

**TOWN OF NEW CASTLE  
BUILDING DEPARTMENT**  
200 South Greeley Avenue, Chappaqua NY 10514  
(914) 238-4723

**CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

Location: Town Of New Castle											Zip Code: 10514		
Ground Snow Load	Wind Design				Seismic Design Category (RCNY Only)	Subject to Damage From			Winter Design Temp	Ice Barrier Underlayment Req'd	Flood Hazards	Air Freezing Index	Mean Annual Temp
	Speed (mph)	Topo Effects	Special Wind Region	Wind-borne Debris Zone		Weathering	Frost Line Depth	Termite					
30	*Special Wind Region	No	115 mph	No	C	Severe	42"	Moderate to Heavy	15	YES	**FIRM COMMUNITY-PANEL MAP# 36119C0261F EFFECTIVE DATE, 9-28-2007	1500 or less	51.6

\* 115 MPH to 120 MPH, The special wind region should serve as a warning to design professionals in evaluating wind loading conditions. Wind speeds higher than the derived values taken from Section 1609 of  
 \*\* State if applicable. For Flood Hazards the Design Professional shall state if they are applicable, Y/N. Verify with FIRM Maps.

**MANUAL J DESIGN CRITERIA**

Elevation	Latitude	Winter heating	Summer cooling	Altitude correction factor	Indoor design temperature	Design temperature cooling	Heating temperature difference
320	41	7	87	1	68	75	61
Cooling temperature difference	Wind velocity heating	Wind velocity cooling	Coincident wet bulb	Daily range	Winter humidity	Summer humidity	
12	20.4	7.5	72	M	30	55	

**INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT**

CLIMATE ZONE	FENESTRATION U-FACTOR	SKYLIGHT U-FACTOR	GLAZED FENESTRATION SHGC	CEILING R-VALUE	WOOD FRAME WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT WALL R-VALUE	SLAB R-VALUE & DEPTH	CRAWL SPACE WALL R-VALUE
<b>TABLE R402.1.2 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT</b>										
4A	0.32	0.55	0.4	49	20 or 13+5	8/13	19	10/13	10, 2 FT	10/13
4A STRETCH CODE	0.27	0.5	0.4	49	21 int or 20 + 5 or 13 + 10	15/20	30	15/19	10, 4FT	15/19
<b>TABLE R402.1.4 EQUIVALENT U-FACTORS</b>										
4A	0.32	0.55		0.026	0.06	0.098	0.047	0.059		0.055
4A STRETCH CODE	0.27	0.5		0.026	0.045	0.056	0.033	0.05		0.042