

MECHANICAL CHECKLIST FOR COMMERCIAL CONSTRUCTION

PERMIT SUBMITTAL REQUIREMENTS:

1. Two complete sets of mechanical drawings ($1/8'' = 1'$ minimum scale)
2. Maximum size of plan sets: 42" long, 30" wide (bound edge), 5/8" thick. All pages in a plan set shall be uniformly sized.
3. Drawings showing the location of corridors and other fire-rated construction
4. Completed Mechanical Permit Application
5. All documents must be clearly legible for microfilming, each page consecutively numbered and stapled. Pencil drawing will not be accepted.

***Applications are accepted between the hours of 8:00 AM and 4:00 PM only**

A. HEATING, VENTILATION & AIR CONDITIONING (HVAC) CONSTRUCTION DOCUMENTS

All submittals should include (as applicable) the following:

- Cubic feet of air per minute (CFM) at each air diffuser, return air register, exhaust and transfer grill; size of ducts and outlets; equipment schedule of brand names, fuel type, model numbers, input and output capacity, tons of cooling, efficiency ratings, CFM capacity, motor efficiencies, and unit weights; and locations of smoke and fire dampers.
- Combustion air source, size and locations.
- Make-up air system required to meet IMC, WSEC and VIAQ requirements.
- Roof parapet and screening, where applicable or required.
- Structural details and calculations wet-stamped by a certified Washington State Design Professional for all suspended or rooftop mechanical units greater than 400 pounds.
- Anchorage details for mechanical equipment to meet structural seismic and static loads.
- Manufacturers' installation instructions/catalog cut sheets for all equipment specified.

B. KITCHEN OR HAZARDOUS EXHAUST SYSTEMS (IMC CHAPTER 5)

All submittals should include (as applicable) the following:

- An additional permit application by a licensed fire suppression contractor as required.
- Exhaust fire detection systems to be integrated with building fire detection if automatic detection is required for building permit.
- Building section of ceiling/roof, ceiling/floor and wall penetrations by ducts and/or hoods.
- Minimum clearances to specific construction assembly (identify clearances and if construction assembly is combustible or non-combustible).
- Fire-resistant duct, shaft or hood enclosures where required by code.
- Termination outlet distances from adjacent property lines, buildings, tenants, parapets, grade, openings, supply units, and roof.
- Dedicated make-up air system.
- Equipment manufacturer model # for cooking, grease and steam-producing appliances.

- 18 inch clearance from combustible construction required for grease duct systems and exhaust equipment serving Type I hoods. Stainless steel (washable, non-combustible) wall treatment per code. Inspections required prior to enclosure of ducts and walls.
- Hinges required at upblast fans for Type I or Type II hoods.

NOTE: Type I Hoods required where cooking appliances produce grease or smoke.

Type II Hoods required where cooking or dishwashing appliances produce heat or steam and do not produce grease or smoke. Manufacturers cut sheet required for exemption.

APPLICABLE CODES AND REFERENCES

- International Mechanical Code (IMC) 2009 Edition and WAC 51-52
- International Fire Code (IFC) 2009 Edition and WAC 51-54
- Washington State Energy Code (WSEC) 2006 Edition and WAC 51-11
- Automatic Fire Detection & Suppression System Ordinance No. 1902-92

Chkfst-Mechanical (8/10)