

# Navigating energy codes

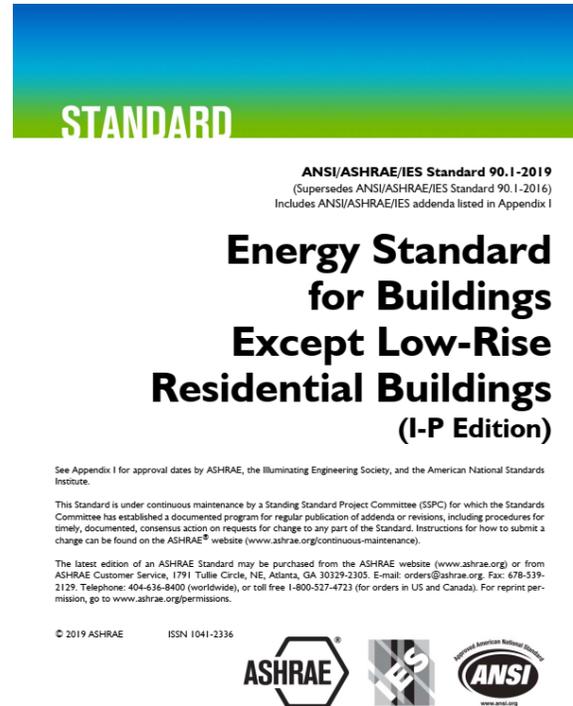
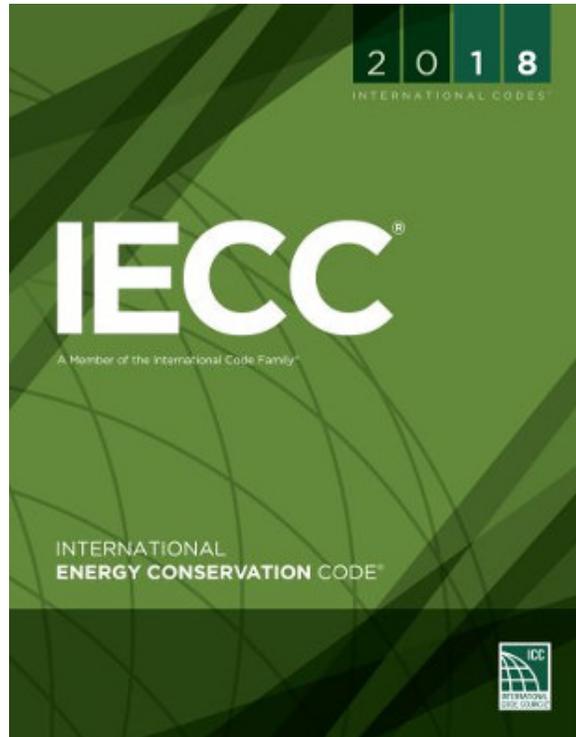
( with a focus on IECC)

# Code and standards are available for purchase or can be accessed online. Watch out for state or municipal amendments!

IECC

ASHRAE  
90.1

Illinois  
Amendments



## CHAPTER 1 [CE] SCOPE AND ADMINISTRATION

### SECTION C101 SCOPE AND GENERAL REQUIREMENTS

**C101.1 Title.** This code shall be known as the ~~International Energy Conservation Code of [NAME OF JURISDICTION]~~ and shall be cited as such. ~~Illinois Energy Conservation Code or "this Code" and shall mean:~~

~~With respect to the State facilities covered by 71 Ill. Adm. Code 600 Subpart B:~~

~~This Part, all additional requirements incorporated within Subpart B (including the 2018 International Energy Conservation Code, including all published errata, but excluding published supplements that encompass ASHRAE 90.1-2016), and any statutorily authorized adaptations to the incorporated standards adopted by CDB, are effective July 1, 2019.~~

~~With respect to the privately funded commercial facilities covered by 71 Ill. Adm. Code 600 Subpart C:~~

~~This Part, all additional requirements incorporated within Subpart C (including the 2018 International Energy Conservation Code, including all published errata, and excluding published supplements that encompass ASHRAE 90.1-2016), and any statutorily authorized adaptations to the incorporated standards adopted by CDB, are effective July 1, 2019.~~

**C101.1.2 Adoption.** The Board shall adopt amendments to this Code within 12 months after publication of changes to the International Energy Conservation Code. Any such update to this Code shall take effect within 6 months after it is adopted by the Board and shall apply to any new building or structure in this State for which a building permit application is received by a municipality or county, except as otherwise provided by the EEB Act.

**C101.1.3 Adaptation.** The Board may appropriately adapt the International Energy Conservation Code to apply to the particular economy, population, distribution, geography and climate of the State and construction within the State, consistent with the public policy objectives of the EEB Act.

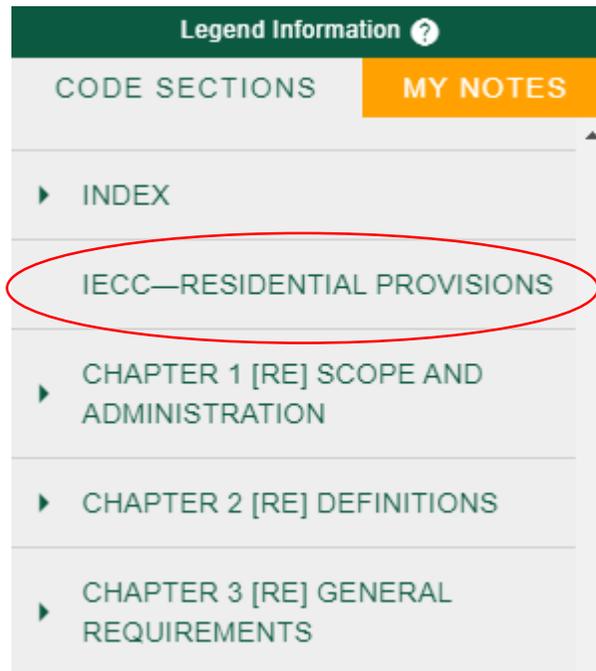
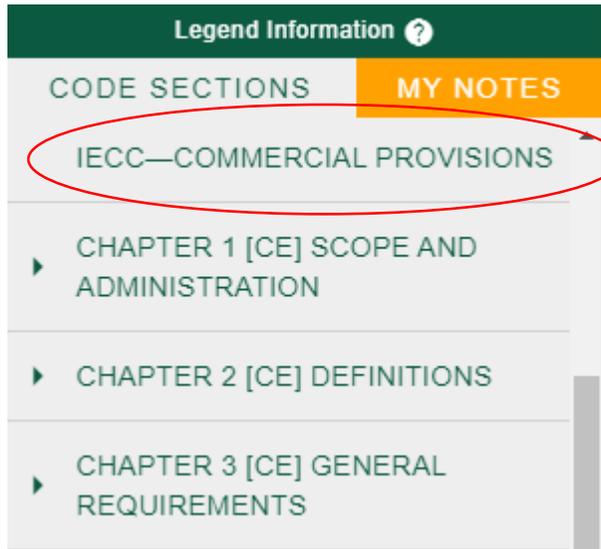
**C101.5 Compliance.** Residential buildings shall meet the provisions of IECC—Residential Provisions. Commercial buildings shall meet the provisions of IECC—Commercial Provisions—the Illinois Energy Conservation Code covered by 71 Ill. Adm. Code 600 Subpart C. The local authority having jurisdiction (AHJ) shall establish its own procedures for enforcement of the Illinois Energy Conservation Code. Minimum compliance shall be demonstrated by submission of:

1. Compliance forms published in the ASHRAE 90.1 User's Manual; or
2. Compliance Certificates generated by the U.S. Department of Energy's COMcheck™ Code compliance tool; or
3. Other comparable compliance materials that meet or exceed, as determined by the AHJ, the compliance forms published in the ASHRAE 90.1 User's Manual or the U.S. Department of Energy's COMcheck™ Code compliance tool; or
4. The seal of the architect/engineer as required by Section 14 of the Illinois Architectural Practice Act [225 ILCS 305], Section 12 of the Structural Engineering Licensing Act [225 ILCS 340] and Section 14 of the Illinois Professional Engineering Practice Act [225 ILCS 325].

# Navigating the IECC

The IECC is divided into Commercial Provisions and Residential Provisions.

The first three chapters of the Commercial and Residential provisions address scope, administration, definitions, and general requirements.



# Navigating the IECC

Chapter 3 contains a **climate zone map**: It's important to find out what climate zone your project is in! This will determine the requirements you must follow.

Legend Information ?

CODE SECTIONS MY NOTES

IECC—COMMERCIAL PROVISIONS

▶ CHAPTER 1 [CE] SCOPE AND ADMINISTRATION

▶ CHAPTER 2 [CE] DEFINITIONS

▶ CHAPTER 3 [CE] GENERAL REQUIREMENTS

Legend Information ?

CODE SECTIONS MY NOTES

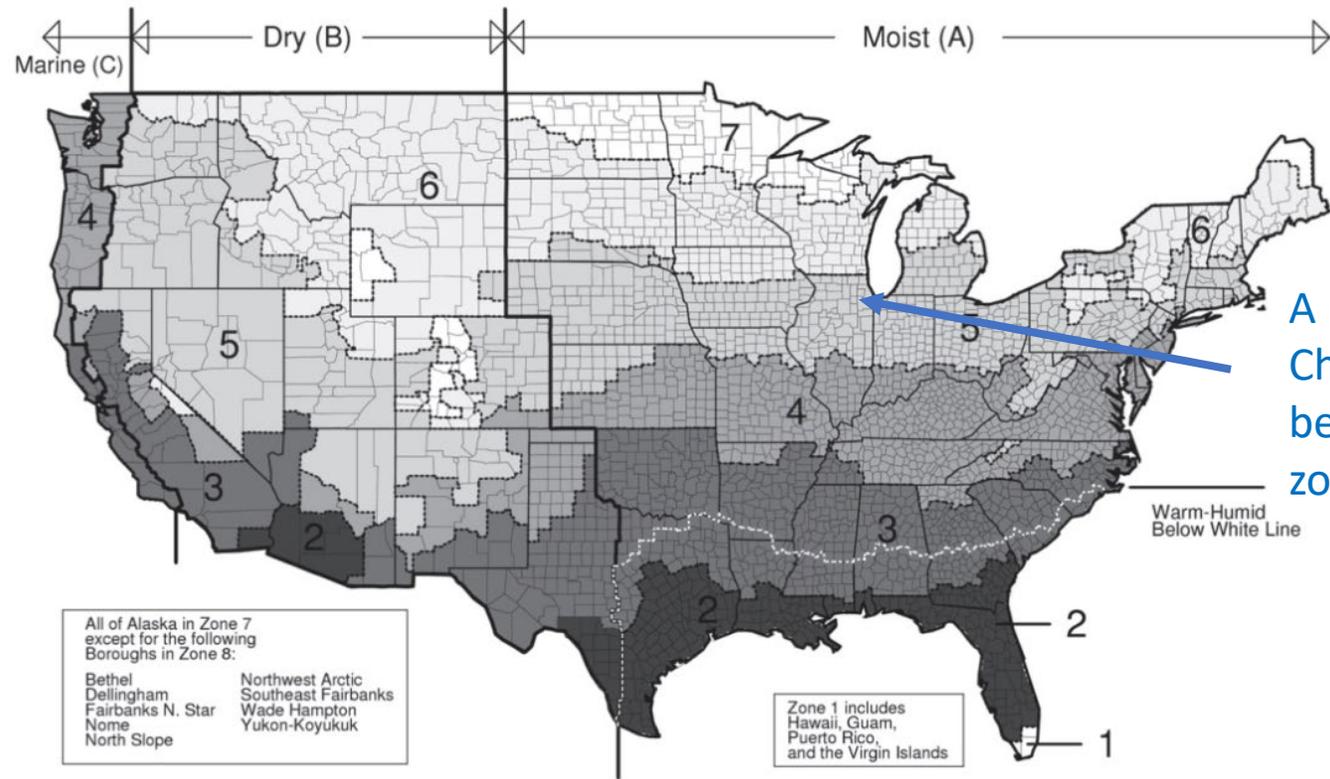
▶ INDEX

IECC—RESIDENTIAL PROVISIONS

▶ CHAPTER 1 [RE] SCOPE AND ADMINISTRATION

▶ CHAPTER 2 [RE] DEFINITIONS

▶ CHAPTER 3 [RE] GENERAL REQUIREMENTS



A project in Chicago will be in climate zone 5A

FIGURE C301.1CLIMATE ZONES

# Navigating the IECC

CODE SECTIONS	MY NOTES
▶ CHAPTER 4 [CE] COMMERCIAL ENERGY EFFICIENCY	
▶ SECTION C401 GENERAL	
▶ SECTION C402 BUILDING ENVELOPE REQUIREMENTS	
▶ SECTION C403 BUILDING MECHANICAL SYSTEMS	
▶ SECTION C404 SERVICE WATER HEATING (MANDATORY)	
▶ SECTION C405 ELECTRICAL POWER AND LIGHTING SYSTEMS	
▶ SECTION C406 ADDITIONAL EFFICIENCY PACKAGES	
▶ SECTION C407 TOTAL BUILDING PERFORMANCE	
▶ SECTION C408 MAINTENANCE INFORMATION AND SYSTEM COMMISSIONING	
▶ CHAPTER 5 [CE] EXISTING BUILDINGS	

CODE SECTIONS	MY NOTES
▶ CHAPTER 4 [RE] RESIDENTIAL ENERGY EFFICIENCY	
▶ SECTION R401 GENERAL	
▶ SECTION R402 BUILDING THERMAL ENVELOPE	
▶ SECTION R403 SYSTEMS	
▶ SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS	
▶ SECTION R405 SIMULATED PERFORMANCE ALTERNATIVE (PERFORMANCE)	
▶ SECTION R406 ENERGY RATING INDEX COMPLIANCE ALTERNATIVE	
▶ CHAPTER 5 [RE] EXISTING BUILDINGS	

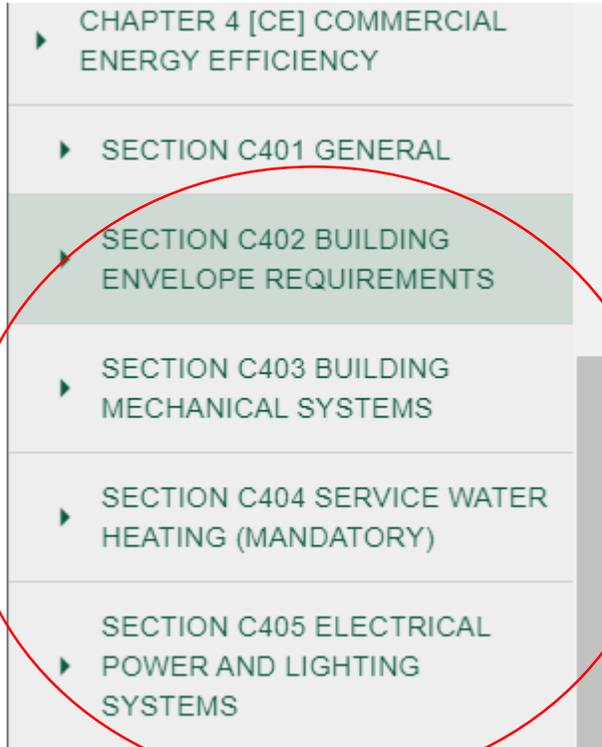
Chapter 4 contains the energy efficiency requirements, and chapter 5 addresses how the requirements apply to existing buildings.

# Navigating the IECC

If you want to look up a requirement for a project you are working on, first determine the category:

- Envelope (C402),
- Mechanical Systems (C403),
- Service Water Heating (C404), or
- Electrical Power & Lighting (C405)

**Example:** Want to know what the air barrier requirements are? Go to Section C402 Building Envelope Requirements. Scroll down until you find the section on air leakage (C402.5).



CHAPTER 4 [CE] COMMERCIAL ENERGY EFFICIENCY

- ▶ SECTION C401 GENERAL
- ▶ SECTION C402 BUILDING ENVELOPE REQUIREMENTS
- ▶ SECTION C403 BUILDING MECHANICAL SYSTEMS
- ▶ SECTION C404 SERVICE WATER HEATING (MANDATORY)
- ▶ SECTION C405 ELECTRICAL POWER AND LIGHTING SYSTEMS