

Building a Better and Safer Austin Together

Mechanical Rough Inspection Checklist Residential Inspections

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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 (IECC), International Swimming Pool and Spa Code (ISPSC), Uniform Plumbing Code (UPC), Uniform Mechanical Code (UMC), National Electric Code (NEC), Local Amendments (LA), Austin Energy Design Criteria (AE Design), City of Austin Building Criteria Manual (BCM) and City of Austin Land Development Code (LDC) for code sections listed below. Items without a code reference are included for advisory purposes or based on departmental policy.

- International Codes https://codes.iccsafe.org/public/collections/l-Codes
- Uniform Codes http://www.iapmo.org/
- NEC https://www.nfpa.org/
- Local Amendments, AE Design, BCM, LDC https://library.municode.com/TX/Austin

Please verify the following before scheduling the inspection:

400 Mechanical Rough

The mechanical contractor has confirmed the work is complete and ready for inspection.
Job address is posted in a visible location. <i>IRCR</i> 319.1
All other required inspections have passed. <i>IRCR109.4</i>
All materials are approved for use. <i>IRC M1301</i>
Appliances installed on exterior of home are listed and labeled by manufacturer for outdoor use.
IRC M1302, M1401.4
Appliance installation, anchorage, elevation and protection from impact conform to code requirements. <i>IRC M1307, M1401, M1408</i>
Clearance to combustibles meets manufacturer's specifications. IRCM1306
foamed attics cannot use equipment introducing combustion air into the thermal envelope. <i>IECC-LA R402.7</i>
Vented floor and wall furnaces are listed for current use and maintain all clearance for unit and registers as
required. IRC M1408, M1409
Combustion air is sized to manufacturer recommendations for Btu rating and has a 6-inch minimum
clearance in front of the openings. <i>IRC M1701</i>
Drilled, notched or altering of framing members is in accordance with code. IRC M1308
Piping protection is provided with No.16 gauge steel nail protectors when within 1½ inch of frame edge, deck
and sheathing surfaces. Protection extends 2 inches beyond the frame member. IRC M1308, M1411.7
Appliance access for service, repair, replacement and electrical requirements includes 22x30-inch attic
access, with 30-inch minimum head height large enough to remove the largest piece of equipment and
maximum distance of 20 feet from the entry opening. There is a solid, continuous and unobstructed catwalk,
at least 24 inches wide and constructed using approved floor deck material, from the access opening to the
unit, with 30 inches minimum head height. There is a work platform (at least 30x30 inches) in front of the
unit's serviceable parts. There is an outlet for light and service power at the unit and a light switch at attic
access point that does not require attic entry. <i>IRC M1305</i>

A/C duct insulation is at least R-8 if located outside the thermal envelope of the home. R-6 duct is allowed if
within the envelope of the building. If the rated efficiency of the installed cooling equipment is 15 SEER or
higher, duct return boots and plenums outside the thermal envelope may be insulated to R-6. R403.3,
except Sections R403.3.2, R403.3.3, R403.3.11
Support of ducts meets manufacturer's specifications. IRCM1601.4.4
HVAC system serving living spaces does not supply air to, or return from, garage. IRC M1601.6
Return air openings do not draw air from kitchens, closets, toilet rooms, mechanical rooms, garages, or from within 10 feet of gas-fired equipment or similar areas. <i>IRC M1602.2</i>
Return and supply air duct connections are sealed with approved material and in approved manner.
IRC M1601.4.1
Condensate disposal has ¹ /8 inch per foot of continuous minimum fall in direction of termination and discharge
does not cause a nuisance. IRC M1411.3
Condensate auxiliary and secondary drain systems meet requirements. IRC M1411.3.1, M1411.3.1.1
Insulation of refrigerant vapor (suction) lines is rated at least R-4. IRCM1411.6
Exhaust systems, other than dryer or range, are sized according to table IRC M1504.2, and exhaust is
sealed to exterior with flapper and screen using approved terminations. IRC M1501, M1504.2
Dryer ducts are constructed of metal with a minimum thickness of 0.0157 (28 gauge), a minimum diameter
of 4 inches, with no fasteners protruding more than 1/8 inch inside the duct. All seams and joints are sealed
and do not exceed the maximum length allowed after deduction for transition fittings. IRC M1502
Dryer ducts are supported at intervals not more than 12 feet and are secured in place. The inserted end of
joints extends into the adjoining duct or fitting in the direction of travel. IRC M1502.4.2
Range and overhead exhaust hood and duct have a smooth, airtight interior surface, and terminate and are
sealed from the exterior of home unless listed and labeled otherwise by the manufacturer. Ducts are
galvanized steel, stainless steel or copper. <i>IRC M1503</i>
Make-up air is in place for range exhaust more than 400 CFM. <i>IRCM1503.6</i>
Range and overhead exhaust terminate independently from all other exhaust systems. <i>IRC M1503.3</i>
All duct and exhaust systems are sealed and secured with approved material and methods. IRC M1601.4.1