



Adoption of International Mechanical Code® 2024 (IMC® 2024)

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Chapter 1 Scope and Administration

Adoption of Chapter 1

The OUBCC has adopted the IMC® 2024 as amended and revised by the OUBCC, as the statewide minimum code to be used by all entities for commercial mechanical construction in jurisdictions throughout the State of Oklahoma. However, the OUBCC's adoption of Chapter 1 "Scope and Administration" of the IMC® 2024 is for continuity purposes and the OUBCC's adoption of Chapter 1 recognizes the methods of best practice in fully implementing the statewide minimum code for commercial mechanical construction.

105.1.1 Annual permit.

105.1.1 Annual permit. An annual permit is a yearly permit which represents a group of individual permits for each alteration to an already approved electrical, gas, mechanical or plumbing installation. The building official is authorized to issue an annual permit upon application therefor to any person, firm or corporation regularly employing one or more qualified tradespersons in the building, structure or on the premises owned or operated by the applicant for the permit.

Change Summary

This section has been modified to clarify an annual permit represents a group of individual permits for each alteration to an already approved electrical, gas, mechanical or plumbing installation.

105.1.2 Annual permit records.

105.1.2 Annual permit records. The person to whom an annual permit is issued shall keep a detailed record of alterations made under such annual permit. The building official shall have access to such detailed records of alterations at all times. At the completion of the entity's annual permit term, the applicant shall file such detailed records of alterations with the building official. Pursuant to the authority of 59 O.S. § 1000.25, the building official shall collect fees for each individual permit which is part of the annual permit once the detailed records are submitted and remit such fees to the OUBCC.

Change Summary

This section has been modified to require the building official to collect the OUBCC permit fee for each individual permit that is part of the annual permit at the completion of the annual permit term.

Chapter 3 General Regulations

301.15 Wind resistance.

301.15 Wind resistance. Mechanical equipment, appliances and supports that are exposed to wind shall be designed and installed to resist the wind pressures determined in accordance with the International Building Code®, SMACNA HVAC Duct Construction Standards - Metal and Flexible, and other approved methods.

Change Summary

This section has been modified to allow design and installation of equipment and appliances that are exposed to wind to be built in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible and other approved methods.

304.11 Guards.

304.11 Guards. Guards shall be provided where various components that require service located on a roof or elevated structure and have a condition as set forth in Sections 304.11.1 through 304.11.3. The top of the guard shall be located not less than 42 inches (1067 mm) above the elevated surface adjacent to the guard. The guard shall be constructed so as to prevent the passage of a 21- inch diameter (533 mm) sphere and shall comply with the loading requirements for guards as specified in the International Building Code®. Guards shall be provided at new components when added or replaced on an existing roof or elevated structure and have a condition as set forth in Sections 304.11.1 through 304.11.3. **Exception:** When approved by the authority having jurisdiction, guards are not required where permanent fall arrest/restraint anchorage connector devices that comply with ANSI/ASSE Z 359.1 are affixed for use during the entire roof covering lifetime. The devices shall be reevaluated for possible replacement when the entire roof covering is replaced. The devices shall be placed not more than 10 feet (3048 mm) on center along hip and ridge lines and placed not less than 10 feet (3048 mm) from roof edges and the open sides of walking surfaces.

Change Summary

This section has been modified to clarify the circumstances under which guards shall be provided around components and to modify the exception to require the authority having jurisdiction approve the use of a fall/restraint system instead of guards.

304.11.1 Roof edge.

304.11.1 Roof edge. Guards complying with 304.11 shall be provided when components are located within 10 feet (3048 mm) of a roof edge or open side of a walking surface or elevated structure and such edge or open side is located more than 30 inches (762 mm) above the floor, roof, or grade below. The guard shall extend not less than 30 inches (762 mm) beyond each end of the component that requires service.

Change Summary

This section has been added to clarify the circumstances required to exist for the installation of guards at the roof edge when the components needed service are within a specific distance of the roof edge.

304.11.2 Skylights.

304.11.2 Skylights. Guards complying with Section 304.11 shall be provided when a skylight is within 10 feet (3048 mm) of the component that requires service. The guard shall extend 30 inches (762 mm) beyond the edge of the skylight. **Exceptions:**

1. Guards are not required when the skylight is located at least 42 inches (1067 mm) above the highest point of the walking surface adjacent to the skylight or component.
2. Guards are not required if some other provision for skylight fall-through protection is provided and approved by the authority having jurisdiction.

Change Summary

This section has been added to clarify the circumstances for the installation of guards around components near skylights and to provide exceptions to the requirement.

304.11.3 Roof hatch.

304.11.3 Roof hatch. Guards complying with Section 304.11 shall be provided when a roof hatch is within 10 feet (3048 mm) of the component that requires service. The guard shall extend 30

inches (762 mm) beyond the edge of the roof hatch. If the component is within 10 feet (3048 mm) of the ladder access side of the roof hatch, the guard shall incorporate a self-closing, self-latching gate. The gate shall have a top edge of not less than 42 inches (1067 mm) above the elevated surface adjacent to the gate and shall not allow the passage of a 21-inch (533 mm) sphere. If a roof hatch exists within 10 feet of a roof edge that is located more than 30 inches (762 mm) above the floor, roof or grade below and a new component that requires service on that existing roof or elevated structure, then a guard complying with Section 304.11 shall be added between the existing roof hatch and the roof edge.

Change Summary

This section has been added to clarify the circumstances for the installation of guards around components installed within a specific distance from the roof hatch.

305.5.2 Location and protection of refrigerant piping.

305.5.2 Location and protection of refrigerant piping. Refrigerant piping installed within 1 1/2 inches (38 mm) of the underside of roof decks shall be protected from damage caused by nails and other fasteners.

Change Summary

This section has been added to provide protection for refrigerant piping installed within 1 1/2 inches (38 mm) of the underside of roof decks.

306.5 Equipment and appliances on roofs or elevated structures.

306.5 Equipment and appliances on roofs or elevated structures. Where equipment requiring access or appliances are located on an elevated structure or the roof of a building such that personnel will have to climb higher than 16 feet (4877 mm) above grade to access such equipment or appliances, an interior or exterior means of access shall be provided. Such access shall not require climbing over obstructions greater than 30 inches (762 mm) in height or walking on roofs having a slope greater than 4 units vertical in 12 units horizontal (33-percent slope). Such access shall not require the use of portable ladders. Where access involves climbing over parapet walls, the height shall be measured to the top of the parapet wall.

Permanent ladders installed to provide the required access shall comply with the following minimum design criteria:

1. The side railing shall extend above the parapet or roof edge or landing platform not less than 30 inches (762 mm).
2. Ladders shall have rung spacing not to exceed 14 inches (356 mm) on center. The upper-most rung shall be not more than 24 inches (610 mm) below the upper edge of the roof hatch, roof or parapet, as applicable.
3. Ladders shall have a toe spacing not less than 6 inches (152 mm) deep.
4. There shall be not less than 18 inches (457 mm) between rails.
5. Rungs shall have a diameter not less than 0.75-inch (19 mm) and be capable of withstanding a 300-pound (136.1 kg) load.
6. Ladders over 30 feet (9144 mm) in height shall be provided with offset sections and landings capable of withstanding 100 pounds per square foot (488.2 kg divided by meters squared). Landing dimensions shall be not less than 18 inches (457 mm) and not less than the width of the ladder served. A guard rail shall be provided on all open sides of the landing.

7. Climbing clearance. The distance from the centerline of rungs to the nearest permanent object on the climbing side of the ladder shall be not less than 30 inches (762 mm) measured perpendicular to the rungs. This distance shall be maintained from the point of ladder access to the bottom of the roof hatch. A minimum clear width of 15 inches (381 mm) shall be provided on both sides of the ladder measured from the midpoint of and parallel with the rungs except where cages or wells are installed.

8. Landing required. The ladder shall be provided with a clear and unobstructed bottom landing area having a minimum dimension of 30 inches (762 mm) by 30 inches (762 mm) centered in front of the ladder.

9. Ladders shall be protected against corrosion by approved means.

10. Access to ladders shall be provided at all times.

11. Top landing required. The ladder shall be provided with a clear and unobstructed landing on the exit side of the roof hatch, having a minimum space of 30 inches (762 mm) deep and being the same width as the hatch.

Catwalks installed to provide the required access shall be not less than 24 inches (610 mm) wide and shall have railings as required for service platforms. **Exceptions:**

1. This section shall not apply to Group R-3 occupancies.

2. This section shall not apply to appliance replacement.

Change Summary

This section has been modified to add a second exception for when the section would not apply.

307.1 Fuel-burning appliances.

307.1 Fuel-burning appliances. Liquid combustion byproducts of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). An acid neutralizer shall be installed before discharged of liquid combustion byproduct.

Change Summary

This section has been modified to require an acid neutralizer to be installed before discharge of liquid combustion byproducts.

307.2.1 Condensate disposal.

307.2.1 Condensate disposal. Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope). Condensate drains shall be allowed to terminate to an approved pit or French drain consisting of a minimum of 24 inches by 24 inches by 24 inches (610 mm by 610 mm by 610 mm), or equivalent; of 1 inch (25 mm) washed rock. Such pits or French drains shall be located 30 inches (762 mm) minimum from outer edge of foundation to nearest edge of pit or French drain. Condensate shall not discharge into a street, alley or other areas so as to cause a nuisance.

Change Summary

This section has been modified to allow condensate drains to terminate to a pit or French drain when approved by the code official.

307.2.3.1 Water-level monitoring devices.

307.2.3.1 Water-level monitoring devices. On down-flow units and all other coils that do not have a secondary drain or provisions to install a secondary or auxiliary drain pan, a water-level monitoring device shall be installed inside the primary drain pan. This device shall shut off the equipment served in the event that the primary drain becomes restricted. Devices installed in the drain line shall not be permitted. **Exception:** This section shall not apply to appliances installed in areas outside on the ground or elevated structure where condensate overflow will not damage building components or contents.

Change Summary

This section has been modified to add an exception for when the section shall not apply.

Chapter 5 Exhaust Systems

502.15 Repair garages.

502.15 Repair garages. Where Class I liquids or LP-gas are stored or used within a building having a basement or pit wherein flammable vapors could accumulate, the basement or pit shall be provided with ventilation designed in accordance with Section 2311.4.3 of the International Fire Code® to prevent the accumulation of flammable vapors therein.

Change Summary

This section has been modified to require compliance with Section 2311.4.3 of the International Fire Code® when designing basement or pit ventilation.

506.3.1.1 Grease duct materials.

506.3.1.1 Grease duct materials. Grease ducts serving Type I hoods shall be constructed of non-galvanized carbon steel having a minimum thickness of 0.0575 inch (1.463 mm) (No. 16 gauge) or stainless steel not less than 0.0450 inch (1.14 mm) (No. 18 gauge) in thickness. **Exception:** Factory-built commercial kitchen grease ducts listed and labeled in accordance with UL 1978 and installed in accordance with Section 304.1.

Change Summary

This section has been added to clarify the language between the code and NFPA® 96 regarding the type of steel to be utilized.

507.2. Type I hoods.

507.2 Type I hoods. Type I hoods shall be installed where cooking appliances produce grease or smoke as a result of the cooking process. Type I hoods shall be installed over medium-duty, heavy-duty, and extra-heavy-duty cooking appliances. **Exceptions:**

1. A Type I hood shall not be required for an electric cooking appliance where an approved testing agency provides documentation that the appliance effluent contains 5 mg per cubic meter when tested at an exhaust flow rate of 500 cfm (0.236 cubic meters per second) in accordance with UL 710B.
2. Where approved, a Type II hood equipped with a suppression system listed in accordance with UL 300A, or meeting the requirements of ICC-ES LC 1031, shall be permitted in new construction and renovation of adult day care facilities or child day care

facilities having an occupant load of 16 or less, with a single domestic Medium Duty Cooking Appliance, utilized for warming food only.

Change Summary

This section has been modified to add an additional exception for installation of Type II hoods when specific conditions are met.

Chapter 6 Duct Systems

604.1 General.

604.1 General. Duct insulation shall conform to the requirements of Sections 604.2 through 604.13, the International Energy Conservation Code® and SMACNA HVAC Duct Construction Standards - Metal and Flexible.

Change Summary

This section has been modified to add a requirement to duct insulation to conform to SMACNA HVAC Duct Construction Standards - Metal and Flexible.

Chapter 15 Referenced Standards

The reference to the International Building Code® has been modified to include after the title the words "as adopted and modified by the State of Oklahoma through the OUBCC." This section has been modified to read: IBC®-24 International Building Code® as adopted and modified by the State of Oklahoma through the OUBCC.

The reference to the International Energy Conservation Code® has been modified to change the edition year to 2006. This section has been modified to read: IECC®-06 International Energy Conservation Code®.

The reference to the International Fire Code® has been modified to include after the title the words "as adopted and modified by the State of Oklahoma through the OUBCC." This section has been modified to read: IFC®-24 International Fire Code® as adopted and modified by the State of Oklahoma through the OUBCC.

The reference to the International Fuel Gas Code® has been modified to include after the title the words "as adopted and modified by the State of Oklahoma through the OUBCC." This section has been modified to read: IFGC®-24 International Fuel Gas Code® as adopted and modified by the State of Oklahoma through the OUBCC.

The reference to the International Plumbing Code® has been modified to include after the title the words "as adopted and modified by the State of Oklahoma through the OUBCC." This section has been modified to read: IPC®-24 International Plumbing Code® as adopted and modified by the State of Oklahoma through the OUBCC.

The reference to the International Residential Code® has been modified to include after the title the words "as adopted and modified by the State of Oklahoma through the OUBCC." This section has been modified to read: IRC®-24 International Residential Code® as adopted and modified by the State of Oklahoma through the OUBCC.

The referenced standard for NFPA® 70 National Electrical Code® has been modified to include

after the title the words "as adopted and modified by the State of Oklahoma through the OUBCC." This section has been modified to read: 70-23 National Electrical Code® as adopted and modified by the State of Oklahoma through the OUBCC.

The referenced standard "UL 300A 2017 edition, Outline of Investigation for Extinguishing System Units for Residential Range Top Cooking Surfaces, has been added to the IMC. This reference has been added to read: 300A-17 Outline of Investigation for Extinguishing System Units for Residential Range Top Cooking Surfaces: Code reference section: 507.2.