# Town of Islip
# Geographic Table Design Requirements
## For Commercial and Residential Permits
### 2020 NYS Uniform Code

**The Town of Islip is within a hurricane prone region, Climate Zone 4a.**

| 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 | | | | | |
| 20 | 130 Vult | no | no | 1 Mile from Coast and Fire Island | B | Severe | BOF 3 FT BFG | Mod To Heavy | See Below | Yes | Call the Plans Examiners Office | 599 | 51° 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 |
| 108 FT | 41° N | 15° F | 86° F | 1.00 | 70° F | 75° F | 55° F |
| **Cooling Temperature Difference** | **Wind Velocity Heating** | | **Wind Velocity Cooling** | **Coincident Wet Bulb** | **Daily Range** | **Winter Humidity** | **Summer Humidity** |
| 11° F | 15 MPH | | 7.5 MPH | 72° F | Medium (M) | 40% | 32 GR @50% RH |

| IBC CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
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| 20 | 130 Vult | No | No | 1 Mile from Coast and Fire Island | B | Severe | BOF 3 FT BFG | Mod To Heavy | See Below | Yes | Call the Plans Examiners Office | 599 | 51° 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 (NY LaGuardia) 4811, Winter Design Temp 15° F, Dry Bulb 89° F, Wet Bulb 75° F (2020 IPC Appendix D)
- As per NYSBC 2020 Chapter 16 section 1609 and ASCE 7 2016, wind exposure category and surface roughness is B
- Use C for both South Shore and Fire Island