

Lesson 2

Code Discussion

What is required by Code?



New Construction

In 2008, the Minnesota Legislature passed legislation that establishes the State Building Code (SBC) as the minimum “construction standard” throughout all of Minnesota, including all cities, all townships, and all counties.

MN Statutes 326B.121

<https://www.revisor.mn.gov/statutes/cite/326B.121>



New Construction

2021 Minnesota Statutes

326B.121 STATE BUILDING CODE; APPLICATION AND ENFORCEMENT.

Subdivision 1. **Application.** (a) The State Building Code is the standard that applies statewide for the construction, reconstruction, alteration, repair, and use of buildings and other structures of the type governed by the code.

(b) The State Building Code supersedes the building code of any municipality.

(c) The State Building Code does not apply to agricultural buildings except:

MN Statutes 326B.121

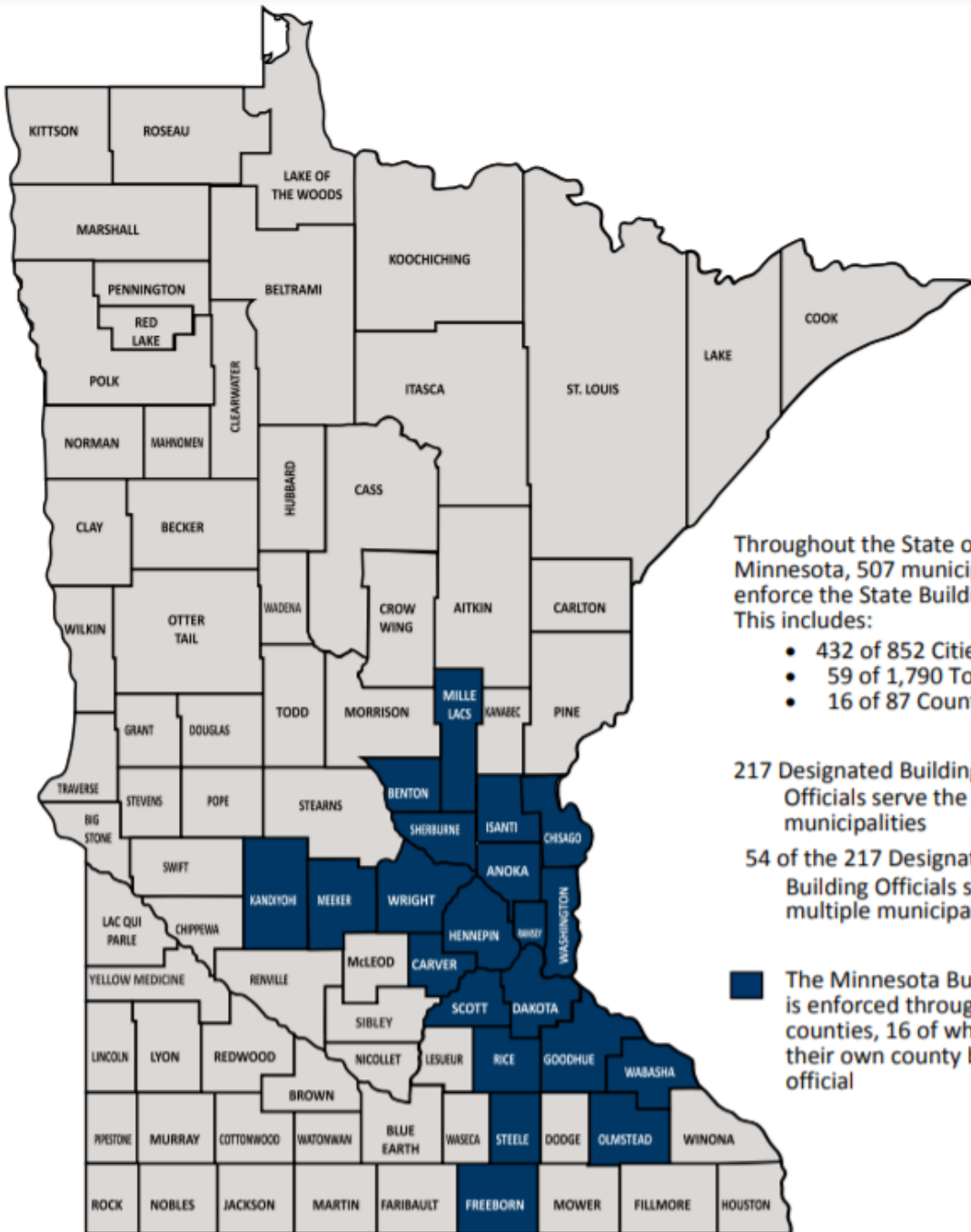
<https://www.revisor.mn.gov/statutes/cite/326B.121>

Structural Evaluation Of Farm Buildings

<https://securereservercdn.net/45.40.150.47/65e.a56.myftpupload.com/wp-content/uploads/2020/01/Farm-Buildings-Code-Exempt-2020-01-08.pdf>



Minnesota State Building Code Applies Everywhere in the State (is it enforced)




Throughout the State of Minnesota, 507 municipalities enforce the State Building Code. This includes:

- 432 of 852 Cities
- 59 of 1,790 Townships
- 16 of 87 Counties

217 Designated Building Officials serve the 507 municipalities

54 of the 217 Designated Building Officials serve multiple municipalities.

 The Minnesota Building Code is enforced throughout 21 counties, 16 of which have their own county building official

https://www.dli.mn.gov/sites/default/files/pdf/bc_map_county_jurisdiction.pdf



LOCAL CODE LOOKUP

Minnesota State Building Code Jurisdiction Directory

Use the search tool below to display jurisdiction directory information for a specific city or township and county.

City name

Township name

County name

Search

Reset



o walk-in customers.

APPRENTICESHIP AND DUAL TRAINING

CODES AND LAWS

2020 Minnesota State Building Codes

Bleacher safety standards

Code fact sheets, reports, publications

Laws and rules

Overview of the Minnesota State Building Code

Starting a business: What to know

ELECTRICAL CONTRACTORS

ELEVATOR CONTRACTORS

EMPLOYMENT PRACTICES

HIGH PRESSURE PIPING CONTRACTORS

INDEPENDENT CONTRACTOR REGISTRATION

LICENSE FORMS, PERMITS, PLAN REVIEW AND LOCAL GOVERNMENTS

MANUFACTURED STRUCTURES

PLUMBING AND MECHANICAL CONTRACTORS

For business > Codes and Laws > 2020 Minnesota State Building Codes

2020 MINNESOTA STATE BUILDING CODES

The 2020 Minnesota State Building Code is effective March 31, 2020, except for the Minnesota Mechanical Fuel Gas Code, which is effective April 6, 2020.

It is the minimum construction standard throughout all of Minnesota. Although it is not enforceable by municipalities unless it is adopted by local ordinance, it creates a level playing field for the construction industry by establishing the Minnesota State Building Code as the standard for the construction of all buildings in the state.

2020 Minnesota Codes	View code	Where to purchase	Fact sheet
Codes overview: Guide to the State Building Code			
2020 Minnesota Building Code	View	ICC	Fact sheet
2020 Minnesota Residential Code* (English version)	View	ICC	Fact sheet
2020 Minnesota Residential Code* (Spanish version)	View	ICC	Fact Sheet
2020 Minnesota Energy Code	View	ICC	Fact sheet
2020 Minnesota Accessibility Code	View	ICC	Fact sheet
2020 Minnesota Mechanical and Fuel Gas Code	View	ICC	Fact sheet
2020 Minnesota Plumbing Code	View	IAPMO	Fact sheet
2020 Minnesota Conservation Code for Existing Buildings	View	ICC	Fact sheet
2020 Minnesota Fire Code	View	ICC	
Minnesota Electrical Code	View		Fact sheet



CODE BOOK FACT SHEET

2020 MINNESOTA RESIDENTIAL CODE

Minnesota Department of Labor and Industry

2020 MINNESOTA RESIDENTIAL CODE

- Regulates the design, construction, addition, alteration, repair, use, and location of detached one- and two-family dwellings, certain townhouses and their accessory structures.
- Contains detailed provisions governing dwelling construction including requirements for structural, life-safety, fire-safety and moisture protection.
- Located in Minnesota Rules Chapter 1309. This rule chapter adopts by reference Chapters 2 through 10, 44, Section P2904, and Appendix K and Q from the 2018 International Residential Code (IRC) as amended in Minnesota.

EFFECTIVE DATE

- Minnesota Residential Code is effective March 31, 2020.



ASCE AMERICAN SOCIETY®
OF CIVIL ENGINEERS

<https://www.asce.org/welcome>



AMERICAN WOOD COUNCIL

<https://awc.org/about>



American Concrete Institute

<https://www.concrete.org/aboutaci.aspx>



<https://www.aisc.org/>



<https://masonrysociety.org/product/tms-402-602-2016/>



<https://www.gobrick.com/read-research/technical-notes>

ASCE 7 Minimum Design Loads and Associated Criteria for Buildings and Other Structures

NDS National Design Specifications for Wood Construction

Building Code Requirements for Structural Concrete (ACI 318)

AISC Steel Construction Manual

TMS 402/602-16 Building Code Requirements and Specification for Masonry Structures (ACI 530)

**NCMA
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CONCRETE MASONRY
ASSOCIATION

<https://ncma.org/resources/tek-solutions-center>



Minnesota Building Code Summary

Minnesota Building Code	IBC
Minnesota Residential Code	IRC
Minnesota Conservation Code for Existing Buildings	IEBC
Minnesota Manufactured Home Code	(Code of Federal Regulations CFR 3280)
Minnesota Storm Shelters	(FEMA 361)





CODE BOOK FACT SHEET

MINNESOTA MANUFACTURED HOME CODE

MINNESOTA MANUFACTURED HOME CODE

- Regulates the installation and sales of manufactured homes. Licensing of manufacturers, dealers and installers of manufactured homes built and installed to Code of Federal Regulations.
- Contains detailed regulations for installation and certification of manufactured homes, application forms to sell manufactured homes and record keeping of the sales and installations.
- Is contained in Minnesota Rules Chapter 1350 and the Code of Federal Regulations CFR 3280, 3282, 3285, 3286 and 3288.
- Manufactured homes are required only to be constructed to the Manufactured Home Code, CFR 3280 and 3282.

EFFECTIVE DATES

- Minnesota Rule 1350 became effective Jan. 4, 2010.
- CFR 3280 and 3282 became effective June 15, 1976.
- CFR 3288 became effective Feb. 8, 2008.
- CFR 3285 and 3286 became effective Jan. 1, 2009.

CODE BOOK

- Code of Federal Regulations is available at http://portal.hud.gov/hudportal/HUD?src=/program_offices/housing/rmra/mhs/csp.



(c) *Wind, snow, and roof loads -*

(1) *Wind loads - design requirements.*

- (i) *Standard wind loads (Zone I)*. When a manufactured home is not designed to resist the wind loads for high-wind areas (Zone II or Zone III) specified in [paragraph \(c\)\(1\)\(ii\)](#) of this section, the manufactured home and each of its wind-resisting parts and portions must be designed for **horizontal wind loads of not less than 15 psf** and a net uplift roof load of not less than 9 psf. The net uplift roof load must not be reduced by the dead load of the roof structure for the purposes of engineering design or structural load testing.

$$\text{Pressure} = .00256V^2$$

$$15 \text{ psf} = .00256 (\text{Velocity mph})^2$$

$$\text{Velocity} = 75 \text{ mph}$$





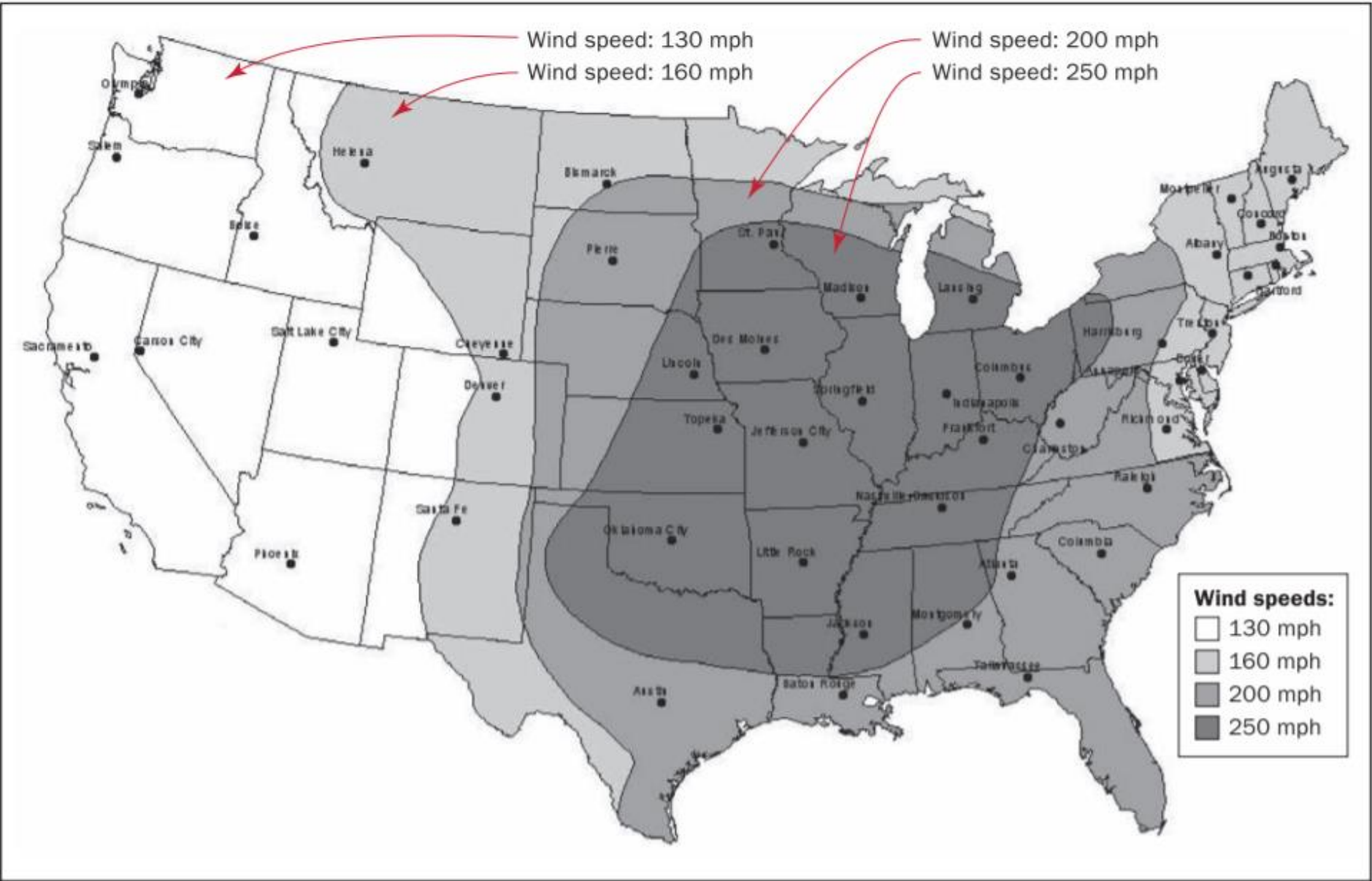
Safe Rooms for Tornadoes and Hurricanes

Guidance for Community and Residential Safe Rooms

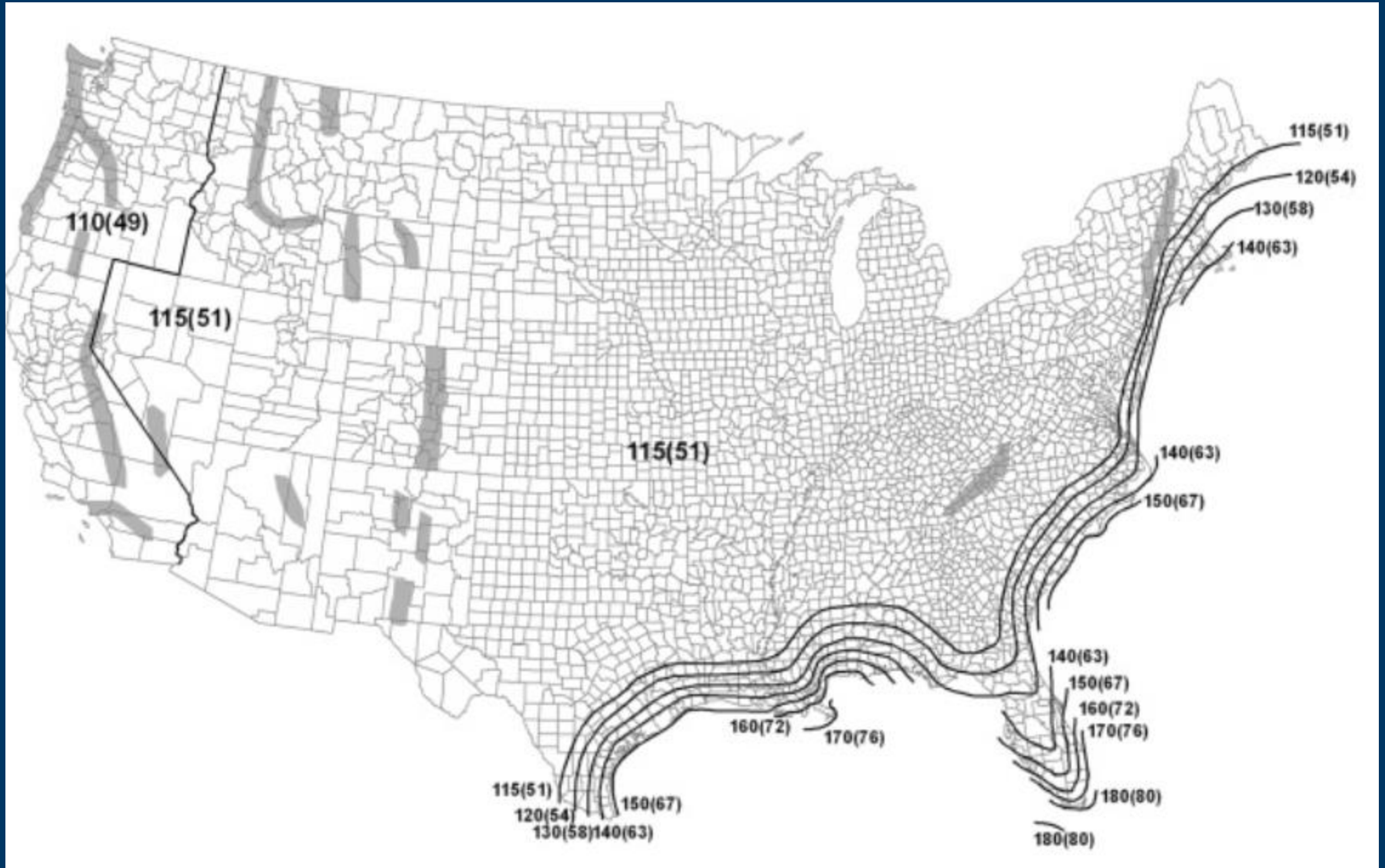
FEMA P-361, April 2021

Fourth Edition





2020 MINNESOTA BUILDING CODE (IBC)



https://codes.iccsafe.org/content/MNRC2020P1/chapter-3-building-planning#MNRC2020P1_Ch03_SecR301.2

