



Mechanical Rough Inspection Checklist

Commercial Inspections

DevelopmentATX.com | Phone: 311 (or 512-974-2000 outside Austin)
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This checklist is provided as a reference tool, and it is not intended to be exhaustive of all possible requirements. Please refer to the latest adopted International Building Code (IBC), International Residential Code (IRC), International Energy Conservation Code (I.E.C.C) Local Amendments to the International Residential Code (IRC-LA), I.E.C.C (IECC-LA), the City of Austin Building Criteria Manual (BCM), the Uniform Plumbing Code (UPC), the City of Austin Land Development Code (LDC), and the National Electric Code (NEC) for code sections listed below.

- IRC, IECC and IBC <https://codes.iccsafe.org/public/collections/I-Codes>
- Local amendments <https://library.municode.com/TX/Austin>
- UPC and UMC <http://www.iapmo.org/>
- NEC <https://www.nfpa.org/>

Please verify the following before scheduling the inspection:

400 Rough

- The contractor or person doing the work has reviewed the approved plans and can ensure that the construction being inspected is consistent and ready for inspection.
- Job address is posted in a visible location. *IBC 501.2*
- Contractor has a set of “approved plans”, either electronic or paper, on site. *UMC 104.4.1, 104.4.6, and 302.3.3*
- All materials are listed and approved for use. *UMC 301.2 & 302.0 & 602.1*
- All required inspections have been completed prior to allowing any portion of the mechanical system to be covered, including walls, ceilings, and/or underground.
- The mechanical system has not be connected to any energy fuel source line until authorized. *UMC 105.1*
- All mechanical equipment is accessible for cleaning, replacement of filters, blowers, motors, burners, controls and any type of maintenance. *UMC 304.1*
- A means of access is provided to each appliance. Minimum size is 22”x30” or sized large enough for the largest piece of equipment to be removed. *UMC 304.4*
- A permanent ladder is provided for equipment located more than 15 feet off of the ground. *UMC 304.3.1*
- All rooftop equipment is installed more than 10 feet from a leaning edge. *UMC 303.8.4 (local amendment)*
- There is a means to collect and discharge condensation in an approved location that would not be considered a public walkway.
- Condensate drain piping has proper slope. *UMC 310.1*
- Condensation line overflow has additional protection methods in places where there can be damage to construction. *UMC 310.2*
- Hangers and supports are of sufficient strength to support the weight of tubing and pipe. *UMC 313.2*
- Ducts are supported at every change of direction in accordance with SMACNA Duct Standards. *UMC 603.3*
- Flexible air ducts do not exceed 5 feet in length, except in residential dwelling units. *UMC 603.5*
- All ducts, seams and joints are sealed and overlapped by 1 ½ inches and have a minimum of 3 screws equally spaced apart. *UMC 603.10*
- All penetrations through a fire-rated assembly are protected (unless the installer has met with an inspector and shown an exception in the code that allows otherwise). *UMC-LA 605- 605.7*
- Automatic shut-offs are in place to shut down all fan-powered equipment if a fire or smoke is detected. *UMC-LA 608-608.6.1*