

2018 Recommended Mechanical Code with Amendments

A **resolution** of the **Central Iowa Code Consortium** recommending adoption of the 2018 edition of the *International Mechanical Code (with all State of Iowa Amendments)*, regulating and governing the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of mechanical systems.

The **Executive Committee** of the **Central Iowa Code Consortium** does ordain as follows:

Section 1. That a certain document, being marked and designated as the *International Mechanical Code*, 2018 edition, as published by the International Code Council, be and is hereby adopted as the Mechanical Code of the participating communities of the **Central Iowa Code Consortium**, for regulating and governing the design, construction, quality of materials, erection, installation, alteration, repair, location, relocation, replacement, addition to, use or maintenance of mechanical systems as herein provided; providing for the issuance of permits and collection of fees therefor; and each and all of the regulations, provisions, penalties, conditions and terms of said Mechanical Code are hereby referred to, adopted, and made a part hereof, as if fully set out in this legislation, with the additions, insertions, deletions and changes, if any, prescribed in Section 2 of this resolution.

Section 2. The following sections are hereby revised:

Delete all references to the “International Fuel Gas Code” and insert in lieu thereof “NFPA 54 and NFPA 58”

Modify Code Section: IMC 304.11

Remove and Insert the following language to the Exception:

Exception: Guards are not required where permanent fall arrest/restraint anchorage connector device that comply with ANSI/ASSE Z 359.1 are and affixed for the use during the entire lifetime of the roof covering. The devices shall be placed not more than 10 feet (3048 mm) on center along hip and ridge lines and places not less than 10 feet (3048 mm) from the roof edges and the open sides of walking surfaces.

Modify Code Section: IMC 306.1

Insert the following language at the end of the code section:

An unobstructed level working space at least 30 inches deep and 30 inches wide shall be provided on any side of equipment where service access is required. Code official or designee may approve service space reductions prior to equipment installation, provided manufacturer's instructions are met. (Excluding suspended ceiling)

Modify Code Section: IMC 306.5

Insert the following language at the end of the code section:

If the tenants of a multiple tenant building have, or are allowed to have, mechanical facilities on or which penetrate the roof, then roof access ladders must be provided for use by all such tenants and their agents and contractors in a manner that does not require accessing space under the control of another tenant.

Modify Code Section: IMC 306.5

Remove the Exception:

Exception: ~~This shall not apply to Group R-3 occupancies.~~

Delete Code Section: IMC 307.2.4.1

Replace with the following language:

Ductless mini-split equipment that produces condensate shall be installed per manufacturer's instructions.

Delete Code Section: IMC 401.2

Replace with the following language:

Every occupied space shall be ventilated by mechanical means in accordance with section 403. Where the air infiltration rate in a dwelling is less than 5 air changes per hour when tested with a blower door at a pressure of .2 inches of water column in accordance with Section 402.4.1.2 of the energy conservation code, the dwelling shall be ventilated by mechanical means in accordance with Section 403.

Delete Code Section: IMC 402

Do not replace with any additional language:

Modify Code Section: IMC 508.1.1

Insert the following language at the end of the code section:

The temperature differential between makeup air and the air in the conditioned space shall not exceed 10°F (6°C) except where the added heating and cooling loads of the makeup air do not exceed the capacity of the HVAC system. All kitchen makeup air shall be tempered.

Exception: An Iowa Registered Mechanical Engineer submits a report to the local jurisdiction verifying the kitchen HVAC system is capable of handling the additional load created by non-tempered make up air.

Modify Code Section: IMC 603.1

Insert the following language at the end of the code section:

Air plenums and ducts located in floor and wall cavities shall be separated from unconditioned space by construction with insulation to meet energy code requirements. These areas include but are not limited to exterior walls, cantilevered floors, and floors above garages.

Modify Code Section: IMC 603.6.1.1

Insert the following language at the end of the code section:

Flexible air ducts shall be designed and installed per manufacturer's installation instructions and requirements.

Modify Code Section: IMC 604.3

Insert the following language at the end of the code section:

The use of air-inflated/encapsulated duct wrap to achieve required R-values shall be prohibited.

Modify Code Section: IMC 1107.5.4

Insert the following language at the end of the code section:

All press-connect fittings must be listed and labeled for refrigerant piping and installed per manufacturer's instructions.

Final Recommendation