



# Miami Township Fire & EMS

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## General Fire Code Provisions

Miami Township Fire & EMS is committed to making our Township a safe place to live, work, and play. We appreciate all businesses, homeowners, and organizations that commit to our community and work to develop the land within it. As fire code officials, we work with our Township Community Development Department (Planning and Zoning) and the Clermont County Building Department through their Permit Central office to review and approve projects within our jurisdiction. Miami Township Fire & EMS has compiled this reference to provide an accessible, concise reference for the most referred-to fire code sections.

The entire Ohio Fire Code applies to anything within its scope, even when not listed in this document. The complete Ohio Fire Code can be found at: <https://com.ohio.gov/divisions-and-programs/state-fire-marshal/code-enforcement/ohio-fire-code>. The complete Ohio Building Code can be found at: <https://codes.iccsafe.org/#ohio>

### Submission and review of plans:

- Miami Township Fire & EMS may complete a cursory review of initial plans presented for zoning review to provide advance notification of anticipated concerns. This is not the formal Fire Code approval process, which occurs after formal submission to the Building Department
- All plans for proposed new, modified, or enlarged structures or developments in Miami Township shall be submitted to Clermont County Permit Central.
- Occupancy Permits
  - For any change of occupancy, a new occupancy permit should be requested through Permit Central.
  - 2024 Ohio Building Code Section 111 details Certificate Of Occupancy and Certificate Of Completion. To avoid delays, this should be requested as soon as possible on all buildings.
  - Further information on Certificates Of Occupancy noted later in this document
- Please keep in mind that plan review on the following topics is coordinated through Permit Central after zoning approval has occurred.
  - Building, Mechanical, Electrical and Fire Protection
  - Water Management and Sediment Control (WMSC) Approval
  - Flood Development Approval
  - Airport Zoning Approval
  - Local Fire Department Approval
  - Driveway Drainage Facility Approval by County Engineer
  - County Health District – Plumbing and Food Licensing.
- Further information is available at: <https://permit.clermontcountyohio.gov/>
- We highly recommend referencing the permit checklists at:  
<https://permit.clermontcountyohio.gov/permit-checklists>

## Plan Review Suggestions for Success

To help expedite your plan review process, please ensure that submitted plans include the following:

- Notations for all the Fire Code provisions listed in this document.
- Indicate the Building Use Group.
- List the height of the building and/or any overhangs.
- List square footage & occupant load.
- Show all widths of lanes, streets, alleys, and/or traffic flow patterns. Show fire lane areas.
- Show the location of hydrants and the size of the water main(s).
- Indicate if the building will have a sprinkler system or other fire suppression features.
  - List all fire department connections (FDC).

## Occupancy Permits

- All submissions should include (at a minimum) the items below. For other requirements, check with Clermont County Building Department
  - Completed Application
  - Site Plan with posted address, signage, and water supply/hydrants
  - Physical attributes of the structure:
    - Floor plan of each floor in the building with extinguishers, exits, and emergency lighting noted
    - Door sizes and hardware types
    - Construction type; i.e. wood frame, masonry, etc.
    - All fire protection systems and most recent inspection records
    - Description and location of electrical, mechanical, and ventilation systems serving the building or space
- Existing Building (no work)
  - The owner of an existing building may request the issuance of a Certificate of Use and Occupancy. The building official shall be the contact for a certificate of occupancy, provided there are no violations of law or orders of the building official pending, and it is established after inspection and investigation that the alleged occupancy of the building or structure has heretofore existed.
  - Include all information noted above.
- Change of Occupancy
  - For any change of occupancy, a new occupancy permit should be requested through Permit Central.
  - Include all information noted above.
- Occupancy after new construction, alterations, or additions
  - Compliance with all construction permits and in-service life safety systems required.
  - Include all information noted above.

## Ohio Fire Code Section 503

- Approved fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction which are not readily accessible from a public and/or private street.
- The fire apparatus access road shall extend to within 150 feet of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an approved route around the exterior of the building or facility.
  - The 150 feet measurement is contingent on terrain being traversable by a firefighter in full firefighting protective equipment with a hoseline
- The fire code official is authorized to require more than one fire apparatus access road based on the potential for impairment of a single road by vehicle congestion, condition of terrain, climatic conditions or other factors that could limit access.
- Fire apparatus access roads shall have an unobstructed width of not less than 20 feet, exclusive of shoulders.

### Fire Apparatus Access Road Considerations

- An access road capable of handling a vehicle with the following specifications will meet or exceed the minimum requirements within our jurisdiction
  - Gross Vehicle Weight – 80,000 pounds
  - Overall Length – 45 feet
  - Overall Width including mirrors – 9 feet 6 inches
  - Overall Clear Width required for operation (including aerial ladder jacks) – 17 feet 6 inches
  - Overall Height – 14 feet 6 inches
  - Wheelbase – 256 inches
  - Turning radius – 38 feet
  - Angle of entry or departure – 7 degrees

## **Ohio Fire Code Section 504 Access to building openings and roofs**

- Exterior doors and openings shall be maintained readily accessible for emergency access by the fire department. An approved access walkway leading from fire apparatus access roads to exterior openings shall be provided when required by the fire code official.
- New buildings four or more stories in above grade plane shall be provided with a stairway to the roof.

## **Ohio Fire Code Section 505 Premises identification**

- New and existing buildings shall be provided with approved address identification. The address identification shall be legible and placed in a position that is visible from the street or road fronting the property. Address identification characters shall contrast with their background. Address numbers shall be Arabic numbers or alphabetical letters. Numbers shall not be spelled out. Each character shall not be less than 4 inches (102 mm) high with a minimum stroke width of 1/2 inch (12.7 mm).
- Where required by the fire code official, address identification shall be provided in additional approved locations to facilitate emergency response. Where access is by means of a private road and the building cannot be viewed from the public way, a monument, pole or other sign or means shall be used to identify the structure. Address identification shall be maintained.
- Multiple locations of identification may be required for multiple occupancy or multiple tenant buildings.

## **Building Labels Internal and External**

- The following rooms or locations shall be labelled in accordance with sign provisions with the Ohio Fire Code
  - Roof Access
  - Fire Alarm
  - Riser Rooms
  - Electrical Panels
  - Utility Rooms
  - Elevator Rooms
  - Fire Department Connections
    - Shall include addresses protected, pump pressure
    - Examples are available as a separate document
  - Standard Labelling:
    - OFC 505.1 Numbers shall not be spelled out. Each character shall not be less than 4 inches (102 mm) high with a minimum stroke width of 1/2 inch (12.7 mm).
  - High Risk / Hazard Labelling
    - OFC 504.2 The sign shall consist of letters having a principal stroke of not less than 3/4 inch (19.1 mm) wide and not less than 6 inches (152 mm) high on a contrasting background

## Ohio Fire Code Section 506 Key boxes

- Miami Township Fire & EMS utilizes the Knox Box system for rapid entry and requires all commercial structures and multifamily residences to provide this system. Where multiple entries exist more than one key box may be required.
- Knox Boxes, you must order from the Knox Box company or their distributors. Utilize QR Code or go to <https://www.knoxbox.com/Products>
- A realtor box or similar product does not meet the requirements.

	Commercial Knox Boxes	Gate & Key Switches	Knox Padlocks	Knox Remote Power Box
Location at a structure	Near Primary Access Door, Riser Rooms, other critical access points	On gates / access points	On gates / access points	High Risk Electrical Areas
Color	Aluminum, Black, or Dark Bronze	Silver	Silver	Red
Key Capacity	Varies	N/A	N/A	N/A
Accessible by	Miami Township Fire & EMS only	Miami Township Fire & EMS only	Miami Township Fire & EMS only	Miami Township Fire & EMS only
Ordered from	Knox Box Company	Knox Box Company	Knox Box Company	Knox Box Company
Installed by	Building Staff	Bldg Staff / Appropriate Contractors	N/A	Appropriate Contractors
Will holes need to be drilled in the structure?	Yes	N/A	N/A	Dependent on installation

It is important to order these based on the fire department that covers your location. Mailing Address and Fire Department do not correspond. This is for Miami Township Fire & EMS, Clermont County, outside of the Cities of Loveland and Milford.



You must select the proper fire department as only your local department has access to the box. When ordered, Miami Twp Fire & EMS will be notified that the purchase occurred.

To view products available in your area, select the first responder department/agency that services the physical installation address

Your location

OHIO

Local fire department/agency

Miami Twp Fire & EMS

Search

## **Ohio Fire Code Section 507 Fire protection water supplies**

- An approved water supply capable of supplying the required fire flow for fire protection shall be provided to premises upon which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction.
- Water supply test. The fire code official shall be notified prior to the water supply test. Water supply tests shall be witnessed by the fire code official or approved documentation of the test shall be provided to the fire code official prior to final approval of the water supply system.
- Fire hydrant systems. Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than 400 feet from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official.
  - Hydrants for new installations are required to be within the direction of travel to measure the distance required.
  - Hydrants on major roads such as a State Route, will not be considered unless in close proximity to the entrance/intersection and not crossing travel lanes.
  - The path of approved travel may not be from the closest “line-sight” hydrant due to traffic flow, road design, or other factors.
  - For buildings equipped throughout with an approved automatic sprinkler system installed in accordance with the appropriate codes the distance requirement shall be 600 feet.
- Unobstructed access to fire hydrants shall be maintained at all times. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants.
- A 3-foot clear space shall be maintained around the circumference of fire hydrants except as otherwise required or approved.
- Where fire hydrants are subject to impact by a motor vehicle, guard posts or other approved means shall comply with appropriate codes.
- All fire hydrants on a private system shall be painted yellow.

## **Ohio Fire Code Section 509 Fire protection and utility equipment identification and access**

- Fire protection equipment shall be identified in an approved manner. Rooms containing controls for air conditioning systems, sprinkler risers and valves, or other fire detection, suppression or control elements shall be identified for the use of the fire department. Approved signs required to identify fire protection equipment and equipment location shall be constructed of durable materials, permanently installed and readily visible.
- Gas shutoff valves, electric meters, service switches and other utility equipment shall be clearly and legibly marked to identify the unit or space that it serves. Identification shall be made in an approved manner, readily visible and shall be maintained.
- Access shall be provided and maintained for all fire protection equipment to permit immediate safe operation and maintenance of such equipment. Unobstructed access to fire protection equipment shall be maintained at all times. Storage, trash and other materials or objects shall not be placed or kept in such a manner that would prevent such equipment from being readily accessible.

## **Ohio Fire Code Chapter 09 Fire protection systems**

- Class I Standpipe systems shall be required in all new commercial or multifamily buildings greater than two stories tall as measured from location of Fire Department Access Road
- Fire Department Connections shall be in a visible location street side of buildings, fully visible and recognizable from the street or nearest point of fire department vehicle access.
  - Signage: A sign with raised letters at least 1 inch in size shall be provided for all fire department connections. The sign shall include:
    - Address(es) protected (where the fire department connection does not serve the entire building, a sign shall be provided indicating the portions of the building served)
    - Designated pressure to be pumped at by fire department apparatus
    - Shall read: "AUTOMATIC SPRINKLERS" or "STANDPIPES" or "TEST CONNECTION" or a combination thereof as applicable.
- Carbon monoxide detection shall be installed in new buildings in accordance with Ohio Fire Code Section 915
- No person shall engage in the business of servicing, testing, repairing, or installing fire protection or fire-fighting equipment for profit without first being certified by the state fire marshal, as required by section 3737.65 of the Revised Code and this code.

## **Fire Alarm Systems**

- Fire Alarm systems points/devices shall be labelled in a method easily understood by someone not familiar with the building.
  - The Fire Department shall be given an electronic copy of the address, and a printed copy shall be available at the site. Recommended to correspond with the Fire Department while programming the alarm system.
- Fire Alarm Annunciators shall be installed at all main points of entry and near sprinkler risers.

## **Ohio Fire Code Section 407 Hazard communication**

- Material Safety Data Sheets (MSDS) for all hazardous materials shall be either readily available on the premises as a paper copy, or where approved, shall be permitted to be readily retrievable by electronic access.
- Individual containers of hazardous materials, cartons or packages shall be marked or labeled in accordance with applicable federal regulations. Buildings, rooms and spaces containing hazardous materials shall be identified by hazard warning signs.
- Hazard identification signs for the gases stored within the tanks are required.
- Pending site layout, signage a reasonable distance away from the tanks in the direction of travel must be provided with information of gas type, UN number, and tank size is requested for each tank. Approval of sign layout is required.
  - Ohio Fire Code 5003.5 and 5003.6

## Ohio Fire Code Section 510 Emergency responder radio coverage

- All new buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building.
  - Evaluations must follow current Ohio Fire Code guidelines.
  - Buildings requiring a survey / baseline report will need to be reasonably completed (“closed in” and with major equipment in place) before the survey / baseline report is conducted.
    - Signal and voice transmission quality shall be evaluated.
  - Structures of the following types should plan for a survey / baseline report. This is not limited to just these structures.
    - Concrete or metal construction
    - Buildings 10,000 square feet or larger or buildings with multiple floors
    - Underground spaces, including basements and parking garages.
  - Where required, copies of the baseline report, retransmission agreement, and as built / post installation report must be provided to the fire department.
  - Retransmissions must work for all repeated Clermont County MARCs channels

## Ohio Fire Code Section 312 Vehicle Impact Protection

- Vehicle impact protection will be required whenever an anticipated impact scenario is presented and shall be sufficient for the anticipated risk.

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Miami Township Fire & EMS is committed to making our Township a safe place to live, work, and play. This survey is being conducted to aid in the outreach of the services and community programs that Miami Township Fire & EMS provides.

We ask all residents and businesses/organizations to complete our Community Risk Survey. Please complete the survey twice if you live and manage an organization in Miami Township!



Please utilize the QR code with a camera equipped device, or the hyperlink if viewing this as a PDF document to complete the short survey.

[Miami Township Fire & EMS Community Risk Survey](#)