

Adoption of the 2006 International Fire Code and Amendments

The 2006 International Fire Code was adopted by the Village of Glenview on February 4, 2009.

Amended by Ordinance #5190 February 3, 2009

Amended by Ordinance #5380 October 5, 2010

Fire codes are adopted to provide a means to enforce building standards of construction and use, and are periodically updated to reflect the latest standards of life-safety and construction technology. These amendments are established on particular physical and aesthetic conditions within the Village as well as to provide consistency between Village, State and County codes.

Amendments to the 2006 International Fire Code:

- (1) Section 101.1 Title. (Amend to read as follows.) These regulations shall be known as the Fire Code of the Village of Glenview, hereinafter referred to as “this code.”
- (2) Section 102.6. Referenced codes and standards. (Amend to read as follows.). The codes and standards referenced in this code shall be those that are listed in Chapter 45 and such codes and standards shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between the provisions of this code and the referenced standards, the provisions of this code shall apply. The following codes and standards are not adopted by reference:
IPC-2006 International Plumbing Code;
IWUIC-2006 International Wildland-Urban Interface Code.
- (3) Section 505.1. Address numbers. (Amend to read as follows.). Each structure to which an address number has been assigned shall have such number displayed in a position easily observed and readable from the public right-of-way. All numbers shall be in Arabic numerals at least six (6) inches high with a one (1) inch stroke. The color of the numbers shall be in contrast with the background for the numbers.
- (4) Section 506.1. Key boxes. (Amend to read as follows.). All buildings or structures equipped with a fire alarm or fire suppression system shall provide a fire department key box on the exterior of the building or structure. The box shall contain keys to allow fire department entry in the event of fire alarm activation or an emergency. The fire official may also require a fire department key box if access to the building, structure or area is unduly difficult. All fire department key boxes, location of the key boxes, and the number of key boxes required shall be approved by the fire official.
- (4A) Section 902.1 Definition - Alarm Notification Appliance- A fire alarm system component such as a bell, horn, speaker, light, or text display that provides audible, tactile, or visible outputs, or any communication thereof. All fire alarm notification appliances shall be red in color.
- (4B) Section 902.1 Definition - Fire Alarm Control Unit - A system component that receives inputs from automatic and manual fire alarm devices and is capable of supplying power to detection devices and transponder(s) or off-premises transmitter(s). The control unit is capable of providing a transfer of power to the notification appliances and transfer of condition to relays of devices. The control unit shall be used for fire alarm only.
- (5) Section 903.2.7 Group R. (delete this section)

- (6) Section 903.3.5. Water Supplies (Amend to read as follows). Water supplies for automatic sprinkler systems shall comply with this section and the standards referenced in Section 903.3.1. The potable water supply shall be protected against backflow in accordance with the requirements of this section and the adopted plumbing code. Hydrant flow data used for the design of any sprinkler system shall be no more than one (1) year old.
- (7) Section 903.3.5.3. Low water pressure factor (Amend by adding this section). Provide a minimum 10%, but not less than 5 psi, safety factor in the fire protection system hydraulic calculation. The system demand shall be a minimum 5 psi below the annual water flow test supply.
- (8) Section 903.4.2.1 Additional Alarm Location. A weatherproof visual strobe activated by water flow shall be provided on the exterior of the building or structure and located over the fire department connection or in a location approved by the authority having jurisdiction
- (9) Section 903.4.2.2. Location. (Amend by adding this section). Alarm notification appliances and approved audio/visual devices shall be provided and located per NFPA 72.
- (10) Section 903.4.3. Floor Control Valves. (Amend to read as follows)
Approved supervised indicating control valves shall be provided at the point of connection to the riser on each floor of the building or structure.
- (11) Section 903.4.4. Additional smoke detectors required. (Amend by adding this section). Where automatic sprinkler system provides protection to an area with an approved flow switch interconnected to the fire alarm system, and the area is easily identifiable as to the location of the activation, additional automatic detectors are not required. When a building has numerous rooms protected by the zoned sprinkler system, the authority having jurisdiction may require additional smoke detectors.
- (12) Section 903.5.1. Accessibility. (Amend by adding this section). Fire sprinkler systems inspection test valves shall be accessible at all times and located no more than 6' above the finished floor surface. On multiple riser systems test valves shall be clearly identified in permanent marking as to the riser and area served.
- (13) Section 903.7. Referenced Standards. (Amend by adding this section)
All references to NFPA Standards are to be considered part of this code.
Exceptions: NFPA 101 Life Safety Code
NFPA 5000 Building Code
- (14) Section 903.8. Fire Pump Test Header. (Amend by adding this section)
Automatic sprinkler systems that are equipped with an approved fire pump shall be provided with an OS&Y (or approved equal) control valve on the fire pump test header(s). Fire pump installations shall include an exterior test header.
- (15) Section 903.9. Private Fire Hydrants. (Amend by adding this section)
In developed lots, subdivisions or parcels except R-3 occupancies, fire hydrants shall be located in that no fire hydrant is located no greater than 300' from nearest fire hydrant. Fire Hydrants shall be provided on all sides of a developed lot, subdivision or parcel except R3 occupancies as approved by the authority having jurisdiction. One (1) fire hydrant shall be located not more than 100' of the fire department connection on the fire protection water supply to the building or structure.
- (16) Section 903.10. Fire Department Access. (Amend by adding this section)
Rooms or spaces containing an automatic sprinkler system riser valve and/or a fire pump shall be provided with direct access from the exterior of the building or structure.

- (17) Section 903.11. Warehouse Storage. (Amend by adding this section)
A 2½" fire hose valve with a 1½" reducer to a 1½" connection shall be provided at each means of egress to warehouse storage area's greater than 20,000 square feet in which storage exceeds 12' in height. The 2½" fire hose valves(s) shall be installed on a separate riser piping system and shall be provided with a 4" water supply with a 2½" branch water supplies. Each 2½" fire hose valve shall be installed no distance from the nearest 2½" fire hose valve is greater than 120'.
- (18) Section 903.12. Backflow Protection. (Amend by adding this section)
Backflow protection shall be provided on automatic sprinkler system risers in S1 and S2 occupancies that have a floor area greater than 20,000 square feet and storage in excess of 12' in height.
- (19) Section 906.1. Portable fire extinguishers. (Amend to read as follows.)
Where required: A portable fire extinguisher shall be installed in the following locations in accordance with NFPA 10, 2007 edition.
1. In all occupancies in Use Groups A-1, A-2, A-3, A-4, B, F-1, F-2, I-1, M, R-1 (except single family dwellings not used as adult care or child care facilities), S-1, S-2, and H.
 2. In all areas containing commercial kitchen exhaust hood systems Class K fire extinguishers are required.
 3. In all areas where fuel is used, stored or dispensed.
 4. In all areas where flammable or combustible liquids is used in the operation of spraying, coating, or dipping.
 5. In all occupancies in Use Group I-3 at staff locations. Access to portable fire extinguishers shall be permitted to be locked.
 6. On each floor of structures under construction, except occupancies in Use Group R-3.
 7. In any laboratory, shop or other room of similar purpose.
 8. Where required by sections indicated in Table 906.1 for various operations, processes, structures and areas.
- (20) Section 907.1.2. Equipment. (Amend to read as follows). Systems and their components shall be listed and approved for the purpose for which they are installed. Systems shall be installed per NFPA 72.
- (21) Section 907.2 Where required-new buildings and structures.
An approved manual, automatic, or combination manual and automatic fire alarm monitored system in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures in all use groups, except one and two family dwelling units.
- (23) Section 907.2.1. Group I Occupancies. (Amend by adding this section)
A manual fire alarm system shall be installed in Group I occupancies. An electrically supervised, automatic smoke detection system shall be provided in accordance with 907.2.1.1 and 907.2.1.2.
Exception: Manual fire alarm boxes in resident or patient sleeping areas of Group I-1 and I-2 occupancies shall not be required at exits located at all nurse's control stations or other constantly attended staff locations, provided such stations are visible and continuously accessible and that travel distances required in Section 903.7.1 are not exceeded.

- (24) Section 907.2.1.1. Group I-1. (Amend by adding this section)
Corridors, habitable spaces other than sleeping units and kitchens and waiting areas that are open to corridors shall be equipped with an automatic smoke detection system.

Exceptions:

1. Smoke detection in habitable spaces is not required where the facility is equipped throughout with an automatic sprinkler system.
2. Smoke detection is not required for exterior balconies.

- (25) Section 907.2.1.2. Group I-2. (Amend by adding this section)
Corridors in nursing homes (both intermediate care and skilled nursing facilities), detoxification facilities and spaces permitted to be open to the corridors by Section 407.2 shall be equipped with an automatic fire detection system. Hospital shall be equipped with smoke detection as required in Section 407.2.

Exceptions:

1. Corridor smoke detection is not required in smoke compartments that contain patient sleeping units where patient sleeping units are provided with smoke detectors that comply with UL268. Such detectors shall be provided a visual display on the corridor side of each patient sleeping unit and an audible and visual alarm at the nursing station attending each unit.
2. Corridor smoke detection is not required in smoke compartments that contain patient sleeping units where patient sleeping unit doors are equipped with automatic door-closing devices with integral smoke detectors on the unit sides installed in accordance with their listing, provided that the integral detectors perform the required alerting function.

- (26) Section 907.2.1.3. Group I-3. (Amend by adding this section). Group I-3 occupancies shall be equipped with a manual and automatic fire alarm system install for alerting staff.

- (27) Section 907.2.1.3.1. System Initiation. (Amend by adding this section)
Actuation of an automatic fire-extinguishing system, a manual fire alarm box or a fire detector shall initiate an approved fire alarm signal which automatically notifies staff. Pre-signal systems shall not be used.

- (28) Section 907.2.1.3.2. Manual Fire Alarm Boxes. (Amend by adding this section). Manual fire alarm boxes are not required to be located in accordance with Section 907.3 where the fire alarm boxes are provided at staff-attended locations having direct supervision over areas where manual fire alarm boxes have been omitted.

Manual fire alarm boxes shall be permitted to be locked in areas occupied by detainees, provided that staff members are present within the subject area and have keys readily available to operate the manual fire alarm boxes.

- (29) Section 907.2.1.3.3. Smoke Detectors. (Amend by adding this section)
An approved automatic smoke detection system shall be installed throughout resident housing areas, including sleeping units and contiguous day rooms, group activity spaces and other common spaces normally accessible to residents.
- Exceptions:
1. Other approved smoke detection arrangements providing equivalent protection including, but not limited to, placing detectors in exhaust ducts from cells or behind protective guards listed for the purpose are allowed when necessary to prevent damage or tampering.
 2. Sleeping units in Use Condition 2 and 3.
 3. Smoke detectors are not required in sleeping units with four or fewer occupants in smoke compartments that are required throughout with an approved automatic sprinkler system.
- (30) Section 907.2.2. Automatic Fire Detection System Required. (Amend by adding this section).
An approved automatic fire detection system shall be installed in all use groups, not provided with an automatic sprinkler system, and in accordance with NFPA 72. Devices, combination of devices, appliances, and equipment shall comply with Section 907.1.2. The automatic fire detectors shall smoke detectors, except that an approved alternative type of detector shall be installed in spaces such as boiler rooms where during normal operation products of combustion are present in sufficient quantity to activate a smoke detector.
- (31) Section 907.2.3. Control Panel Locations. (Amend by adding this section). All fire alarm control panels or full function annunciators panels shall be installed within 10 feet of the main entrance, or in a location approved by the fire department.
- (31A) Section 907.3 Where required—retroactive in existing buildings and structures
- An approved manual, automatic or manual and automatic fire alarm system shall be installed in existing buildings and structures in accordance with Sections 907.3.1 through 907.3.1.8. Where automatic sprinkler protection is provided in accordance with Section 903.3.1.1 or 903.3.1.2 and connected to the building fire alarm system, automatic heat detection required by this section shall not be required. An approved automatic fire detection system shall be installed in accordance with the provisions of this code and NFPA 72. Devices, combinations of devices, appliances and equipment shall be approved. The automatic fire detectors shall be smoke detectors, except an approved alternative type of detector shall be installed in spaces such as boiler rooms where, during normal operation, products of combustion are present in sufficient quantity to actuate a smoke detector. Exception: In existing residential multi-family use groups, initiating and notification devices required by NFPA 72 may be omitted from within the dwelling unit provided that such devices located within the adjacent common areas external to the unit shall provide an audible level acceptable to the fire marshal.
- (31B) Section 907.3.1 Occupancy requirements. An approved manual, automatic, or combination manual and automatic fire alarm monitored system shall be provided in all use groups, except one and two family dwelling units.

- (32) Section 907.11. Fire Safety Functions. (Amend by adding this section)
Automatic fire detectors utilized for the purpose of performing fire safety functions shall be connected to the building's fire alarm control panel where a fire alarm system is required by Section 907.2. Detectors shall, upon actuation, perform the intended function and activate the alarm notification appliances or a visible and audible supervisory signal at a constantly attended location. In buildings not required to be equipped with a fire alarm system, the automatic fire detector shall be powered by normal electric service and, upon actuation, perform the intended function. The detectors shall be located in accordance with Chapter 5 of NFPA 72. Multi-tenant Group M buildings will be activated by individual tenant space by the automatic sprinkler system flow switch for that space or an automatic fire detection system.
- (33) Section 912.1.1. Fire Department Connections. All fire department connections shall be a NST, 4" non-swivel Storz connection with a 30 degree down turn and shall be located on the building wall, 24" to 42" above finished grade.
- (34) Section 1006.3.1. Additional Illumination Requirements. (Amend by adding this section). All rooms containing the building fire sprinkler riser(s), fire pump(s) and fire alarm control panel(s) shall be provided with approved emergency lighting.
- (34A) Section 1007.6.5 Identification. Each door providing access to an area of refuge from an adjacent floor area shall be identified by a sign complying with ICC A117.1, stating: AREA OF REFUGE, and including the International Symbol of Accessibility. Where exit sign illumination is required by Section 1011.2, the area of refuge sign shall be internally illuminated. Additionally, tactile signage complying with ICC A117.1 shall be located at each door to an area of refuge.
- (34B) Section 1504.4 Fire protection. Spray booths and spray rooms shall be protected by an approved automatic fire-extinguishing system complying with Chapter 9. Protection shall also extend to exhaust plenums, exhaust ducts and both sides of dry filters when such filters are used. All existing spray booths and rooms in existence as of the date of this ordinance shall be retrofitted to comply with this automatic fire-extinguishing system requirement within a period of time specified by the fire code official.
- (35) Section 3301.1.3. Fireworks. (Amend to read as follows.). The possession, manufacture, storage, sale, handling and use of fireworks are prohibited.

Exceptions:

- (1) Storage and handling and use of fireworks at display sites in accordance with Sections 3304 and 3308.5 and NFPA 1123 or NFPA 1126 listed in Chapter 35 of the 2006 International Building Code.
 - (2) The retail sale of approved consumer novelties as defined by this Ordinance shall be permitted but only to persons 18 years of age or older. shall be permitted only in buildings equipped with approved automatic sprinkler systems. The display of consumer novelties in a building shall be separated from all exit doors by a minimum distance of 20 feet or as approved in advance in writing by the Fire Chief. The sale of consumer novelties shall not be permitted at any building or on any property where flammable or combustible liquids or gases are sold or dispensed.
- (36) Section 3301.1.3.1. Penalties for Possession. (Amend by adding this section). Any person, firm, corporation, or entity that violates any provision of Section 3301.1.3 shall be subject to an escalating fine schedule as follows:
1. First offense: \$50
 2. Second offense: \$100
 3. Third offense and each subsequent offense: \$250

- (37) Section 3302.1. Definitions. (Amend by adding the following.)
 CONSUMER NOVELTIES. Consumer novelties shall mean: (i) snakes, glow worm pellets, smoke devices, trick snappers, trick matches, cigarette loads, auto burglar alarms, toy pistols, toy canes, toy guns, and other devices in which paper or plastic caps containing 0.25 grains or less of explosive compound are used, provided they are constructed so that the hand cannot come in contact with the cap when in place for the explosion, and (ii) toy pistol paper or plastic caps which contain less than 0.25 grains of explosive mixture.
- (38) Section 3308.2.1. Outdoor displays. (Amend to read as follows.)
 In addition to the requirements of Section 403, permit applications for outdoor fireworks displays using Division 1.3G fireworks shall include a diagram of the location at which the display will be conducted, including the site from which fireworks will be discharged; the location of buildings, highways, overhead obstructions and utilities; and the lines behind which the audience will be restrained. All outdoor fireworks displays shall be electronically fired using approved electronic firing units and approved mortar racks. All outdoor fireworks displays shall comply with the provisions of the Illinois Fireworks Use Act (425 ILCS 35), and the Pyrotechnic Distributor and Operator Licensing Act (225 ILCS 227).
- (39) Section 3308.11 Retail display and sale. (Amend to read as follows.)
 It shall be unlawful to display, sell, store, or advertise for sale any Class 1.3G or 1.4G fireworks within the Village of Glenview.

Fire protection amendments to the Village of Glenview Municipal Code:

Sec. 34-121. Established; duties.

(a) This chapter shall be enforced by the Development Department of the Village. Fire prevention services shall be operated under the supervision of the Director of Development in consultation with the Fire Marshall. The Development Department shall be responsible for the inspection of all properties as required by the village code.

(b) The Director of Development and the fire marshal of the fire department shall recommend any amendments to this chapter which, in their judgment are desirable.

Sec. 34-122. Appeals.

(a) Whenever the Development Department shall disapprove an application or refuse to grant a license or permit applied for, or when it is claimed that the provisions of this chapter do not apply or that the true intent and meaning of this chapter has been misconstrued or wrongly interpreted, the applicant may appeal from the decision of the Development Department to the fire marshal within 30 days from the date of the decision appealed. The decision of the fire marshal shall be final.

(b) The fire marshal, when so appealed to, may vary the applications of any provision of this chapter in any particular case in accordance with the provisions of Section 34-152.

Sec. 34-151. Definitions

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Chief of the fire department and chief of the fire prevention bureau, when used in the fire prevention codes, mean the fire marshal, the authority having jurisdiction, or the Director of Development or their respective designees (“fire code official”).

Corporation counsel, when used in the fire prevention codes, means the attorney for the Village of Glenview.

Municipality, when used in the fire prevention codes, means the Village of Glenview.

Sec. 34-152. Modifications

The fire marshal shall have the power to modify any of the provisions of the fire prevention codes upon application, in writing, by the owner or lessee, or his duly authorized agent, when there are practical difficulties in the way of carrying out the strict letter of the codes, provided that the spirit of the codes shall be observed, public safety secured and substantial justice done. The particulars of such modification, when granted or allowed, and the decision of the fire marshal thereon shall be entered upon the records of the Development Department and a signed copy shall be furnished to the applicant.

Section 34-210 Fire Alarm and Fire Protection Systems

(1) Fire Alarm Systems

- a. All fire alarm control panels shall be of the addressable type only. Zone panels are not permitted.
- b. Where installed, all fire alarm junction boxes, covers, and connectors shall be red in color. Fire alarm box covers shall be identified as "FIRE ALARM" in a contrasting color.
- c. Transformers used in a fire alarm system shall be hard wired to its source of power.
- d. All fire alarm control panels shall be installed so they are conspicuous, unobstructed, and easily accessible. Locations shall be acceptable to fire code official.
- e. Fire alarm wire shall be attached to structural members by the use of bridle rings or loops.
- f. Duct detectors shall indicate at the fire alarm control panel as a fire alarm.

(2) Fire Protection and Fire Protection Systems

- a. All required documentation regarding the design and procedures for maintenance, inspection, and testing of fire protection systems, including fire protection submittal documents, shall be maintained in a secured location on the premises approved by the code official for the life of the fire protection systems.
- b. All duct detectors shall be labeled with the HVAC unit it is associated with and clearly marked on the finished side of the ceiling under the detector or in a location acceptable to the fire code official. Keyed Remote Test Switches shall be located on the wall closest to the detector mounted between 5 to 7 feet from floor.
- c. Battery operated emergency lighting shall be provided in all locations required by the fire code official, in all occupancies, other than one-family and two-family dwellings.
- d. Smoke detector spacing shall meet the NFPA 72 requirements of heat detector spacing for ceiling heights over 10 feet.
- e. Where 13D fire sprinkler systems are installed, they shall have dry head coverage in the garage.
- f. Where 13D fire sprinkler systems are installed, CPVC shall not be permitted to be exposed.

Section 34-311 Regulations

Use group R-2 structures (condominiums):

An automatic fire suppression system shall be provided throughout all multiple family buildings containing three or more dwelling units in accordance with NFPA 13D 2007 Edition: Standard for the Installation of Sprinkler Systems in One and Two Family Dwellings and Manufactured Homes.

Use group R-3 structures (town homes):

An automatic fire suppression system shall be provided throughout all multiple family buildings containing three or more dwelling units in accordance with NFPA 13D 2007 Edition: Standard for the Installation of Sprinkler Systems in One and Two Family Dwellings and Manufactured Homes.

Use group A-1, A-2, A-3 and A-4 (assembly occupancies):

An automatic fire suppression system shall be provided throughout all assembly buildings greater than 2,500 square feet in area. The design and installation of the suppression system shall be in accordance with NFPA 13 2007 Edition: Standard for the Installation of Sprinkler Systems.

Use Group B, E, F-1, F-2, H-1, H-2, H-3, H-4, I-1, I-2, I-3, M, S-1, S-2 and U (business, educational, factory, hospital, institutional, mercantile, storage and utility):

An automatic fire suppression system shall be installed throughout all buildings referenced herein where the size is greater than 5,000 square feet in area. The design and installation of the suppression system shall be in accordance with NFPA 13 2007 Edition: Standard for the Installation of Sprinkler Systems.

The provisions of this article shall apply to existing structures where alterations or remodeling exceed 50% of the replacement cost of the facility. For the purpose of this article, replacement costs shall be determined by the latest building valuation data published by the International Code Council.

Sec. 34-251. Liquefied petroleum gases

The bulk storage of liquefied petroleum gases within the boundaries of the Village is strictly prohibited. Portable tank storage shall be allowed as follows, provided all IFC and NFPA requirements are met:

- (1) *Commercial.* A total of 108, 20-pound cylinders, solely for the purpose of sale or exchange for private use, may be approved by the Director of Development, provided that vehicular impact protection and other requirements as may be deemed required for public safety, are present.
- (2) *Construction.* Portable cylinders used for heating purposes at construction sites shall be allowed in an amount acceptable to the code official, provided all requirements deemed necessary by the code official are present.

An operational permit is required for the sale and/or storage of portable LP containers. There shall be no fee for such operational permit.