

## Mechanical Review

Group	Title	Year, Code	Section(s)	Comment Text
Administrative	INFORMATION LACKING	2018 IMC	106.3.1	Please submit a complete set of plans showing all aspects of the scope of work. It appears that the plans submitted have not clearly shown the information necessary to complete a full review. (IMC 106.3.1)
Ducts	FIRE/SMOKE DAMPERS IN DUCT SYSTEM INADEQUATE	2018 IMC	607	Please provide details and show locations of fire/smoke dampers. (IMC 607).
Ducts	INADEQUATE DUCT SMOKE DETECTION	2018 IMC	606.2	Please provide details to show compliance with IMC 606.2.
Energy	MEANS OF ENERGY COMPLIANCE REQUIRED	2018 IECC		Please provide a mechanical energy compliance certificate and checklist such as ComCheck or other approved documentation.
Energy	INADEQUATE ENERGY COMPLIANCE	2018 IECC	C403.2, C403.3.1, C403.3.2	Please provide details to show compliance with IECC C403.2, C403.3.1, and C403.3.2.
Energy	PROVIDE WEATHER SEAL	2018 IECC, 2016 ASHRAE 90.1	C402.5.6	Please provide details on the drawings that show weather seals will be used on cargo doors and loading dock doors to restrict infiltration when vehicles are parked in the doorway. Weather seals are also required under building envelope trade-off option per ASHRAE 90.1 5.4.3.3. (IECC C402.5.6)
Energy	PROVIDE R-VALUE FOR SLAB-ON-GRADE	2018 IECC	C402.1.3	Please ensure the architectural or structural drawings note the minimum R-value and installed dimensions for the perimeter slab-on-grade floor insulation. (IECC C402.1.3)
Exhaust	INADEQUATE VENTILATION SYSTEM FOR BATTERY-CHARGING	2018 IMC	502.3	Please provide ventilation system details. (IMC 502.3)
Exhaust	INADEQUATE VENTILATION SYSTEM FOR FLAMMABLE FINISH APPLICATION	2018 IMC	502.7	Please provide details to show compliance with the requirements of IMC 502.7.
Exhaust	INADEQUATE VENTILATION SYSTEM FOR HAZARDOUS MATERIALS	2018 IMC	502.8	Please provide exhaust ventilation details to show compliance with IMC 502.8.
Exhaust	INADEQUATE VENTILATION SYSTEM FOR HAZARDOUS MATERIALS	2018 IMC	502.9	Please provide exhaust ventilation system details to show compliance with IMC 502.9.
Exhaust	INADEQUATE KITCHEN HOOD	2018 IMC	506.3, 506.3.6, 506.3.11.2	Show compliance of Type-I kitchen hood per IMC 506.3. If using an exception to IMC 506.3.6 or 506.3.11.2, please provide materials to be used and include the manufacturer's installation instructions.
Exhaust	PERFORMANCE TEST NOTES REQUIRED FOR HOOD SYSTEM	2018 IMC	507.6	Please add notes to the plans the requirements of IMC 507.6 and 507.6.1 for commercial kitchen hoods.
Exhaust	INADEQUATE HAZARDOUS EXHAUST SYSTEM	2018 IMC	510	Please provide details to show compliance with IMC 510.
Exhaust	INADEQUATE DUST, STOCK AND REFUSE CONVEYING SYSTEM	2018 IMC	511	Please provide details to show compliance with all of IMC 511.
Exhaust	FIRE SUPPRESSION INTERCONNECTION REQUIRED	2018 IMC	509.1	Please provide details on the plans showing the required automatic fire suppression system for the Type I hood which complies with the International Building Code and International Fire Code. (IMC 509.1)
Exhaust	PROVIDE KITCHEN HOOD DETAILS	2018 IMC	507.1	Please provide detailed drawings for kitchen exhaust hood showing compliance with all subsections of IMC 507. Hood details must coordinate with mechanical plans. Factory built hood information must include: hood type, model name and number and equipment schedule; exhaust and make up air CFM; type and surface area of grease filters; test information showing compliance to UL 710 or UL 710B; and hood dimensions and gauge. (IMC 507.1)
Exhaust	MAKEUP AIR INADEQUATE	2018 IMC	501.4	Please clarify on the drawings how makeup air is provided for the exhaust system. (IMC 501.4)
Exhaust	INADEQUATE EXHAUST FOR CAR REPAIR, GARAGE	2018 IMC	403.3, 502.1.1	Please provide a minimum of 0.75 CFM per square foot of exhaust directly to the outdoors for repair shops, service stations, and public garages. The inlet of the exhaust shall be located in the area of heaviest concentration of contaminants. (IMC 403.3, 502.1.1)

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Exhaust	NAIL SALON EXHAUST INADEQUATE	2018 IMC	403.3, Note "h", 502.20	Please provide a source capture system for all manicure and pedicure stations capable of exhausting no less than 50 CFM per station. The source capture system shall be in the immediate vicinity of the source. Systems that capture vapors and fumes, passes them through a filtering system and then recirculates back into the room is not permitted. (IMC 403.3 Note "h", IMC 502.20)
Exhaust	MOTOR VEHICLE EXHAUST INADEQUATE	2018 IMC	502.14	Please provide an exhaust system (source capture system) that connects directly to the motor vehicle exhaust system (tailpipe) in motor vehicle repair areas where stationary vehicles are operated. (IMC 502.14)
General	CONDENSATE DISPOSAL INADEQUATE	2018 IMC	307, 307.2.3, 307.2.3.1	Please provide drawings and/or notes outlining the requirements of IMC 307. Additionally provide specific drawings and/or notes outlining the requirements of IMC 307.2.3 and/or 307.2.3.1.
General	INADEQUATE ATTIC APPLIANCE DETAIL	2018 IMC	306.1, 306.3	Drawings indicate that there are appliances installed in the attic. Please add specific construction details to the plans (IMC 306.1, 306.3)
General	INADEQUATE ACCESS TO ROOF APPLIANCE	2018 IMC	306.5, 306.5	Please provide specific construction details for roof top access that showing compliance with IMC 306.5. Specific details shall include the requirements listed in 306.5.
General	HEATING OVERSIZED	2018 IMC	106.3.1, 312.1	It appears that the heating system unit specified on drawings is oversized per the load calculations provided per ASHRAE/ACCA Standard 183. Please provide the manufacturers specifications for smaller code compliant sized unit. (IMC 106.3.1, 312.1)
Piping	NOTE FOR TESTING OF HYDROPONIC PIPING REQUIRED	2018 IMC	1208	Please add a note to plans regarding testing requirements for hydroponic piping. (IMC 1208)
Refridgeration	INADEQUATE REFRIDGERATION SYSTEM	2018 IMC	1103	Please provide details to show compliance with IMC 1103.
Refridgeration	REFRIDGERANT SYSTEM FIELD TEST REQUIRED	2018 IMC	1108	Please add a note to plans regarding testing requirements for refrigerant system. (IMC 1108)
Refridgeration	REFRIDGERANT SYSTEM TESTING CERTIFICATE REQUIRED	2018 IMC	1108.4	Please add a note to plans regarding testing certificate requirements. (IMC 1108.4)
Ventilation	VENTILATION CALCULATION REQUIRED	2018 IMC	402, 403	Please provide calculations and specific details for providing natural and/or mechanical ventilation. (IMC 402, 403)