

CODES, STANDARDS AND REGULATIONS

Scope: The specific regulations, codes and standards referenced in these Standards should not be considered as a complete listing of all requirements. Other authoritative guidelines should be referenced by the AE and applied consistent with good practice to achieve the required institutional quality. All new construction and remodeling work at the U of I must comply with the following requirements.

Definitions: Following are working definitions of the terms “regulations”, “codes” and “standards” as used within the *University of Illinois at Urbana-Champaign Facilities Standards*.

1. **Regulations:** Regulations are rules or statutory requirements of government agencies such as the Federal Government, the State of Illinois and the University of Illinois.
2. **Codes:** Codes are sets of rules and guidelines for design, prepared by a designated governmental and/or professional group, which are intended to protect public safety and welfare. Some Standards are recognized as Codes.
3. **Standards:** Standards are requirements set by authorities, custom or general consent and established as criteria by the U of I.
4. **Authority Having Jurisdiction (AHJ):** The U of I is the AHJ on Code interpretation. The Associate Director for Code Compliance and Fire Safety serves as the AHJ for the Urbana campus.

Regulations, Federally Mandated:

Americans with Disabilities Act (ADA)

DHHS:

*Title V: Handicapped Accessibility
Title IX: Regulations Prohibiting Sex Discrimination in Education*

EPA:

40 C.F.R. Chapter I: Protection of the Environment

40 C.F.R. 61 Subpart M: Asbestos NESHAP

40 C.F.R. 763 Subpart E: AHERA Asbestos in Schools

40 C.F.R. 745: Lead-Based Paint Poisoning Prevention in Certain Residential Structures

OSHA:

29 C.F.R. 1926: Construction Industry

29 C.F.R. 1910: General Industry

SHPO:

National Historic Preservation Act of 1966, as amended

USDOT:

49 C.F.R. Parts 100-185: HAZMAT

HUD:

24 C.F.R. 35: Lead-Based Paint Poisoning Prevention in Certain Residential Structures

Regulations, State Mandated:

IAG:

Illinois Steel Products Procurement Act, as amended (Illinois Revised Statutes, Ch. 30 ILCS 565, 1 - 7)

IDOL:

Safety Glazing Materials Act, as amended, with interpretive statement (Illinois Revised Statutes, Ch. 111 ½, par. 3101 et. seq.)

Ramp at All New or Reconstructed Curbs for Persons Using Wheelchairs (Illinois Revised Statutes, Ch. 24) (Illinois Municipal Code, sec. 11-80-11, Public Act 78-322, as amended)

Environmental Barriers Act, as amended (Illinois Revised Statutes, Ch. 111 ½, par. 3701 et. seq.) (Coordinate with Illinois Accessibility Code.)

IDPH:

*Illinois State Plumbing Code
Cir. 19.000, Retail Food Store Sanitation
Cir. 19.001, Food Service Sanitation*

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Cir. 4.102, Minimum Sanitary Requirements for Design and Operation of Swimming Pools and Bathing Beaches
Lead Poisoning Prevention Act
Rules and Regulations for Recreation Areas
Hospital Licensing Act and Requirements Ambulatory Surgical Treatment Centers, Revised Rules, Regulations and Standards
Clinical Laboratories and Blood Banks, Rules and Regulations
Illinois Asbestos Abatement Act (Illinois Revised Statutes, Ch. 122, par. 1401 et seq.) Rules and Regulations for the Asbestos Abatement Act - Title 77, Ch. I, subCh. p., part 855
Lead Poisoning Prevention Act, as amended (Illinois Revised Statutes, Ch. 111 ½, par. 1301 et seq.) (For dwellings or dwelling units, as defined.)

IEPA:

Illinois Environmental Protection Act 415 ILCS 5
Illinois Recommended Standards for Sewage Work

IHPA:

Illinois State Agency Historic Resources Preservation Act (20 ILCS 3420/1 et seq.)
Rules for the Review of State Agency Undertakings (ILAC, Title 17, Chapter VI, Part 4180)

ILCS:

Elevator Safety and Regulation Act [225 ILCS 312/35]

OSFM:

Gasoline and Volatile Oils (Illinois Revised Statutes, Ch. 17 1/2, par. 31 et seq.)
Liquefied Petroleum Gases (Illinois Revised Statutes, Ch. 104, par. 119 et seq.)
Liquefied Petroleum Gas Containers (Illinois Revised Statutes, Ch. 104, par. 113 et seq.)
Boiler and Pressure Vessel Safety Act and Rules and Regulations (Illinois Revised Statutes, Ch. 127 1/2, par. 151 et seq.)

Tactile identification on Certain Elevators (Illinois Revised Statutes, Ch. 111 1/2, par. 3901 et seq.)
Installation of Elevators (Illinois Revised Statutes, Ch. 111 1/2 par. 4001 et seq.)
Illinois Rules and Regulations for Fire Prevention and Safety, as amended through 9 Ill. Reg. 10009 and as re-codified (Adopts the 2000 edition of NFPA 101(Life Safety Code).

IDRE:

Illinois Roofing Industry Licensing Act, as amended (Illinois Revised Statutes, Ch. 111, par. 7501 et seq.)

Life Cycle Cost Analysis (CDB Design and Construction Manual, 2009)

Clean Water Act (State of Illinois)

| *Illinois Energy Conservation Code*

Codes:

ASME BPVC – ASME Boiler and Pressure Vessel Code
ASME B31.1 - Power Piping B31.1 – 2012

CDB:

| *Illinois Accessibility Code*

Building Codes:

International Building Code, 2009
International Existing Building Code 2009
International Mechanical Code, 2009, except Section 510
International Fire Prevention Code 2009
International Plumbing Code, 2009(Chapter 11 only)
Illinois Energy Conservation Code
Illinois Plumbing Code
National Electric Code 2011

NFPA:

No. 101, Life Safety Code, 2000 edition

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NFPA 85: *Boiler and Combustion Systems Hazards Code, Current Edition: 2011*
NFPA 54: *National Fuel Gas Code, Current Edition: 2012*

Standards:

AAADM:

American Association of Automatic Door Manufacturers

AAN:

American Association of Nurserymen.

AAMA:

American Architectural Manufacturers Association (AAMA) 101: Appendix Dissimilar Materials.

ACGIH:

Industrial Ventilation

ACI:

Manual of Concrete Practice Standard 318-2005, Building Code Requirements for Structural Concrete

AGCI/ISPE:

Standard Specifications for Water and Sewer Main Construction in Illinois

AMCA 500 *Test Method for Louvers, Dampers and Shutters*

ANSI:

Standard Z358.1, 2004 Emergency Eyewash and Shower Equipment
ANSI/AIHA American National Standard for Laboratory Ventilation, ANSI Z 9.5
ANSI/INFOCOMM 1M-2009, Audio Coverage Uniformity in Enclosed Listening Areas.

ANSI/SDI A250.8-2003 (R2008)
Recommended Specifications for Standards Steel Doors and Frames

ANSI/TIA-569B *Commercial Building Standard for Telecommunications Pathways and Spaces*

ANSI/ASA S12.60-2002; *Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools*

ANSI/ASHRAE:

Standard 15, Safety Code for Mechanical Refrigeration

Standard 55, Thermal Environmental Conditions for Human Occupancy

Standard 62, Ventilation for Acceptable Indoor Air Quality

ANSI/NFPA 90A *Installation of Air Conditioning and Ventilating Systems*

ARI 890 – *Rating of Air Diffusers and Air Diffuser Assemblies*

ASCE:

Standard 7-05, Minimum Design Loads for Buildings and Other Structures

ASHRAE:

Standard 52.2, Method of Testing General Ventilation Air-Cleaning Devices

ASHRAE 70 Method of Testing for Rating the Air Flow Performance of Outlets and Inlets

AWWA:

Water and Sewer Main Construction

CPSC:

Architectural Glazing Materials (partially pre-empts *Illinois Safety Materials Glazing Act*, must coordinate)

IDOT:

Standard Specifications for Road and Bridge Construction

Manual of Uniform Traffic Control Devices for Streets and Highways

IHPA:

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Illinois Historic American Buildings Survey/Historic American Engineering Record Standards & Guidelines
Illinois Historic Preservation Agency Guidelines for Performing Archaeological Surveys
National Register of Historic Places Criteria for Evaluation
Secretary of Interior's Standards & Guidelines for Archaeology and Historic Preservation
Secretary of Interior's Standards for Treatment of Historic Properties & Guidelines for Preserving, Rehabilitating, Restoring and Reconstructing Historic Buildings

NIH:

Guide for the Care & Use of Laboratory Animals

NIA:

National Commercial and Industrial Insulation (NIA) Standards, Sixth Edition

NRC:

Prudent Practices in the Laboratory

OSHA:

29CFR 1920.151 Medical Services and First Aid

SMACNA:

IAQ Guidelines for Occupied Buildings Under Construction, 2nd edition
ANSI/SMACNA 008-2008
1035 - HVAC Duct Construction Standards - Metal and Flexible

The University of Illinois at Urbana-Champaign:

Facilities and Services Standards for Design and Construction