



# CITY OF EFFINGHAM, IL

## 2015 INTERNATIONAL BUILDING CODE AMENDMENTS

### CHAPTER 1 SCOPE AND ADMINISTRATION

**Passim.** Wherever the phrase “[name of jurisdiction]” or the word “jurisdiction” appears, they shall be deemed to refer to the City of Effingham, Illinois.

**Passim.** Wherever the phrase “*building official*” appears, it shall be deemed to refer to the City of Effingham Building Official, or his/her duly designated agent or agents.

**Passim.** Wherever any reference to “*ICC Electrical Code*” appears, it shall be replaced with the phrase “*(NFPA 70) National Electric Code, 2008 Edition, as adopted by the City of Effingham, Illinois.*”

**Passim.** Wherever any reference to “*International Energy Conservation Code (IECC)*” appears, it shall be replaced with the phrase “*Illinois Energy Conservation Code (IECC), as may be amended from time to time by the State of Illinois.*”

**Passim.** Wherever any reference to “*ICC Plumbing Code*” appears, it shall be replaced with the phrase “*Illinois Plumbing Code, as may be amended from time to time by the State of Illinois.*”

**Passim.** Wherever any reference to “*International Pool & Spa Code*” appears, it shall be replaced with the phrase “*applicable regulations contained within Appendix B of the Municipal Code of Effingham, Illinois.*”

**Amend:**     **101.1 Title.** These regulations shall be known as the Building Code of the City of Effingham, Illinois, hereinafter referred to as either “this code” or “IBC.”

**Amend:**     **101.4 Referenced codes.** The other codes listed in Sections 101.4.1 through 101.4.6 and referenced elsewhere in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference.

**Amend:**     **101.4.3 Plumbing.** The provisions of the *Illinois Plumbing Code* shall apply to the installation, *alteration, repair,* and replacement of plumbing systems, including equipment, appliances, fixtures, fittings, and appurtenances, and where connected to a water or sewage system, and all aspects of a medical gas system.

**Amend:**     **101.4.4 Electrical.** The provisions of the NFPA 70, National Electrical Code, 2008 Edition, as

adopted by the City of Effingham, Illinois, shall apply to the installation, *alteration, repair*, and replacement of electrical systems, including equipment, appliances, fixtures, fittings, and appurtenances thereto.

**Delete:**        **101.4.6 Energy.**

**Delete:**        **Section 101.4.7.**

**Amend:**        **102.1 General.** Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall be applicable. Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive (as determined by the *building official*) shall govern.

**Amend:**        **102.6 Existing structures.** The legal occupancy of any *structure* existing on the date of adoption of this code shall be permitted to continue without change, except as otherwise provided within the Chapter 12 of the Municipal Code of Effingham, Illinois (Nuisance regulations), Appendix B of the Municipal Code of Effingham, Illinois (Zoning regulations), and except as otherwise specifically provided in this code, the *International Fire Code*, or the *NFPA Life Safety Code*, as adopted by the City of Effingham, Illinois. Notwithstanding the foregoing, or any other contrary provision in this code, if a *structure* is increased in floor area or the number of stories, the entire *structure* shall be made to conform to the requirements of this code with respect to means of egress, fire protection, light, and ventilations.

**Amend:**        **102.6.2 Buildings previously occupied.** The legal occupancy of any building existing on the date of adoption of this code shall be permitted to continue without change, except as otherwise provided within the Chapter 12 of the Municipal Code of Effingham, Illinois (Nuisance regulations), Appendix B of the Municipal Code of Effingham, Illinois (Zoning regulations), and except as otherwise specifically provided in this code, the *International Fire Code*, or the *NFPA Life Safety Code*, as adopted by the City of Effingham, Illinois, or as deemed necessary by the *building official* for the general safety and welfare of the occupants and the public.

**Add:**         **102.7 Continuation of unlawful use.** The continuation of occupancy or use of a building, *structure*, or part thereof, contrary to the provisions of this code, shall be deemed a violation and be subject to the penalties prescribed in Section 114.4, as well as the provisions contained within Section 114.5.

**Add:**         **102.8 Other Regulations.** When the provision of this code herein specified for the health, safety, and welfare are more restrictive than other regulations, this code shall control, provided, however, in any case, the most restrictive requirements (as determined by the *building official*) of either this code or other regulations shall apply whenever a conflict exists. Nothing herein shall be construed as authorizing any use or construction not authorized by the zoning, subdivision, or

other rules, regulations, ordinances, and resolutions of the City of Effingham, and the mention of uses and building types, sizes, or configurations in this code which are not permitted by other rules, regulations, ordinances, and resolutions of the City shall not be given any force, effect, or meaning within the City.

**Amend:** **103.1 Creation of enforcement agency.** The City of Effingham Building Official's Office and the Building Official in charge thereof shall be known as the *building official*.

**Amend:** **104.2.1. Determination of substantially improved or substantially damaged existing buildings and structures in flood hazard areas.** All buildings and *structures* located or to be located in a flood hazard area shall comply with and fully conform to the requirements contained within Chapter 11 of the Municipal Code of Effingham, Illinois, as amended from time to time.

**Amend:** **Section 104.6 Right of Entry.** Subject to the provisions in this Section, in the discharge of his or her duties, the *building official* or such *building official's* representative shall have the authority to enter, at any reasonable hour, any building, *structure*, or premise in the *jurisdiction* to enforce the provisions of this code. Except where the *owner*, operator, or occupant refuses entry, an order of court, subpoena, or other legal process shall not be necessary to any entry, examination, or survey in connection with the inspections and duties of the *building official* under this code. Whenever the *building official* or such *building official's* representative, after presentation of proper credentials and request for entry to inspect, however, is refused access to any building, *structure*, dwelling, dwelling unit, or rooming unit, the *building official* is authorized to petition any judge for the issuance of a search warrant authorizing the inspection of such building, *structure*, dwelling, *dwelling unit*, or rooming unit, for the making such inspections as shall be necessary to the enforcement of the provisions on this code.

**Amend:** **104.10.1. Flood hazard areas.** The *building official* shall not grant modifications to any provisions required in *flood hazard areas*, as established by Section 1612.3, unless a determination has been made that:

1. A showing of good and sufficient cause that the unique characteristics of the size, configuration or topography of the site render the elevation standards of Section 1612 inappropriate;
2. A determination that failure to grant the variance would result in exceptional hardship by rendering the lot undevelopable;
3. A determination that the granting of a variance will not result in increased flood heights, additional threats to public safety, extraordinary public expense, cause fraud on or victimization of the public, or conflict with existing laws or ordinances;

4. A determination that the variance is the minimum necessary to afford relief, considering the flood hazard;
5. Submission to the applicant of written notice specifying the difference between the *design flood elevation* and the elevation to which the building is to be built, stating that the cost of flood insurance will be commensurate with the increased risk resulting from the reduced floor elevation, and stating that construction below the *design flood elevation* increases risks to life and property; and,
6. A determination that all requirements of Chapter 11 of the Municipal Code of Effingham, Illinois, as amended from time to time, are met.

**Delete:**        **Section 105.1.1.**

**Delete:**        **Section 105.1.2.**

**Amend:**        **105.2 Work exempt from permit.** Exemptions from *permit* requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this *jurisdiction*. *Permits* shall not be required for the following:

**Building:**

1. One-story detached *accessory structures* used as tool and storage sheds, playhouses and similar uses, provided the floor area is not greater than 120 square feet (11 m<sup>2</sup>).
2. Fences not over eight (8) feet (2438 mm) high.
3. Oil derricks.
4. Retaining walls that are not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or IIIA liquids.
5. Water tanks supported directly on *grade* if the capacity is not greater than 5,000 gallons (18925 L) and the ratio of height to diameter or width is not greater than 2:1.
6. Sidewalks and driveways not more than 30 inches (762 mm) above adjacent *grade*, and not over any basement or *story* below and are not part of an accessible route and are not located on public right of way or easements.

7. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
8. Temporary motion picture, television and theater stage sets and scenery.
9. Prefabricated swimming pools accessory to a Group R-3 occupancy that are less than 24 inches (610 mm) deep, are not greater than 5,000 gallons (18925 L) and are installed entirely above ground.
10. Shade cloth structures constructed for nursery or agricultural purposes, not including service systems.
11. Swings and other playground equipment accessory to detached one- and two-family dwelling.
12. Window awnings in Group R-3 and U occupancies, supported by an *exterior wall* that do not project more than 54 inches (1372 mm) from the *exterior wall* and do not require additional support.
13. Non-fixed and movable fixtures, cases, racks, counters and partitions not over 5 ft. 9 inches (1753 mm) in height.

**Electrical:**

**Repairs and maintenance:** Minor repair work, including the replacement of lamps or the connection of *approved* portable electrical equipment to *approved* permanently installed receptacles.

**Radio and television transmitting stations:** The provisions of this code shall not apply to electrical equipment used for radio and television transmissions, but do apply to equipment and wiring for a power supply and the installations of towers and antennas.

**Temporary testing systems:** A *permit* shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

**Gas:**

1. Portable heating appliance.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.

**Mechanical:**

1. Portable heating appliance.
2. Portable ventilation equipment.
3. Portable cooling unit.
4. Steam, hot or chilled water piping within any heating or cooling equipment regulated by this code.
5. Replacement of any part that does not alter its approval or make it unsafe.
6. Portable evaporative cooler.
7. Self-contained refrigeration system containing 10 pounds (4.54 kg) or less of refrigerant and actuated by motors of 1 horsepower (0.75 kW) or less.

**Plumbing:**

1. The stopping of leaks in drains, water, soil, waste or vent pipe, provided, however, that if any concealed trap, drain pipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a *permit* shall be obtained and inspection made as may be required by the Illinois Plumbing Code, as adopted by the City.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

**Delete:**        **Section 105.2.1.**

**Delete:**        **Section 105.2.2.**

**Delete:**        **Section 105.2.3.**

**Amend:**        **105.3 Application for permit.** To obtain a *permit*, the applicant shall first file an application therefor in writing on a form furnished by the Building Official's Office for that purpose. Such application shall:

1. Identify and describe the work to be covered by the *permit* for which application is made.

2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building or work.
3. Indicate the use and occupancy for which the proposed work is intended.
4. Be accompanied by *construction documents* and other information as required in Section 107.
5. State the valuation of the proposed work.
6. Be signed by the applicant, or the applicant's authorized agent.
7. Give such other data and information as required by the *building official*.

**Amend:** **105.3.2 Time limitation of application and extensions.** An application for a *permit* for any proposed work shall be deemed to have been abandoned 180 days after the date of filing, unless such application has been pursued in good faith or a *permit* has been issued; except that the building official is authorized to grant one or more extensions of time for additional periods not exceeding 90 days each. The extension shall be requested in writing and justifiable cause demonstrated. If the *building official* grants a first extension, for up to 90 days, there will not be a fee assessed. In the event the *building official* grants a second extension, for up to 90 days, a fee of ½ of the original cost of the *permit* shall be assessed. Notwithstanding contained herein to the contrary, if a *permit* has not been granted within 360 days after the date of filing of the application, a new *permit* application shall be filed and the full filing fee shall be assessed.

**Amend:** **105.5 Expiration.** Every *permit* issued shall become invalid unless the work on the site authorized by such *permit* is completed within 18 months after its issuance, or if the work authorized on the site by such *permit* is suspended or abandoned for a period of 180 days after the time the work is commenced. The building official is authorized to grant, in writing, one or more extensions of time, for periods not more than 180 days each. The extension shall be requested in writing and justifiable cause demonstrated.

**Add:** **105.5.1 Permit Duration Extension.** A *permit* may be extended for one additional six (6) month period upon application of the *permit* applicant, and the payment of one hundred dollars (\$100.00) *permit* extension fee. In the event that all construction has not been completed within the eighteen (18) month period, or as may be extended to twenty-four (24) months in accordance with this section, no further construction shall occur, until the *permit* applicant shall obtain a new *permit* and pay all fees associated therewith. It is the purpose of this section to provide a reasonable time for the construction activities to occur, but to provide an outside limit to avoid

unduly prolonging the disturbing aspects that occur with construction and in particular the impact on people and properties within the immediate vicinities thereof.

**Amend:** **107.2.1. Information on construction documents.** *Construction documents* shall be dimensioned and drawn upon suitable material. Electronic media documents are permitted to be submitted where *approved* by the *building official*. *Construction documents* shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the *building official*. *Construction documents* submitted to the building official should be sufficient to clearly show the project in its entirety with emphasis on the following:

1. Scope of the work;
2. Building code compliance;
3. Structural integrity;
4. Life safety assurance;
5. Architectural and environmental accessibility.

The minimum required technical submissions depend upon the size, nature and complexity of the project; however, the following is the minimum standard recommended before the building official should begin the plan check review. *Additions* and remodeling projects and other buildings or *structures* may not require all of the following components for plan submittal and review for *permit*.

1. Drawings (Some of the data may be included in other technical submissions such as specifications):
  - a. Cover Sheet(s):
    - i. Project shall be identified;
    - ii. Project address and a location map shall be shown;
    - iii. The Professional Design Firm(s) shall be identified;
    - iv. The principal design professional(s) for each Professional Design Firm shall be identified;
    - v. All applicable codes utilized on the project shall be listed;
    - vi. Design criteria list shall include, but not be limited to:
      1. Occupancy group;
      2. Type of construction;
      3. Location of property;



4. Seismic zone;
  5. Square footage and allowable area;
  6. Fire sprinklers (when utilized);
  7. Height and number of stories;
  8. Occupant load(s); and,
  9. Parking-loading requirements;
- vii. Index of all drawings shall be included
- viii. Seal(s) and signature(s) of responsible design professional(s) and indication as to which of the indexed drawings the seal applies, the expiration date of the license, and registration number of the Professional Design Firm, if applicable, shall be affixed; and,
- ix. Other items required by the *building official* shall be included.
- b. Site Plan: Show proposed new *structure* or addition and any existing buildings and *structures*, all property lines with dimensions. If required by Appendix B of the Municipal Code of Effingham, Illinois, as amended from time to time, more information will be required on the Site Plan.
- c. Foundation Plan: Shall depict all foundations and footings, indicate size, location, thick stresses, materials and strengths and locate reinforcement. Show all imbedded anchoring. Provide allowable design pressures or data utilized in design of footings of building supports.
- d. Floor Plan: Show all floors including *basements*. Show all rooms, with their use, finishes, overall dimensions and location of all structural elements and openings. Show all doors and windows, including door and window schedules, if applicable. All fire assemblies and area and occupancy separations shall be shown.
- e. Means of egress: The *construction documents* shall show in sufficient detail the location, construction size and character of all portions of the means of egress in compliance with the provisions of this code. Include number of occupants to be accommodated on every floor, and in all rooms and spaces.
- f. Floor and Roof Framing Plans: Show all structural members, their size, methods of attachment, location and materials for floors and roofs. Structural design shall consider static and dynamic loading and wind and seismic forces where applicable. All design loads and allowable stresses utilized shall be indicated. Show all roof and deck drainage systems.

- g. Fire Protection: Show all fire protection of structural members and architectural elements and show, if applicable, industry recognized fire ratings assemblies.
  - h. Exterior Elevations: Show all views, all dimensions, referenced elevation, and all openings. Identify all material and, where applicable, show the lateral bracing system. Show *exterior wall* opening analysis per floor.
  - i. Building Sections and Wall Sections: Show materials of construction and their assemblies, pertinent dimensions and insulation requirements.
  - j. Mechanical System: Show the entire mechanical system including all equipment and devices, their sizes, supports, piping systems, duct work and sizes and temperature control systems. Indicate fire and/or smoke dampers where required.
  - k. Plumbing System: Show all fixtures, piping, slopes, materials and sizes. Show point of connection to public utilities.
  - l. Fire Protection System Shop Drawings: Shop drawings for the fire protection system(s) shall be submitted to indicate conformance with this code and *construction documents* and shall be *approved* prior to start of system installation. Shop drawings shall contain all information as required by the referenced installation standards in Chapter 9.
  - m. Reflected Ceiling Plan: Show all electrical fixtures, diffusers and grills, sprinkler heads and other required devices as applicable.
  - n. Electrical System: Show all power and lighting plans including all electrical fixtures and devices (interior & exterior and site), wiring sizes, circuiting, grounding, panel schedules and single line diagrams. Show point of connection to utility and all single-station smoke and carbon monoxide detectors and exit and emergency lighting as applicable.
  - o. Utility Openings: Show all utility openings in floors, walls and roofs, including *fireblocking*.
2. Structural Calculations: Where required by the *building official*, provide structural calculations for the entire structural system of the project for both vertical and lateral loads.
  3. Specifications: Either on the drawings or in booklet form, further define components, materials, standards of construction, quality and all pertinent equipment.
  4. Addenda & Changes: Notification shall be provided to the *building official* of any and all changes throughout the project. Revised plans, calculations and other appropriate documents shall be provided. All revisions shall be identified on the submissions.
  5. Permit (As Built) Drawings: The design professional, *owner*, or contractor shall provide the *building official* an electronic copy of the drawings at the completion of the project. This set of plans will be the set of plans the *structure* was built from as prepared with the changes throughout construction including all addendums and plan changes.

**Amend:** **109.5 Application and Permit Fees.** On buildings, *structures*, electrical, gas, mechanical, and plumbing systems or *alterations* requiring a *permit*, all fees for any application and *permit* pursuant to *this code* are as set forth in the City's Building, Electrical, and Plumbing Comprehensive Fee Schedule. The payment of the fee for the construction, *alteration*, removal or demolition for work done in connection to or concurrently with the work done in connection to or concurrently with the work authorized by a building *permit* shall not relieve the applicant or holder of the *permit* from the payment of other fees that are prescribed by law.

If any *person* causes any erection, construction, repair, alteration, removal or excavation to be made in or for any building, *structure* or any part thereof, without first obtaining the *permit* or *permit* required therefor by any of the provisions of this code, the fee for such *permit* or *permit* shall be equal to twice the sum set forth by the City of Effingham. Notwithstanding and in addition to the foregoing, any *person* who causes any erection, construction, repair, alteration, removal or excavation to be made in or for any building, *structure*, or any part thereof, without first obtaining the requisite *permit(s)* shall be subject to any fines or penalties as adopted by the City of Effingham.

**Amend:** **109.6 Refunds.** No refund shall be made in the event of revocation of a *permit* or abandonment or discontinuance of any *permit*.

**Amend:** **114.4 Violation penalties.** Any *person* who shall violate a provision of this code or shall fail to comply with any of the requirements thereof or who shall erect, construct, alter, or repair a building or *structure* in violation of an *approved* plan or directive of the *building official*, or of a *permit* or certificate issued under the provisions of this Code, shall be subject to a civil fine of not less than Two Hundred Fifty Dollars (\$250.00) nor more than Seven Hundred Fifty Dollars (\$750.00) for each offense. A separate offense shall be deemed to be committed on each day during or on which a violation occurs or continues. Any such *person* may be further ordered to pay restitution to the City of Effingham for any costs incurred by the City of Effingham as a result of the violation of this code, excluding attorney fees incurred in the prosecution of such violation. Notwithstanding any provision in this code to the contrary, wherever any statute or public act of the General Assembly shall limit the amount of any fine or penalty, the fine or penalty imposed by this code shall be the maximum amount permitted by such statute or public act. Every act or omission of whatsoever nature constituting a violation of any provision of this code, by any officer, director, manager or other agent or employee of any *person*, shall be deemed and held to be the act of such *person*, and the *person* shall be punishable in the same manner as if the act or omission had been done or omitted by him or her personally.

**Add:** **114.5. Abatement of violation:** The imposition of any fee, fine, or penalty prescribed herein shall not preclude the City Attorney of the *jurisdiction* from instituting appropriate action to prevent unlawful construction or to restrain, correct, or abate a violation, or to prevent illegal



occupancy of a building, *structure*, or premises, or to stop an illegal act, business conduct, or occupancy of a building or *structure* on or about any premises.

**Amend:** **115.3 Unlawful continuance.** Any *person* who shall continue any work in a building, *structure*, or on a premises, after having been served with a stop work order, except such work as that *person* is directed to perform to remove a violation or unsafe condition, shall be subject to the penalties prescribed in Section 114.4, as well as the provisions contained within Section 114.5.

**Delete:** **Section 116.2.**

**CHAPTER 4  
SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY**

**Add:** **402.9. Rapid entry key lock box system.** Where access to or within a building, *structure*, or any portion thereof, is restricted because of secured openings, or where immediate access is necessary for life-saving or fire-fighting purposes, the fire code official is authorized to require a rapid entry key lock box to be installed in an *approved* location, and such rapid entry key lock box system shall comply with the regulations as contained within Section 10-10 of the Municipal Code of Effingham, Illinois, as amended from time to time.

**CHAPTER 5  
GENERAL BUILDING HEIGHTS AND AREAS**

**AMEND:** **Table 509. Incidental uses.**

**TABLE 509  
INCIDENTAL USES**

| ROOM OR AREA  | SEPARATION AND/OR PROTECTION  |
|---|---|
| *Furnace room with any gas-fired appliance  | 1 hour or provide automatic fire-extinguishing system                                     |
| *Rooms with boilers   | 1 hour or provide automatic fire-extinguishing system                                     |
| Refrigerant machinery room  | 1 hour or provide automatic sprinkler system  |
| Hydrogen fuel gas rooms, not classified as Group H                                | 1 hour in Group B, F, M, S and U occupancies: 2 hours in Group A, E, I and R occupancies. |
| *Incinerator rooms  | 2 hours or provide automatic sprinkler system   |
| Paint shops, not classified as Group H, located in occupancies other than Group F | 1 hour or provide automatic sprinkler system  |
| In Group E occupancies, laboratories and vocational                               | 1 hour or provide automatic sprinkler system  |



|  |   |
|--|---|
| shops not classified as Group H  |   |
| In Group I-2 occupancies, laboratories not classified as Group H   | 1 hour or provide automatic sprinkler system  |
| In ambulatory care facilities, laboratories not classified as Group H  | 1 hour or provide automatic sprinkler system  |
| Laundry rooms over 100 square feet   | 1 hour or provide automatic sprinkler system  |
| In Group I-2, laundry rooms over 100 square feet   | 1 hour  |
| Group I-3 cells and Group I-2 patient rooms equipped with padded surfaces  | 1 hour  |
| In Group I-2, physical plant maintenance shops   | 1 hour  |
| In ambulatory care facilities or Group I-2 occupancies, waste and linen collection rooms with containers that have an aggregate volume or 10 cubic feet or greater   | 1 hour  |
| In other than ambulatory care facilities and Group I-2 occupancies, waste and linen collection rooms over 100 square feet  | 1 hour or provide automatic sprinkler system  |
| In ambulatory care facilities or Group I-2 occupancies, storage rooms greater than 100 square feet   | 1 hour  |
| Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons for flooded lead-acid, nickel cadmium or VRLA, or more than 1,000 pounds for lithium-ion and lithium metal polymer used for facility standby power or uninterruptable power supplies | 1 hour in Group B, F, M, S and U occupancies: 2 hours in Group A, E, I and R occupancies. |

Exception 1: Furnaces installed in *attic* spaces shall be provided with an *automatic sprinkler system* that shall protect the area of the furnace including a three (3) foot area surrounding the furnace. Separation walls are not required

\* No storage of any kind will be allowed in any gas fired furnace, boiler or incinerator room

## CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES

**Amend:** **704.13.5 Finish condition.** The finished condition of SFRM applied to structural members or assemblies shall not, upon complete drying or curing, exhibit cracks, voids, spalls, delamination or any exposure of the substrate. Surface irregularities of SFRM shall be deemed acceptable. The SFRM shall be manufacturer approved for weather, humidity and exposure conditions encountered in the areas applied.

**Add:** **711.3.3 Protection.** Nonfire-resistance-rated roof or floor assemblies constructed of engineered joists of combustible construction shall be protected with minimum 5/8 inch gypsum sheathing

or a sprinkler system.

**Amend:** **714.4.2 Membrane penetrations.** Penetrations of membranes that are part of a *horizontal assembly* shall comply with Section 714.4.1.1 or 714.4.1.2. Where floor/ceiling assemblies are required to have a *fire-resistance rating*, recessed fixtures shall be installed such that the required *fire resistance* will not be reduced.

**Exceptions:**

1. *Membrane penetrations* by steel, ferrous or copper conduits, pipes, tubes or vents, or concrete or masonry items where the *annular space* is protected either in accordance with Section 714.4.1 or to prevent the free passage of flame and the products of combustion. The aggregate area of the openings through the membrane shall not exceed 100 square inches (64,500 mm<sup>2</sup>) in any 100 square feet (9.3 m<sup>2</sup>) of ceiling area in assemblies tested without penetrations.
2. *Ceiling membrane penetrations* of maximum 2-hour *horizontal assemblies* by steel electrical boxes that do not exceed 16 square inches (10,323 mm<sup>2</sup>) in area, provided the aggregate area of such penetrations does not exceed 100 square inches (64,500 mm<sup>2</sup>) in any 100 square feet (9.29 m<sup>2</sup>) of ceiling area, and the *annular space* between the ceiling membrane and the box does not exceed 1/8 inch (3.2 mm).
3. *Membrane penetrations* by electrical boxes of any size or type that have been listed as part of an opening protective material system for use in *horizontal assemblies* and are installed in accordance with the instructions included in the listing.
4. *Membrane penetrations* by *listed* electrical boxes of any material provided such boxes have been tested for use in fire-resistance-rated assemblies and are installed in accordance with the instructions included in the listing. The *annular space* between the ceiling membrane and the box shall not exceed 1/8 inch (3.2 mm) unless *listed* otherwise.
5. The *annular space* created by the penetration of a fire sprinkler, provided it is covered by a metal escutcheon plate.
6. Noncombustible items that are cast into concrete building elements and that do not penetrate both top and bottom surfaces of the element.
7. The ceiling membrane of a 1-hour fire-resistant-rated *horizontal assembly* is permitted to be interrupted with the single wood top plate of a wall assembly that is sheathed with fire code gypsum wallboard. The ceiling membrane of a 2-hour fire-resistant-rated *horizontal assembly* is permitted to be interrupted with a double wood top plate of a wall assembly that

is sheathed with fire code gypsum wallboard.

**Amend:** **718.2 Fireblocking.** In combustible construction, *fireblocking* shall be installed to cut off concealed draft openings (both vertical and horizontal) and shall form an effective barrier between floors, between a top *story* and roof or *attic* space. *Fireblocking* shall be installed in the locations specified in Sections 718.2.2 through 718.2.7. In noncombustible construction, *fireblocking* shall consist of noncombustible materials as specified in Section 703.5 to form an effective barrier between floors and between a top *story* and a roof or *attic* space.

## CHAPTER 9 FIRE PROTECTION SYSTEMS

**Amend:** **901.1 Scope.** The provisions of this chapter shall specify where *fire protection systems* are required and shall apply to the design, installation, and operation of *fire protection systems*. See also the amendments to the International Fire Code for additional *fire protection system* requirements. In the event of a conflict, the most rigid requirements of either this code or the International Fire Code as adopted by the City shall apply.

**Amend:** **903.2.8 Group R.** An *automatic sprinkler system* installed in accordance with Section 903.3 shall be provided throughout all buildings with a Group R *fire area*.

**Exception:** Buildings used solely as Apartment houses (Use Group R-2) that meet all of the following:

1. Not more than 2 stories;
2. Does not have a basement; and,
3. Not more than eight (8) *dwelling units* per *fire area*.

**Amend:** **903.3.1.1.1 Exempt locations.** Automatic sprinklers shall not be required in the following rooms or areas where such rooms or areas are protected with an *approved* automatic fire detection system in accordance with Section 907.2 that will respond to visible or invisible particles of combustion. Sprinklers shall not be omitted from a room merely because it is damp, of *fire-resistance-rated* construction, or contains electrical equipment.

1. A room where the application of water, or flame and water, constitutes a serious life or fire hazard.
2. A room or space where sprinklers are considered undesirable because of the nature of the contents, where *approved* by the fire code official.
3. Generator and transformer rooms separated from the remainder of the building by walls and



floor/ceiling or roof/ceiling assemblies having a *fire-resistance-rating* of not less than 2 hours. Storage is prohibited in such rooms.

4. Rooms or areas that are of noncombustible construction with wholly noncombustible contents.
5. Fire service access elevator machine rooms and machinery spaces.
6. Machine rooms, machinery spaces, control rooms, and control spaces associated with occupant evacuation elevators designed in accordance with Section 3008.

**Amend:** **903.3.1.2.1. Balconies and Decks.** Sprinkler protection shall be provided for exterior balconies, decks, and ground floor patios of *dwelling units* and *sleeping units* where the building is of Type V construction, provided there is a roof or deck above. Sidewall sprinklers that are used to protect such areas shall be permitted to be located such that their deflectors are within 1 inch (25 mm) to 6 inches (152 mm) below the structural members and a maximum distance of 14 inches (356 mm) below the deck of the exterior balconies and decks that are constructed of open wood joist construction.

**Exception:**

Exterior balconies, decks, ground floor patios, and any roof area above said balconies, decks, or patios, that are all made of wholly noncombustible construction.

**Add:** **903.3.8.1.1 Existing buildings.** Limited area sprinkler systems shall not exceed 20 sprinklers in any single *fire area* in any existing building.

## CHAPTER 10 MEANS OF EGRESS

**Amend:** **1006.3.2 Single exits.** Every occupied story shall be provided with no less than two approved independent exits.

**Exceptions:** A single exit is acceptable under any one of the following conditions:

1. Use groups B, M, S, F are permitted to be served by a single exit when three stories or less, above grade, and a maximum of 3,500 square feet per floor.
2. Use groups B, M, S, F are permitted to be served by a single exit for up to five stories, above grade, and a maximum of 3,500 square feet per floor, when one of the following criteria is met:



- A. Where the building is equipped throughout with an automatic fire suppression system and an automatic fire alarm system with smoke detectors located in all corridors, lobbies and common areas; or,
  - B. Where the building is provided with an automatic fire alarm system and the exit is a smoke proof enclosure or pressurized stairway; or,
  - C. Where an existing fire escape conforming to Section 1104.16 is provided in addition to the single exit.
3. In stories that require only one exit in accordance with the requirements of Section 1006.
  4. In buildings of Use Group R-3.
  5. In buildings used for residential multiple-family dwellings having more than two dwelling units (apartments), a single exit for buildings with less than 3 stories is permissible when meeting all of the following conditions:
    - A. Two (2)-hour fire rating between dwelling units and between dwelling units and other occupancies or a 1-hour fire rating between dwelling units and between dwelling units and all other occupancies plus the entire structure is fully sprinkled.
    - B. One (1)-hour fire rated exit enclosure.
    - C. Manual fire alarms if more than twelve (12) dwelling units.
    - D. Emergency lighting if more than twelve (12) dwelling units.
    - E. 5.7 square feet emergency egress windows in all sleeping rooms.
    - F. Exit access corridors serving the exit must provide a one-hour fire rating.
    - G. Not more than 35 feet of travel distance to the exit from the dwelling unit entrance door.

**Amend:** **1009.1 Accessible means of egress required.** *Accessible means of egress shall comply with the section. Accessible spaces shall be provided with not less than one accessible means of egress. Where more than one means of egress are required by Section 1006.2 or 1006.3 from any accessible space, each accessible portion of the space shall be served by not less than two accessible means of egress. Accessible means of egress shall be provided in accordance with this section, Chapter 11 and the Illinois Accessibility Code.*



**Amend:** **1023.8 Discharge Identification.** An *interior exit stairway* and *ramp* shall not continue below its *level of exit discharge* unless an *approved* barrier is provided at the *level of exit discharge* to prevent persons from unintentionally continuing into levels below. Directional exit signs shall be provided as specified in Section 1013.

**Exception:**

In buildings three (3) stories and less above or below the *level of exit discharge*, a physical barrier is not required provided adequate visual discharge identification is provided. Visual identification shall consist of floor number signs, exit signs, and glass exit discharge doors or other arrangements of visual identification *approved* by the *building official*.

**CHAPTER 11  
ACCESSIBILITY**

**Amend:** **Section 1103.1 Where Required.** *Sites, buildings, structures, facilities, elements and spaces, temporary or permanent, shall be accessible to individuals with disabilities. The Illinois Accessibility Code shall control the design and construction of buildings and facilities for accessibility and use by physically disabled persons. When there is a conflict between the Illinois Accessibility Code and the accessibility requirements in this code, the stricter code shall apply.*

**CHAPTER 13  
ENERGY EFFICIENCY**

**Delete entire Chapter.**

**CHAPTER 15  
ROOF ASSEMBLIES AND ROOFTOP STRUCTURES**

**Add:** **1511.7 Roof Covering Materials.** In all occupancies, no roof materials shall be constructed over or enclosed within a new roof or new *structure*.

**CHAPTER 16  
STRUCTURAL DESIGN**

**Amend:** **Section 1612.1. General.** Within *flood hazard areas, floodplain, or special flood hazard area* as identified or established within Chapter 11 of the Municipal Code of Effingham, Illinois, all new construction, *structures* and portions of buildings and *structures*, including substantial improvement and restoration of substantial damage to buildings and *structures*, shall comply with the regulations as contained in Chapter 11 of the Municipal Code of Effingham, Illinois, as

amended from time to time.

**Delete:** Sections 1612.2 through 1612.5

## **CHAPTER 18 SOILS AND FOUNDATIONS**

**Delete:** Section 1807.1.3

**Delete:** Section 1807.1.4

**Delete:** Section 1809.12

## **CHAPTER 29 PLUMBING SYSTEMS**

**Amend:** **2901.1 Scope.** The provisions of the *Illinois Plumbing Code*, as amended from time to time, shall govern the erection, installation, *alteration*, repairs, relocation, replacement, addition to, use or maintenance of plumbing equipment and systems.

**Delete:** Section 2902, including Sections 2902.1 through 2902.6.

## **CHAPTER 30 ELEVATORS AND CONVEYING SYSTEMS**

**Amend:** **3001.3 Accessibility.** Passenger elevators required to be *accessible* or to serve as part of an *accessible means of egress* shall comply with Sections 1009 and 1109.7 of this code, as well as the Illinois Accessibility Code.

## **CHAPTER 31 SPECIAL CONSTRUCTION**

**Amend:** **3109.1. General.** Swimming pools, spas, and hot tubs shall be installed in accordance to the regulations contained within Appendix B of the Municipal Code of Effingham, Illinois, as amended from time to time, and the NFPA 70 National Electric Code, 2008 Edition, as adopted by the City of Effingham, Illinois.

## **CHAPTER 35 REFERENCED STANDARDS**



**Amend: Code References**

1. Delete “*ICC Electrical Code*”, and replace with “*(NFPA 70) National Electric Code, 2008 Edition, as adopted by the City of Effingham, Illinois.*”
2. Delete “*International Energy Conservation Code (IECC)*” and replace with “*Illinois Energy Conservation Code (IECC), as may be amended from time to time by the State of Illinois.*”
3. Delete “*ICC Plumbing Code*” and replace with “*Illinois Plumbing Code, as may be amended from time to time by the State of Illinois.*”
4. IRC: See the modifications indicated in the International Residential Code amendments.
5. IFC: See the modifications indicated in the International Fire Code amendments.
6. NFPA: See the modifications indicated in the National Fire Protection Agency 101, Life Safety Code, 2012 Edition amendments and the modifications indicated in the National Fire Protection Agency 101, Life Safety Code, 2015 Edition amendments.

**Add:** More current standards may be utilized when *approved* by the *Building Official*.