

This guide is based on the 8th edition of the Manitoba Building Code (“the Code”) as adopted by the City of Winnipeg Building By-law. This guide is intended to assist in locating requirements in the Code that may be relevant to those involved in electrical designs, inspection, installation or maintenance.

1.4.1.2. (Division A) Defined Terms.

1.5.1.2. (Division A) Jurisdiction of the Manitoba Building Code over referenced documents.

1.3.1. & Table 1.3.1.2. Effective date and edition of referenced documents.

3.1.4.3. Wires and cables in buildings that are permitted to be of combustible construction.

3.1.5.18. Wires and cable in buildings that are required to be of noncombustible construction.

3.1.5.20. Restrictions on non-metallic raceways in buildings that are required to be of noncombustible construction.

3.1.6.6. Emergency air supply for air supported structures.

3.1.8.12. Door hold-open devices.

3.1.9.1. Fire stopping of service penetrations.

3.1.9.3. Penetration of fire rated assemblies or fire separations by wires, cables, boxes and raceways.

3.1.13.4. Flame spread rating for combustible light diffusers and lenses.

3.1.17. Occupant load calculations.

3.2.2.18.(1) Automatic sprinkler system required.

3.2.4.1. Fire alarm system (FAS) required.

3.2.4.2. Continuity of FAS.

3.2.4.3. Type of FAS required.

3.2.4.4. Single and two-stage FAS operation.

3.2.4.5. Installation and testing of FAS.

3.2.4.6. Commissioning of FAS

3.2.4.7. Silencing of FAS alarm signals.

3.2.4.8. FAS signals to the Fire Department.

3.2.4.9. FAS zoning and annunciation.

3.2.4.10. Supervision of FAS, sprinkler & standpipe

3.2.4.11. FAS fire detectors.

3.2.4.11.(3) Installation of sprinklers in lieu of heat detectors.

3.2.4.12. FAS smoke detectors.

3.2.4.13. FAS duct type smoke detectors.

3.2.4.14. Central Vacuum FAS shutdown.

3.2.4.15. Elevator alternate floor recall.

3.2.4.16. Sprinkler system monitoring from FAS.

3.2.4.17. FAS manual pull stations.

3.2.4.18. FAS alert and alarm signals.

3.2.4.19. FAS audibility.

3.2.4.20. FAS visual signals.

3.2.4.21. Smoke alarms.

3.2.4.22. Voice communication systems.

3.2.5.14. Supervision of sprinklers installed in service spaces.

3.2.5.16.(2) Remote release of locked fire extinguishers in B1 occupancies.

3.2.6. High rise buildings. See also Appendix B.

3.2.6.2.(5) Control of fans in a high rise building.

3.2.6.4. Emergency operation of elevators.

3.2.6.5.(6) Protection of electrical conductors for fire fighters elevators.

3.2.6.6.(1) Use of building exhaust system to vent smoke from sprinklered floor areas.

3.2.6.7. Central alarm and control facility requirements.

3.2.6.8. Voice communication system required.

3.2.7.1. Lighting requirements.

3.2.7.2. Recessed lighting fixtures.

3.2.7.3. Emergency lighting required. See also City of Winnipeg brochure, “Emergency Lighting and Exit Signs.”

3.2.7.4. Minimum power supply capacity for emergency lighting.

3.2.7.5. Emergency power supply installation.

3.2.7.6. Emergency power supply installation for hospitals and nursing homes.

3.2.7.8. Emergency power supply requirements for fire alarm and voice communications systems.

3.2.7.9. Emergency power supply for building services (elevators, fire pumps, fans, etc.)

3.2.8.5. Pressurized vestibules in buildings having interconnected floor space.

3.2.8.7. Draft stops for interconnected floor spaces. See also 3.2.4.11.(1)(f).

3.2.8.8.(2) Control of mechanical exhaust for interconnected floor spaces.

3.3.1.7.(1)(a) Fire protection of conductors for elevator providing barrier free access.

3.3.1.13.(9) Electrical operation of locked egress doors serving contained use area impeded egress zone.

3.3.1.24. Requirement for exit signs in service spaces.

3.3.2.13. Control and operations of deluge system, fire curtains, and ventilation for theatrical stages.

3.3.3.6. Requirement for smoke control in compartments containing operating rooms, delivery rooms, etc.

3.3.3.7.(4) Requirement for smoke control and remote release of doors in a contained use area.

3.3.5.7.(4)(c) Restriction on use of hold open device on door between storage garage and specific occupancies.

3.4.4.4.(1)(b) Restrictions on wiring penetrating an exit enclosure.

3.4.5. Exit signs. (See also City of Winnipeg brochure, “Emergency Lighting and Exit Signs.”)

3.4.6.14.(2) Electrical release of sliding door used as an exit door.

3.4.6.16.(4) Electromagnetic locks. (See also City of Winnipeg brochure, “Electromagnetic Locks.”)

3.6.2.1.(6) Requirements for construction of a service room required by the Canadian Electrical Code.

- 3.6.2.3. Service rooms containing electrical and other types of service equipment.
- 3.6.2.7. Requirements for electrical equipment vaults.
- 3.6.4.3.(1) Equipment and wiring within plenums (such as return air ceilings).
- 3.8.1.5. Mounting height of electrical controls in barrier free areas.
- 3.8.3.3.(5) Power operated barrier free doors.
- 3.8.3.7. Assistive listening systems.
- 6.2.2.7. Reference to NFPA 96 for commercial cooking exhaust systems (connection to fire alarm system, and shutdown of electrical equipment under the hood).
- 6.2.3.13.(2) Electrical controls of electrostatic type air filters.
- 6.2.4. Requirements for Carbon Monoxide alarms
- 6.3.1.4. Reference to the standard for lightning protection systems.

**PART 9 - SMALL BUILDINGS**

- 9.9.11. Exit signage.
- 9.9.12.2. Lighting level in egress facilities.
- 9.9.12.3. Emergency lighting.
- 9.10.8.2. Supervision of sprinklers installed in lieu of roof fire resistance rating.
- 9.10.9.6. Requirements for wires and boxes penetrating a fire separation.
- 9.10.9.15.(2), (3) Supervision of sprinklers installed in lieu of public corridor resistance rating.

- 9.10.10.3. Requirements for the construction of service rooms.
- 9.10.13.11. Hold open devices on doors.
- 9.10.17.8. Flame spread rating of light diffusers and lenses.
- 9.10.18. Fire alarm and detection system requirements in Part 9 buildings.
- 9.10.19. Requirements for smoke alarms in Part 9 buildings.
- 9.23.5. Drilling and notching in plates, studs, trusses, and framing members.
- 9.34.1. Requirements for electrical facilities.
- 9.34.2. Requirements for lighting.
- 10.1.3. Electrical requirements for private pools.

**NOTES**

1. The Manitoba Building Code is adopted under Subsection 2.2 of the Winnipeg Building By-law No. 4555/87.
2. The Manitoba Building Code (MBC) is based on the 2010 National Building Code, together with Provincial amendments.
3. The Winnipeg Building By-law may require that an existing occupancy comply with the requirements of the current Code (e.g. upgrading may be required where
  - a) An addition is being made to the building (refer to Subsections 11.1 and 11.2), or
  - b) The occupancy classification is being changed (refer to Article 15.1.4.).
4. In the event of conflict between this publication and a City of Winnipeg By-law, the By-law shall take precedence.



**ELECTRICAL PLAN EXAMINATION**

For more information on this bulletin or other code requirements, please contact

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# Electrical Requirements of the Winnipeg Building By-law