••• | 2.07 | - | 2.27 | 2.00 | 5.10 | |
| | | | Oc | O _C person/m ² UNI EN 16798-1 - Table A.19 | | | | | | |
| NO | Occupancy density * Lighting power density * | | W _L | W/m ² | UNI EN 16798-1 - Table A.19 UNI EN 16798-1 - A.8.3 | | | | | |
| AT | | •••• | | W/m ² | | | | | | |
| Ē | Type of ventilat | ipment power density * | | W _A W/m ² UNI EN 16798-1 - A.8.3 Natural: 100% | | | | | | |
| GAINS an VENTILATIC | Air exchange rat | | n | h-1 | 0.30 | 0.00 | 0.30 | 0.30 | 0.30 | |
| | | | | 11 | | | Centralized: 419 | | 0.30 | |
| THERMAL SYSTEMS | Heating system | | | | Auto | 1011003. 39%; | Centralizeu. 41 | /0 | | |
| | Heating generat | | | | | - | | | | |
| | heating system | | t _H | h | | | No limita | ition | | |
| | Energy carrier | | Natural Gas: 67%; Gas Oil: 11%; District heating: 8%; LPG: 6%; Solid biomass: 6%; Electricity: 2% | | | | | | | |
| | Heating emissio | n sub-system | - | | | | | | | |
| | Cooling system | | | | | | | | | |
| | Daily operating | | | | | - | | | | |
| | cooling system ' | | t _C | h | - | - | - | - | - | |
| | Cooling emissio | | | | 1 | - | 1 | 1 | 1 | |
| | DHW system typ | | Autonomous, coupled with heating: 44%; Autonomous, detached from heating: 40%; Centralized, coupled with heating: 14%; Centralized, detached from heating: 2% | | | | | | | |
| | | | - | | | | | | | |







| Region: | egion: Piedmont | | | | |
|-------------------------|---------------------------|--------------------|------|------------|--|
| Building category: | Residential buildings - A | RES_APPBLOCK_1981- | | | |
| Period of construction: | truction: 1981-1990 | | | 1990_F_PIE | |
| Climatic zone: | F | Number of records: | 2101 | | |

| 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 | 74.4 | 51.5 | 41.6 | 63.7 | 91.1 |
| | Heated gross volume | V _{H;g} | m ³ | 274.0 | 193.9 | 151.8 | 233.5 | 336.8 |
| 9 U | Heated net volume | V _{H;n} | m ³ | - | - | - | - | - |
| 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 | 22.8 | 7.9 | 22.0 | 24.0 | 27.3 |
| | Cooling efficiency or EER | η _{C;gen} or EER _{C;gen} | - | This value has to be retrieved from suitable datasheets | | | tasheets | |
| | Total cooling power * | P _{C;gen} | kW | 5.6 | 3.5 | 3.5 | 4.3 | 6.2 |
| | Temperature of DHW | ϑw | °C | 40.0 | 0.0 | 40.0 | 40.0 | 40.0 |
| Ŧ | DHW system power * | P _{W;gen} | kW | 15.3 | 12.0 | 1.2 | 21.9 | 24.5 |
| | * These values refer to the apartment | scale | | | · | · | | |

Additional data: GEOMETRY (the plots refer to the apartment scale)





