



# ELECTROMAGNETIC LOCKING DEVICE CERTIFICATE

Building Permit # \_\_\_\_\_ Date: \_\_\_\_\_

Installed at: \_\_\_\_\_

Location Within Building: \_\_\_\_\_ "✓" Check When Completed

- 1. Is the building equipped with a fire alarm System, complying with Subsection 3.2.4. of the Building Code?
- 2. Does the device release immediately:
  - a) upon activation of the fire alarm system?
  - b) in the event of a loss of power to the fire alarm control panel?
  - c) in the event of a fault in the electrical circuit between the fire alarm control panel and the controller of the locking device?
  - d) upon activation of a manually operated switch accessible only to authorized personnel and located near the main entrance of the building or in the central alarm and control facility?
  - e) upon release, the locking device must be reactivated manually by the activation of the manually operated switch stated in (d)?
- 3. Is a manually activated signalling box for the fire alarm system located on the wall within 600mm of the door?
- 4. Has emergency lighting been provided at the doors?
- 5. Is a legible sign having the words EMERGENCY EXIT UNLOCKED BY FIRE ALARM permanently mounted on the EXIT door at 1500mm above the floor level and the lettering on the sign at least 25mm high with a 5mm stroke?
- 6. Has newly installed pull station(s) been tested in conformance with the CAN/ULC-S537-M "Verification of Fire Alarm System Installations", **verification certificate attached?**  Not Applicable -or-
- 7. Has the door hardware for the operation of the doors been installed or relocated at a height not more than 1200 mm above the finished floor?
- 8. Does the operation of any by-pass switch, where provided for testing of the fire alarm system, cause an audible and visual signal on the fire alarm annunciator panel and the monitoring station?  Not Applicable -or-
- 9. An electromagnetic locking device has not been installed on a door **required** to have 'panic' type hardware?
- 10. Do the door(s) release or open immediately without an incorporated time delay?
- 11. Final inspection certificate from the Electrical Safety Authority for the wiring installation has been submitted?

The undersigned hereby certifies that the electromagnetic locking device(s) has been installed at the location noted above and meets all of the requirements and provisions of the **Ontario Building Code**, as amended, 3.4.6.16.(4) and crossover floors 3.4.6.18(3), as applicable.

Company Name: \_\_\_\_\_ Installer's Name: \_\_\_\_\_

Company Address: \_\_\_\_\_ Telephone No. \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Building Owner or  
Owner's Representative: \_\_\_\_\_ Position: \_\_\_\_\_

Address: \_\_\_\_\_ Telephone No. \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Please refer to the reverse side of this certificate for important installation information**

Send to: The Corporation of the City of Markham,  
Building Standards Department  
101 Town Centre Blvd., Markham, Ontario L3R 9W3 (905) 475-4850, Fax (905) 415-7501

## Electromagnetic Locking Device Information

- 1) The Building must have a fire alarm system installed, that complies with 3.2.4. of the Ontario Building Code.
- 2) The electromagnetic locking device must release immediately:
  - a) upon the activation of a fire alarm device, the delay between the time the fire alarm signal is sent and the eventual sounding of fire alarm and release of the locking device immediately must be less than 1 second is a Markham policy, if the delay is greater than 1 second, two sets of contacts must be used in the required manual pull station, one to ensure immediate release of the locking device and the other to send the signal to the fire alarm control panel.
  - b) in the event of loss of power to the fire alarm control panel or the power controlling the locking device Battery back-up for the fire alarm system is permitted to maintain the locks in a secure state. The power supply for the locking device is not permitted to be supplied with an Uninterrupted Power Supply (UPS) system.
  - c) in the event of a fault being detected in the wiring between the fire alarm panel and the locking device control unit.
  - d) upon activation of a manually operated switch accessible to authorized personnel and located near the main entrance of the building, the switch must be keyed or other approved measures taken to prevent unauthorized persons from tampering with locking devices. Only one switch is permitted and must be located near the main entrance of the building (previously installed switch must be relocated or removed) or within the central alarm and control facility.
  - e) upon release the locking device must be manually reactivated by the switch stated in sentence (d), once the magnetic locking device is released it cannot automatically reactivate, and must be manually reset.
- 3) The fire alarm pull station must be located no further than 600mm from the door that is equipped with the locking device, pull station to be located maximum of 1200mm above the finished floor.
- 4) The door equipped with the locking device must be provided with emergency lighting capable of illuminating the required sign on the door and the adjacent fire alarm pull station.
- 5) The required sign must be installed on the door equipped with the locking device and located approximately 1500mm above the finished floor, the sign must be legible.
- 6) If fire alarm pull station is **new** or **relocated** (with additional wiring) the pull station must be tested in conformance with CAN/ULC-S537-M and a verification certificate submitted to the City of Markham.
- 7) The door hardware and devices used in operation of the door equipped with the locking device must be located no higher the 1200mm above the finished floor. Existing door hardware must be relocated to comply with these requirements
- 8) The operation of any by-pass switch that allows for the testing of the fire alarm system (e.g., silencing of the alarm bells or preventing elevator recall) must cause an audible and visual signal at the annunciator panel and the monitoring station. If provided the operation of any by-pass switch shall not prevent the release of the electromagnetic locking device.
- 9) Electromagnetic locking device shall not be installed on a door **requiring** “panic” type hardware, such as *exit* doors from a *floor area* containing an *assembly occupancy* with an *occupant load* of more than 100, doors leading from an *exit* stair shaft to an *exit* lobby or to the exterior in buildings with an *occupant load* of more than 100, *exit* doors from a *floor area* containing a *high hazard industrial occupancy*.
- 10) Crossover floor doors required for access to floor areas from *exit* stairs may have electromagnetic locking devices installed provided release devices and signage provisions in 3.4.6.16.(4) are installed on both sides of the door. The installer must check with the building owner and existing signage to determine what floors are required crossover floors.
- 11) Electrical wiring associated with the power to the electromagnetic locking device and the fire alarm panel and devices requires approval from the Electrical Safety Authority. The Building Standards Department requires a copy of the final inspection certificate from ESA for confirmation of compliance with CAN/ULC-S524.