

Insert pages for September 1, 2011 Wisconsin Commercial Building Code, Comm 61-66, into the International Building Code, 2009 edition

Safety and Buildings Division - Wisconsin Department of Safety and Professional Services

IBC Chapter 9, Insert 9E, Page 1 of 2

Insert between pages 188 and 189

Comm 62.0904 Alternative automatic fire-extinguishing systems. (1) Substitute the following wording and informational note for the requirements in IBC section 904.1: Automatic fire-extinguishing systems, other than automatic sprinkler systems, shall be designed and installed in accordance with the provisions of IBC section 904 and the applicable referenced standards.

Note: See ch. Comm 14 for requirements for inspection, testing, and maintenance of alternate automatic fire-extinguishing systems.

(2) These are department rules in addition to the requirements in IBC section 904:

(a) *Water mist fire protection systems.* Where a water mist fire protection system is installed, it shall comply with NFPA 750.

(b) *Manual-wet sprinkler systems.* 1. Where allowed. A manual-wet sprinkler system may not be installed in a building unless all of the following conditions are met: a. There is no municipal water system available to serve the property.

b. There is no provision under this code that requires the building or a portion of the building to have an automatic fire sprinkler system.

c. The municipality where the building is to be located has an adopted ordinance that requires the installation of manual-wet sprinkler systems and requires these systems to meet the provisions of this subsection.

2. General requirements. a. A building protected with a manual-wet sprinkler system shall be considered unsprinklered under all other code provisions.

b. Each manual-wet sprinkler system shall be provided with a fire department connection. The fire department connection shall be installed in an accessible location acceptable to the fire chief.

c. All above ground piping of the manual-wet sprinkler system shall be labeled as a "manual-wet sprinkler system." Labels shall be placed at the fire department connection; at all valves and hose outlets; and on the piping at intervals of not more than 25 feet and at each side where the piping passes through a wall, floor or roof.

d. The manual-wet sprinkler system design and installation shall comply with the automatic fire sprinkler system requirements of NFPA 13 or NFPA 13R, as applicable, except that the system comprised of the pilot line, fire department connection and fire department apparatus is considered as the approved water supply for the system.

e. A manual-wet sprinkler system shall be supplied with water through the fire department connection using fire department apparatus.

f. The plumbing well, water service and pressure tank shall be of a size and capacity to supply the hydraulically most remote sprinkler with the required waterflow and pressure for a minimum of 10 minutes.

- g. A pilot line shall be connected from the manual–wet sprinkler system to the plumbing water supply system at the well pressure tank. The pilot line shall be of a size that is adequate to supply the hydraulically most remote sprinkler in the system.
 - h. The connection of a manual–wet sprinkler system to a plumbing water supply system shall be protected against backflow conditions in accordance with ch. Comm 82.
 - i. The actuation of any sprinkler in the system shall operate the waterflow indicating device, which shall initiate a fire alarm within the building.
 - j. Upon actuation of the building fire alarm, a fire alarm signal shall be sent automatically to the fire department providing fire protection to the building.
3. Installer qualifications. The installation or alteration of a manual–wet sprinkler system shall be performed by a licensed individual as specified for the installation of an automatic fire sprinkler system under subch. V of ch. Comm 5.