



Town of Ghent

Geographic Table Design Requirements

For Commercial and Residential Permits

2020 NYS Uniform Code

The Town of Ghent is in Climate Zone 5A.

| TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA | | | | | | | | | | | | | |
|---|-------------|---------------------|---------------------|-----------------------|-------------------------|------------------------|------------------|--------------|--------------------|----------------------|----------------------------|--------------------|------------------|
| GROUND SNOW LOAD | WIND DESIGN | | | | SEISMIC DESIGN CATEGORY | SUBJECT TO DAMAGE FROM | | | WINTER DESIGN TEMP | ICE BARRIER REQUIRED | FLOOD HAZARDS | AIR FREEZING INDEX | MEAN ANNUAL TEMP |
| | Speed (mph) | Topographic Effects | Special Wind Region | Wind-Born Debris Zone | | Weathering | Frost Line Depth | Termite | | | | | |
| 40 lb/sf | 115 Vult | No | Yes | No | B | Severe | 48" | Mod To Heavy | See Below | Yes | Yes, (see Co. County GIS*) | 1,365 | 46° F |

| MANUAL J CRITERIA REQUIRED IN SUBMITTED CALCULATIONS | | | | | | | |
|--|-----------------------|-----------------------|---------------------|----------------------------|--------------------|----------------------------|--------------------------------|
| ELEVATION | LAT | WINTER HEATING | SUMMER COOLING | ALTITUDE CORRECTION FACTOR | INDOOR DESIGN TEMP | DESIGN TEMPERATURE COOLING | HEATING TEMPERATURE DIFFERENCE |
| 400 FT | 42° 18' N | -1° F | 88° F | 1.00 | 70° F | 75° F | 71° F |
| Cooling Temperature Difference | Wind Velocity Heating | Wind Velocity Cooling | Coincident Wet Bulb | Daily Range | Winter Humidity | Summer Humidity | |
| 13° F | 15 MPH | 7.5 MPH | 71° F | Medium (M) | 30% | 60% - 28 GR @50% RH | |

| IBC CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA | | | | | | | | | | | | | |
|---|-------------|---------------------|---------------------|-----------------------|-------------------------|------------------------|------------------|--------------|--------------------|----------------------|----------------------------|--------------------|------------------|
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| 40 lb/sf | 115 Vult | No | Yes | No | B | Severe | 48" | Mod To Heavy | See Below | Yes | Yes, (see Co. County GIS*) | 1,365 | 46° F |

Winter Design Temp:

- Interior spaces intended for human occupancy shall be provided with an indoor temperature of not less than 68° F at a point 3 feet above the floor on the design heating day
- System design shall be based on max 72° F heating, minimum 75° F cooling
- Degree days (Albany) 6,875, Winter Design Temp -1° F, Summer Dry Bulb 88° F, Wet Bulb 74° F (2020 PCNYS Appendix D)
- As per NYSBC 2020 Chapter 16 section 1609 and ASCE 7 2016, wind exposure category and surface roughness is B

* Columbia County Planning Department GIS: <https://sites.google.com/a/columbiacountyny.com/planning/GeoSpatial/gis-data-viewer>