780 CMR 53.00

BUILDING PLANNING FOR SINGLE- AND TWO-FAMILY DWELLINGS

780 CMR 5301 DESIGN CRITERIA

5301.1 Design. Buildings and structures, and all parts thereof, shall be constructed to safely support all loads, including dead loads, live loads, roof loads, flood loads, snow loads, wind loads as prescribed by 780 CMR 51.00 through 99.00. The construction of buildings and structures shall result in a system that provides a complete load path capable of transferring all loads from their point of origin through the load-resisting elements to the foundation.

5301.1.1 Alternative Provisions. *As an alternative to the requirements in 780 CMR 5301.1 the following standards are permitted subject to the limitations of 780 CMR 51.00 through 99.00 and the limitations therein. In lieu of prescriptive compliance, where engineered design is used in conjunction with these standards the engineered design shall be performed by a Massachusetts-registered professional engineer or architect, employ an appropriate engineering rationale consistent with the standards below and utilize the wind and snow loads set forth in 780 CMR 51.00 through 99.00.*.

1. American Forest and Paper Association (AF&PA) *Wood Frame Construction Manual* (WFCM).
2. American Iron and Steel Institute (AISI), *Standard for Cold-Formed Steel Framing-Prescriptive Method for One- and Two-family Dwellings* (COFS/PM).

Note that seismic design requirements are not applicable to one- and two-family detached dwellings.

5301.1.2 Construction Systems. The requirements of 780 CMR 51.00 through 99.00 are based on platform and balloon-frame construction for light-frame buildings. The requirements for concrete and masonry buildings are based on a balloon framing system. Other framing systems must have equivalent detailing to ensure force transfer, continuity and compatible deformations.

5301.1.3 Engineered Design. *When a building of otherwise conventional construction contains structural elements exceeding the limits of 780 CMR 5301 or otherwise, not conforming to 780 CMR 51.00 through 99.00, these elements shall be designed in accordance with accepted engineering practice. The extent of such design need only demonstrate compliance of nonconventional elements with other applicable provisions and shall be compatible with the performance of the conventional framed system. Engineered design shall be provided by a Massachusetts-registered professional engineer or architect and shall utilize the wind and snow loads set forth in 780 CMR 51.00 through 99.00.*

5301.2 Climatic and Geographic Design Criteria. Buildings shall be constructed in accordance with the provisions of 780 CMR 51.00 through 99.00 as limited by the provisions of 780 CMR 5301; ***also see 780 CMR Table 5301.2 (1)***.

5301.2.1 Wind Limitations. Buildings and portions thereof shall be limited by wind speed, as defined in 780 CMR Table 5301.2(1), and construction methods in accordance with 780 CMR 51.00 through 99.00. Basic wind speeds shall be determined from 780 CMR Table 5301.2(4). Where different construction methods and structural materials are used for various portions of a building, the applicable requirements of 780 CMR 5301 for each portion shall apply. Where loads for windows, skylights and exterior doors are not otherwise specified, the loads listed in 780 CMR Table 5301.2(2) adjusted for height and exposure per 780 CMR Table 5301.2(3), shall be used to determine design load performance requirements for windows and doors.

5301.2.1.1 Design Criteria. Construction in regions where the basic wind speeds from780 CMR Table 5301.2(4) equal or exceed 110 miles per hour (177.1 km/h) shall be designed in accordance with one of the following:

1. American Forest and Paper Association (AF&PA) *Wood Frame Construction Manual for One- and Two-Family Dwellings* (WFCM); or

1.1 American Forrest and Paper Association *Guide to Wood Construction in High Wind Areas for One- and Two-Family Dwellings, 110 mph Exposure B*. A Commonwealth of MA version of the checklist can be used in place of the checklist at the end of the guide. The MA version is found in Appendix 780 CMR 120.P

2. *Southern Building Code Congress International Standard for Hurricane Resistant Residential Construction* (SSTD 10); or
3. *Minimum Design Loads for Buildings and Other Structures* (ASCE-7); or
4. American Iron and Steel Institute (AISI), *Standard for Cold-Formed Steel Framing-Prescriptive Method for One- and*

Two-family Dwellings (COFS/PM).

5. Concrete construction shall be designed in accordance with the provisions of 780 CMR 51.00 through 99.00.

5301.2.1.2 Internal Pressure. Windows in buildings located in wind borne debris regions shall have glazed openings protected from windborne debris or the building shall be designed as a partially enclosed building in accordance with the *International Building Code* ***but utilizing the wind loads set forth in 780 CMR 51.00 through 99.00***. Glazed opening protection for windborne debris shall meet the requirements of the Large Missile Test of ASTM E 1996 and of ASTM E 1886 referenced therein.

TABLE 5301.2(1)
MASSACHUSETTS CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

GROUND SNOW LOAD	WIND SPEED[e] (mph)	SEISMIC DESIGN CATEGORY[g] *(One- and Two-Family Detached Dwellings-only)*	SUBJECT TO DAMAGE FROM				WINTER DESIGN TEMP[i]	ICE SHIELD UNDERLAYMENT REQUIRED[j]	FLOOD HAZARD[h]	AIR FREEZING INDEX[j]	MEAN ANNUAL TEMP[k]
			Weathering[a]	Frost Line Depth[b]	Termite[c]	Decay[d]					
Table 5301.2(5)	*Table 5301.2(4)*	*N/A*	*Figure 5301.2(3)*	*4 ft. Minimum unless engineered data shows otherwise*	*Figure 5301.2(6)*	*Figure 5301.2(7)*	*Appendix 780 CMR 120.J3.2.1*	*As required by the exterior roof covering manufacturer; roof pitch and local climate must also be considered*	*Refer to the applicable Flood Insurance Rate Map (FIRM)*	*Only utilized in the design and construction of frost-protected shallow foundations*	*Only utilized in the design and construction of frost-protected shallow foundations*

For SI: 1 foot = 304.8 mm.

a. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The weathering index ("negligible," "moderate" or "severe") shall be determined from the Weathering Probability Map [Figure 5301.2(3)]. The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652, as applicable.

b. The frost line depth shall be a minimum of 4 feet in Massachusetts unless engineering data demonstrates that the frost line depth is less than or greater than 4 feet. Under no circumstances will permanent foundation systems, required to be protected from frost be allowed set at less than 4 feet without engineering design ensuring foundation frost protection.

c. Site-specific termite conditions should be determined when possible, otherwise Figure 5301.2(6) shall be utilized.

d. Typically "slight" to "moderate."

e. The basic wind speed shall be determined from Table 5301.2(4) for the specific city or town where construction is intended.

f. See Appendix 780 CMR 120.J3.2.1.

g. Seismic design is not required for one- and two-family detached dwellings.

h. The community Flood Insurance Rate Map (FIRM) shall be utilized to establish the flood hazard.

i. The requirements of the manufacturer of the exterior roof covering shall be followed with regard to ice shield underlayment; likewise roof pitch and local climate must be considered.

j. Only utilized when one is designing a frost-protected shallow foundation. When applicable, refer to the "100-year return period air freezing index" from Figure 5403.3(2) and for further clarification view the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°Fahrenheit)" at www.ncdc.noaa.gov/fpsf.html.

k. Only utilized when one is designing a frost-protected shallow foundation. When applicable, refer to the "100-year return period air freezing index" from Figure 5403.3(2) and for further clarification view the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°Fahrenheit)" at www.ncdc.noaa.gov/fpsf.html.

780 CMR TABLE 5301.2(2)
COMPONENT AND CLADDING LOADS FOR A BUILDING WITH A MEAN ROOF HEIGHT OF 30 FEET LOCATED IN EXPOSURE B (psf)

	ZONE	EFFECTIVE WIND AREA (feet^2)	BASIC WIND SPEED (mph—3-second gust)																							
			85		90		100		105		110		120		125		130		140		145		150		170	
Roof > 0 to 10 degrees	1	10	10.0	-13.0	10.0	-14.6	10.0	-18.0	10.0	-19.8	10.0	-21.8	10.5	-25.9	11.4	-28.1	12.4	-30.4	14.3	-35.3	15.4	-37.8	16.5	-40.5	21.1	-52.0
	1	20	10.0	-12.7	10.0	-14.2	10.0	-17.5	10.0	-19.3	10.0	-21.2	10.0	-25.2	10.7	-27.4	11.6	-29.6	13.4	-34.4	14.4	-36.9	15.4	-39.4	19.8	-50.7
	1	50	10.0	-12.2	10.0	-13.7	10.0	-16.9	10.0	-18.7	10.0	-20.5	10.0	-24.4	10.0	-26.4	10.6	-28.6	12.5	-33.3	13.1	-35.6	14.1	-38.1	18.1	-48.9
	1	100	10.0	-11.9	10.0	-13.3	10.0	-18.5	10.0	-18.2	10.0	-19.9	10.0	-23.7	10.0	-25.7	10.0	-27.8	11.4	-32.3	12.2	-34.6	13.0	-37.0	16.7	-47.6
	2	10	10.0	-21.8	10.0	-24.4	10.0	-30.2	10.0	-33.3	10.0	-36.5	10.5	-43.5	11.4	-47.2	12.4	-51.0	14.3	-59.2	15.4	-63.5	16.5	-67.9	21.1	-87.2
	2	20	10.0	-19.5	10.0	-21.8	10.0	-27.0	10.0	-29.7	10.0	-32.6	10.0	-38.8	10.7	-42.1	11.6	-45.6	13.4	-52.0	14.4	-56.7	15.4	-60.7	19.8	-78.0
	2	50	10.0	-16.4	10.0	-18.4	10.0	-22.7	10.0	-25.1	10.0	-27.5	10.0	-32.7	10.0	-35.5	10.6	-38.4	12.3	-44.5	13.1	-47.8	14.1	-51.1	18.1	-65.7
	2	100	10.0	-14.1	10.0	-15.8	10.0	-19.5	10.0	-21.5	10.0	-23.6	10.0	-28.1	10.0	-30.5	10.0	-33.0	11.4	-38.2	12.2	-41.0	13.0	-43.9	16.7	-56.4
	3	10	10.0	-32.8	10.0	-36.8	10.0	-45.4	10.0	-50.1	10.0	-55.0	10.5	-65.4	11.4	-71.0	12.4	-76.8	14.3	-89.0	15.4	-95.5	16.5	-102.2	21.1	-131.3
	3	20	10.0	-27.2	10.0	-30.5	10.0	-37.6	10.0	-41.5	10.0	-45.5	10.0	-54.2	10.7	-58.8	11.6	-63.6	13.4	-73.8	14.4	-79.1	15.4	-84.7	19.8	-108.7
	3	50	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	-30.1	10.0	-33.1	10.0	-39.3	10.0	-42.7	10.6	-46.2	12.3	-53.5	13.1	-57.4	14.1	-6.15	18.1	-78.9
	3	100	10.0	-14.1	10.0	-15.8	10.0	-19.5	10.0	-21.5	10.0	-23.6	10.0	-28.1	10.0	-30.5	10.0	-33.0	11.4	-38.2	12.2	-41.0	13.0	-43.9	16.7	-56.4
Roof > 10 to 30 degrees	1	10	10.0	-11.9	10.0	-13.3	10.4	-16.5	11.4	-18.2	12.5	-19.9	14.9	-23.7	16.2	-25.7	17.5	-27.8	20.3	-32.3	21.8	-35.6	23.3	-37.0	30.0	-47.6
	1	20	10.0	-11.6	10.0	-13.0	10.0	-16.0	10.4	-17.6	11.4	-19.4	13.6	-23.0	14.8	-25.0	16.0	-27.0	18.5	-31.4	19.9	-33.7	21.3	-36.0	27.3	-56.3
	1	50	10.0	-11.1	10.0	-12.5	10.0	-15.4	10.0	-17.0	10.0	-18.6	11.9	-22.2	12.9	-24.1	13.9	-26.0	16.1	-30.2	17.3	-32.4	18.5	-34.6	23.8	-44.5
	1	100	10.0	-10.8	10.0	-12.1	10.0	-14.9	10.0	-16.5	10.0	-18.1	10.5	-21.5	11.4	-23.3	12.4	-25.2	14.3	-29.3	15.4	-31.4	16.5	-33.6	21.1	-43.2
	2	10	10.0	-25.1	10.0	-28.2	10.4	-34.8	11.4	-38.3	12.5	-42.1	14.9	-50.1	16.2	-54.3	17.5	-58.7	20.3	-68.1	21.8	-73.1	23.3	-78.2	30.0	-100.5
	2	20	10.0	-22.8	10.0	-25.6	10.0	-31.5	10.4	-34.8	11.4	-38.2	13.6	-45.4	14.8	-49.3	16.0	-53.3	18.5	-61.8	19.9	-66.3	21.3	-71.0	27.3	-91.2
	2	50	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	-30.1	10.0	-33.0	11.9	-39.3	12.9	-42.7	13.9	-46.1	16.1	-53.5	17.3	-57.4	18.5	-61.4	23.8	-78.9
	2	100	10.0	-17.4	10.0	-19.5	10.0	-24.1	10.0	-26.6	10.0	-29.1	10.5	-24.7	11.4	-37.6	12.4	-40.7	14.3	-47.2	15.4	-50.6	16.5	-54.2	21.1	-69.6
	3	10	10.0	-25.1	10.0	-28.2	10.4	-34.8	11.4	-38.3	12.5	-42.1	14.9	-50.1	16.2	-54.3	17.5	-58.7	20.3	-68.1	21.8	73.1	23.3	-78.2	30.0	-100.5
	3	20	10.0	-22.8	10.0	-25.6	10.0	-31.5	10.4	-34.8	11.4	-38.2	13.6	-45.4	14.7	-49.3	16.0	-53.3	18.5	-61.8	19.9	-66.3	21.3	-71.0	27.3	-91.2
	3	50	10.0	-19.7	10.0	-22.1	10.0	-27.3	10.0	-30.1	10.0	-33.0	11.9	-39.3	12.9	-42.7	13.9	-46.1	16.1	-53.5	17.3	-57.4	18.5	-61.4	23.8	-78.9
	3	100	10.0	-17.4	10.0	-19.5	10.0	-24.1	10.0	-26.6	10.0	-29.1	10.5	-34.7	11.4	-37.6	12.4	-40.7	14.3	-47.2	15.4	50.6	16.5	-54.2	21.1	-69.6
Roof > 30 to 45 degrees	1	10	11.9	-13.0	13.3	-14.6	16.5	-18.0	18.2	-19.8	19.9	-21.8	23.7	-25.9	25.7	-28.1	27.8	-30.4	32.3	-35.3	34.6	-37.8	37.0	-40.5	47.6	-52.0
	1	20	11.6	-12.3	13.0	-13.8	16.0	-17.1	17.6	-18.8	19.4	-20.7	23.0	-24.6	25.0	-26.7	27.0	-28.9	31.4	-33.5	33.7	35.9	26.0	-38.4	46.3	-49.3
	1	50	11.1	-11.5	12.5	-12.8	15.4	-15.9	17.0	-17.5	18.6	-19.2	22.2	-22.8	24.1	-24.8	26.0	-25.8	30.2	-31.1	32.4	-33.3	34.6	-35.7	44.4	-45.8
	1	100	10.8	-10.8	12.1	-12.1	14.9	-14.9	16.5	-16.5	18.1	-18.1	21.5	-21.5	23.3	-23.3	25.2	-25.2	29.3	-29.3	31.4	-31.4	33.6	-33.6	43.2	-53.2
	2	10	11.9	-15.2	13.3	-17.0	16.5	-21.0	18.2	-23.2	19.9	-25.5	23.7	-30.3	25.7	-32.9	27.8	-35.6	32.3	-41.2	34.6	-44.2	37.0	-47.3	47.6	-60.8
	2	20	11.6	-14.5	13.0	-16.3	16.0	-20.1	17.6	-22.2	19.4	-24.3	23.0	-29.0	25.0	-31.4	27.0	-34.0	31.4	-39.4	33.7	-42.3	26.0	-45.3	46.3	-58.1
	2	50	11.1	-13.7	12.5	-15.3	15.4	-18.9	17.0	-20.8	18.6	-22.9	22.2	-27.2	24.1	-29.5	26.0	-32.0	30.2	-37.1	32.4	-39.8	34.6	-42.5	44.5	-54.6
	2	100	10.8	-13.0	12.1	-14.6	14.9	-18.0	16.5	-19.8	18.1	-21.8	21.5	-25.9	23.3	-28.1	25.2	-30.4	29.3	-35.3	31.4	-37.8	33.6	-405.	43.2	-52.0
	3	10	11.9	-15.2	13.3	-17.0	16.5	-21.0	18.2	-23.2	19.9	-25.5	23.7	-30.3	25.7	-32.9	27.8	-35.6	32.3	-41.2	34.6	-44.2	37.0	-47.3	47.6	-60.8
	3	20	11.6	-14.5	13.0	-16.3	16.0	-20.1	17.6	-22.2	19.4	-24.3	23.0	-29.0	25.0	-31.4	27.0	-34.0	31.4	-39.4	33.7	-42.3	36.0	-45.3	46.3	-58.1
	3	50	11.1	-13.7	12.5	-15.3	15.4	-18.9	17.0	-20.8	18.6	-22.9	22.2	-27.2	24.1	-29.5	26.0	-32.0	30.2	-37.1	32.4	-39.8	34.6	-42.5	44.5	-54.5
	3	100	10.8	-13.0	12.1	-14.8	14.9	-18.0	16.5	-19.8	18.1	-21.8	21.5	-25.9	23.3	-28.1	25.2	-30.4	29.3	-35.3	31.4	-37.8	33.6	-40.5	43.2	-52.0
Wall	4	10	13.0	-14.1	14.6	-15.8	18.0	-19.5	19.8	-21.5	21.8	-23.6	25.9	-28.1	28.1	-30.5	30.4	-33.0	35.3	-38.2	37.8	-41.0	40.5	-43.9	52.0	-56.4
	4	20	12.4	-13.5	13.9	-15.1	17.2	-18.7	18.9	-20.6	20.8	-22.6	24.7	-26.9	26.8	-29.2	29.0	-31.6	33.7	-36.7	36.1	-39.3	38.7	-42.1	49.6	-54.1
	4	50	11.6	-12.7	13.0	-14.3	16.1	-17.6	17.8	-19.4	19.5	-21.3	23.2	-25.4	25.2	-27.5	27.2	-29.8	31.6	-34.3	33.9	-37.1	26.2	-39.7	46.6	-51.0
	4	100	11.1	-12.2	12.4	-13.6	15.3	-16.8	16.9	-18.5	18.5	-20.4	22.0	-24.2	23.9	-26.3	25.9	-28.4	30.0	-33.0	32.2	-35.4	34.4	-37.8	44.2	-48.6
	5	10	13.0	-17.4	14.6	-19.5	18.0	-24.1	19.8	-26.6	21.8	-29.1	25.9	-34.7	28.1	-37.6	30.4	-40.7	35.3	-47.2	37.8	-50.6	40.5	-54.2	52.0	-69.6
	5	20	12.4	-16.2	13.9	-18.2	17.2	-22.5	18.9	-24.8	20.8	-27.2	24.7	-32.4	26.8	-35.1	29.0	-38.0	33.7	-44.0	36.1	-47.2	38.7	-50.5	49.6	-54.9
	5	50	11.6	-14.7	13.0	-16.5	16.1	-20.3	17.8	-22.4	19.5	-24.6	23.2	-29.3	25.2	-31.8	27.2	-34.3	31.6	-39.8	33.9	-42.7	36.2	-45.7	46.6	-58.7
	5	100	11.1	-13.5	12.4	-15.1	15.3	-18.7	16.9	-21.6	18.5	-22.6	22.0	-26.9	23.9	-29.2	25.9	-31.6	30.0	-36.7	32.2	32.2	34.4	-42.1	44.2	-54.1

For SI: 1 foot = 304.8 mm, 1 square foot = 0.0929 m^2, 1 mile per hour = 1.609 km/h.

NOTES: For effective areas between those given above the load may be interpolated, otherwise use the load associated with the lower effective area. Table values shall be adjusted for height and exposure by multiplying by the adjustment coefficient in 780 CMR Table 5301.2(3).

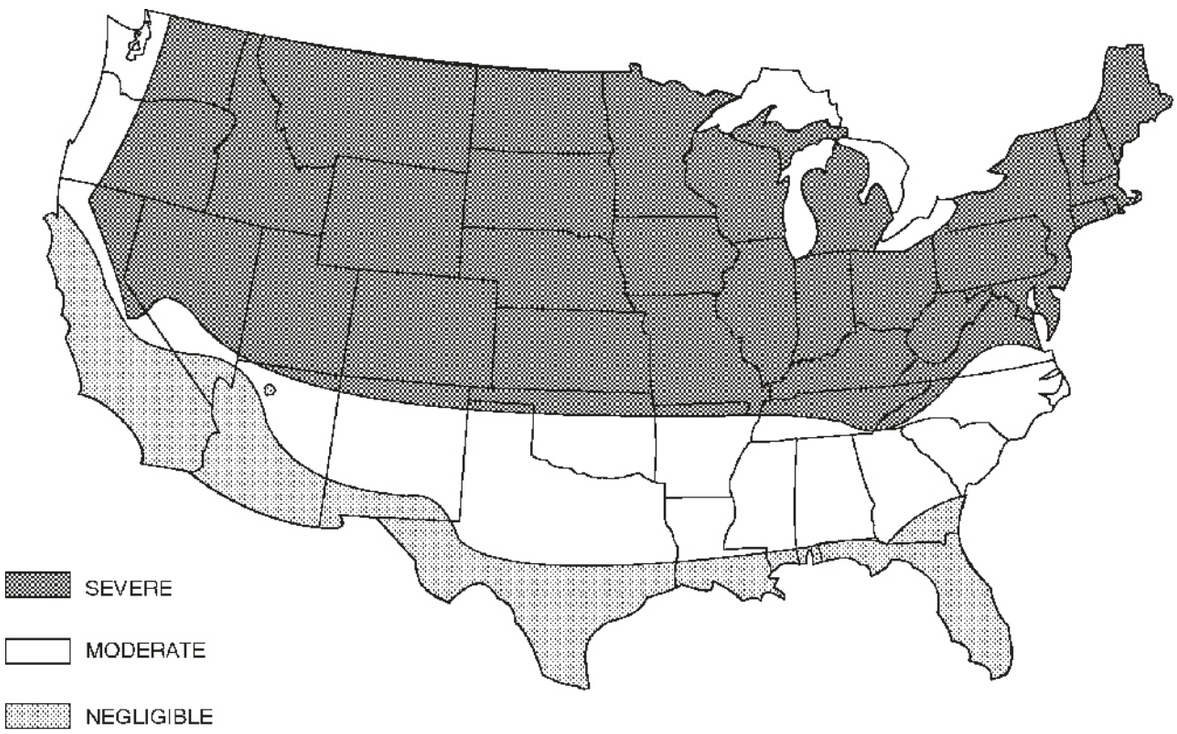
See Figure 780 CMR 5301.2(8) for location of zones.

Plus and minus signs signify pressures acting toward and away from the building surfaces.

780 CMR TABLE 5301.2(3)
HEIGHT AND EXPOSURE ADJUSTMENT COEFFICIENTS FOR TABLE 5301.2(2)

MEAN ROOF HEIGHT	EXPOSURE		
	B	C	D
15	1.00	1.21	1.47
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66
35	1.05	1.45	1.70
40	1.09	1.49	1.74
45	1.12	1.53	1.78
50	1.16	1.56	1.81
55	1.19	1.59	1.84
60	1.22	1.62	1.87

780 CMR [B] FIGURE 5301.2(3)
WEATHERING PROBABILITY MAP FOR CONCRETE



a. Alaska and Hawaii are classified as severe and negligible, respectively.
b. Lines defining areas are approximate only. Local conditions may be more or less severe than indicated by region classification. A severe classification is where weather conditions result in significant snowfall combined with extended periods during which there is little or no natural thawing causing deicing salts to be used extensively.

TABLE 5301.2(4) MASSACHUSETTS BASIC WIND SPEEDS

<90 MPH	90 MPH		100 MPH		110 MPH
Adams	Acton	New Braintree	Abington	Middleton	Acushnet
Alford	Agawam	New Marlborough	Amesbury	Milford	Aquinnah
Ashfield	Amherst	New Salem	Andover	Millis	Barnstable
Becket	Ashburnham	North Brookfield	Arlington	Millville	Bourne
Bernardston	Ashby	Northampton	Ashland	Milton	Brewster
Buckland	Athol	Northborough	Attleboro	Nahant	Carver
Cheshire	Auburn	Northfield	Avon	Natick	Chatham
Clarksburg	Ayer	Oakham	Bedford	Needham	Chillmark
Colrain	Barre	Orange	Bellingham	Newbury	Dartmouth
Cummington	Belchertown	Otis	Belmont	Newburyport	Dennis
Dalton	Berlin	Palmer	Berkley	Newton	Duxbury
Egremont	Blandford	Paxton	Beverly	Norfolk	Eastham
Florida	Bolton	Pelham	Billerica	North Andover	Edgartown
Great Barrington	Boxborough	Pepperell	Blackstone	North Attleborough	Fairhaven
Greenfield	Boylston	Petersham	Boston	North Reading	Fall River
Hancock	Brimfield	Phillipston	Boxford	Northbridge	Falmouth
Hawley	Brookfield	Princeton	Braintree	Norton	Freetown
Heath	Carlisle	Rolyalston	Bridgewater	Norwell	Gay Head
Hinsdale	Charlton	Russell	Brockton	Norwood	Gosnold
Lanesborough	Chelmsford	Rutland	Brookline	Oxford	Halifax
Lee	Chester	Sandisfield	Burlington	Peabody	Harwich
Lenox	Chesterfield	Shirley	Cambridge	Plainville	Kingston
Leyden	Chicopee	Shrewsbury	Canton	Quincy	Lakeville
Middlefield	Clinton	Shutesbury	Chelsea	Randolph	Marion
Monroe	Conway	South Hadley	Cohasset	Raynham	Marshfield
Monterey	Deerfield	Southampton	Concord	Reading	Mashpee
Mount Washington	Dracut	Southbridge	Danvers	Rehoboth	Mattapoisett
New Ashford	Dunstable	Southwick	Dedham	Revere	Middleborough
North Adams	East Brookfield	Spencer	Dighton	Rockland	Nantucket
Peru	East Longmeadow	Springfield	Douglas	Rockport	New Bedford
Pittsfield	Easthampton	Sterling	Dover	Rowley	Oak Bluffs
Plainfield	Erving	Stow	Dudley	Salem	Orleans
Richmond	Fitchburg	Sturbridge	East Bridgewater	Salisbury	Pembroke
Rowe	Gardner	Sunderland	Easton	Saugus	Plymouth
Savoy	Gill	Templeton	Essex	Seekonk	Provincetown
Sheffield	Goshen	Tolland	Everett	Sharon	Rochester
Shelburne	Granby	Townsend	Foxborough	Sherborn	Sandwich
Stockbridge	Granville	Tyngsborough	Framingham	Somerville	Scituate
Tyringham	Groton	Wales	Franklin	Southborough	Somerset
Washington	Hadley	Ware	Georgetown	Stoneham	Swansea
West Stockbridge	Hampden	Warren	Gloucester	Stoughton	Tisbury
Williamstown	Hardwick	Warwick	Grafton	Sudbury	Truro
Windsor	Harfield	Wendell	Groveland	Sutton	Wareham
Worthington	Harvard	West Boylston	Hamilton	Swampscott	Welfleet
	Holden	West Brookfield	Hanover	Taunton	West Tisbury
	Holland	West Springfield	Hanson	Tewksbury	Westport
	Holyoke	Westfield	Haverhill	Topsfield	Yarmouth
	Hubbardston	Westford	Hingham	Upton	
	Hudson	Westhampton	Holbrook	Uxbridge	
	Huntington	Westminster	Holliston	Wakefield	
	Lancaster	Whately	mm	Walpole	
	Lawrence	Wilbraham	Hopkington	Waltham	
	Leicester	Williamsburg	Hull	Watertown	
	Leominster	Winchendon	Ipswich	Wayland	
	Leverett	Worcester	Lexington	Webster	
	Littleton		Lincoln	Wellesley	
	Longmeadow		Lynn	Wenham	
	Lowell		Lynnfield	West Bridgewater	
	Ludlow		Malden	West Newbury	
	Lunenburg		Manchester	Westborough	
	Maynard		Mansfield	Weston	
	Methuen		Marblehead	Westwood	
	Millbury		Marlborough	Weymouth	
	Monson		Medfield	Whitman	
	Montague		Medford	Willmington	
	Montgomery		Medway	Winchester	
			Melrose	Winthrop	
			Mendon	Woburn	
			Merrimac	Wrentham	

TABLE 5301.2(5) MASSACHUSETTS GROUND SNOW LOADS

25 PSF	35 PSF	40 PSF	40 PSF	50 PSF		
Brewster	Abington	Alford	Nahant	Acton	Lenox	Topsfield
Carver	Agawam	Arlington	Natick	Adams	Leominster	Townsend
Chatham	Amherst	Ashland	Needham	Amesbury	Leverett	Tyngsborough
Eastham	Avon	Belchertown	New Braintree	Andover	Leyden	Tyringham
Harwich	Braintree	Belmont	New Marlborough	Ashburnham	Littleton	Warwick
Martha's Vineyard	Brockton	Bellingham	New Salem	Ashby	Lowell	Washington
Nantucket	Chicopee	Beverly	Newton	Ashfield	Lunenburg	Wendell
Orleans	Cohasset	Blackstone	Norfolk	Athol	Maynard	Wenham
Plymouth	East Longmeadow	Blandford	Northbridge	Auburn	Merrimac	West Boylston
Provincetown	Easton	Boston	Norwood	Ayer	Methuen	West Newbury
Truro	Foxborough	Brimfield	Peabody	Barre	Middlefield	West Stockbridge
Wareham	Granby	Brookfield	Pelham	Becket	Millbury	Westfield
Wellfleet	Hadley	Brookline	Quincy	Bedford	Monroe	Westford
	Hampden	Cambridge	Revere	Berlin	Montague	Westminster
	Hingham	Canton	Russell	Bernardston	Monterey	Whately
	Holbrook	Charlton	Salem	Billerica	New Ashford	Williamsburg
	Holyoke	Chelsea	Saugus	Bolton	Newbury	Williamstown
30 PSF	Hull	Dedham	Sheffield	Boxborough	Newburyport	Willmington
Acushnet	Longmeadow	Douglas	Sherborn	Boxford	North Adams	Winchendon
Attleboro	Ludlow	Dover	Shutesbury	Boylston	North Andover	Windsor
Barnstable	Mansfield	Dudley	Somerville	Buckland	North Brookfield	Worthington
Berkley	Monson	East Brookfield	Southampton	Burlington	North Reading	
Bourne	North Attleborough	Easthampton	Southborough	Carlisle	Northampton	
Bridgewater	Norwell	Everett	Southbridge	Chelmsford	Northborough	
Dartmouth	Palmer	Framingham	Stoneham	Cheshire	Northfield	
Dennis	Plainville	Franklin	Sturbridge	Chester	Oakham	
Dighton	Randolph	Grafton	Sudbury	Chesterfield	Orange	
Duxbury	Rockland	Granville	Sutton	Clarksburg	Otis	
East Bridgewater	Scituate	Great Barrington	Swampscott	Clinton	Oxford	
Fairhaven	Sharon	Hardwick	Tolland	Colrain	Paxton	
Fall River	South Hadley	Hatfield	Upton	Concord	Pepperell	
Falmouth	Southwick	Holland	Uxbridge	Conway	Peru	
Freetown	Springfield	Holliston	Wakefield	Cummington	Petersham	
Gosnold	Stoughton	Hopkington	Wales	Dalton	Phillipston	
Halifax	West Springfield	Lexington	Walpole	Danvers	Pittsfield	
Hanover	Weymouth	Lincoln	Waltham	Deerfield	Plainfield	
Hanson	Wilbraham	Lynn	Ware	Dracut	Princeton	
Kingston		Lynnfield	Warren	Dunstable	Reading	
Lakeville		Malden	Washington	Egremont	Richmond	
Marion		Manchester	Watertown	Erving	Rockport	
Marshfield		Marblehead	Wayland	Essex	Rolyalston	
Mashpee		Marlborough	Webster	Fitchburg	Rowe	
Mattapoisett		Medfield	Wellesley	Florida	Rowley	
Middleborough		Medford	West Brookfield	Gardner	Rutland	
New Bedford		Medway	Westborough	Georgetown	Salisbury	
Norton		Melrose	Westhampton	Gill	Sandisfield	
Pembroke		Mendon	Weston	Gloucester	Savoy	
Raynham		Middleton	Westwood	Goshen	Shelburne	
Rehoboth		Milford	Winchester	Greenfield	Shirley	
Rochester		Millis	Winthrop	Groton	Shrewsbury	
Sandwich		Millville	Woburn	Groveland	Spencer	
Seekonk		Milton	Worcester	Hamilton	Sterling	
Somerset		Montgomery	Wrentham	Hancock	Stockbridge	
Swansea		Mount Washington		Harvard	Stow	
Taunton				Haverhill	Sunderland	
West Bridgewater				Hawley	Templeton	
Westport				Heath	Tewksbury	
Whitman				Hinsdale		
Yarmouth				Holden		
				Hubbardston		
				Hudson		
				Huntington		
				Ipswich		
				Lancaster		
				Lanesborough		
				Lawrence		
				Lee		
				Leicester		