



TENANT IMPROVEMENT CRITIQUE LIST FOR MECHANICAL PLAN REVIEW

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The primary reason for the Mechanical Plans to be rejected is due to insufficient information. The following information needs to be addressed on the plans.

FBC/MECH/BRA-104.6.4.11

Application for a mechanical permit shall be accompanied by sufficient description to clearly define the proposed work. All mechanical construction work shall be detailed on two sets of plans to no less than one, quarter inch (1/4") scale. The information to be illustrated on mechanical plans shall include, but not be limited to, the following:

1. Florida Energy Code:
 - a. Energy calculations as required by Chapter 13 of FBC/BLDG-code
 - b. Heat load ("J") calculations
2. A complete duct layout with specified materials:
 - a. CFM air volumes at each duct inlet and outlet
 - b. Duct sizes – Diffuser sizes
 - c. Balanced Air Returns
 - d. Outside air intakes / make up air
 - e. Routing and location of ducts, including risers
 - f. Thermal resistance ratings for ducts and duct insulation
3. Heating, ventilation, air conditioning and refrigeration equipment, boilers and appliances must show:
 - a. Air conditioning, refrigerant and amount of refrigerant in system (pounds)
 - b. Equipment manufacturer
 - c. Equipment model numbers
 - d. Equipment locations
 - e. Equipment efficiency ratings
 - f. Equipment capacity in tonnage and/or horsepower
 - g. Equipment accessibility
 - h. Equipment mounting/support details. (Mechanical equipment exposed to the wind must comply with Section 301.13 of the Florida Mechanical Code)
 - i. Roof mounted equipment. Detail of equipment attachment to roof stand/curb to supporting structure. (Must comply with requirements of the High Velocity Zone)
4. Fire protection assemblies and devices must show make, model, type, location and installation details for:
 - a. Automatic fire doors
 - b. Ceiling dampers
 - c. Fire dampers
 - d. Heat detectors
 - e. Smoke dampers
 - f. Smoke detectors (duct)

5. Exhaust systems must show:
 - a. Bathroom ventilation
 - b. Clothes dryer exhaust
 - c. Kitchen equipment exhaust
 - d. Laboratory exhaust
 - e. Specialty exhaust systems

6. Piping must show:
 - a. All piping materials and sizes
 - b. Piping insulation materials and thickness
 - c. Piping locations and terminations

7. Chimneys, fireplaces and vents must show:
 - a. Combustion air
 - b. Location
 - c. Venting requirements

8. Other:
 - a. Any available product specifications, and product listings.
Details for exterior ventilation devices