Marietta Fire Department

Fire Marshal's Office

Plan Review

Kitchen Hood Vent System Checklist[1,2]

Job Name:_____

Address:_____Bldg:____Suite:_____

Responsible Party:_____Phone:_____

Email:_____

GENERAL INFORMATION:

Contractor Name/Company:_____

Contact Email:_____

Company Address: _____

Hood Mfr._____ Total Number of Hoods _____

Fire Sprinkler System Present Y❑ N❑ Fire Alarm System Present Y❑ N❑

Business Operation Letter Y❑ N❑ Scope of Work Letter Y❑ N❑

✓ = Pass, **X** = Fail, **NA** = Not applicable	**Status**
DRAWING SUBMITTAL REQUIREMENTS	
1) Plans submitted by mechanical contractor [AHJ]	
1) **IN PDF (Please do NOT submit paper)** - Provide one (1) set of drawings, 1 set of submittal data, scope of work and business operation on letterhead, and tech sheets for all components [120-3-23-.17(1)]	
2) Declaration of Applicable Current Codes. [17A: 6.1.1]	
3) The plans shall be drawn to a common scale or shall be clearly dimensioned and shall be reproducible. [17A: 6.3.1]	
5) Hood height and ceiling height required on plans [7.7.2.2]	
6) Wall detail showing construction of wall behind hood required on plans	
7) Identification of any special hazards protected, such as solid fuel cooking [17A: 6.3.2]	
8) Clearly identify the hazard protected by using numbers on common manual activation, hoods, and systems served [17A: 5.2.1.10.2]	
9) Identification of special auxiliary devices [17A: 6.1.1]	
10) Hood constructed of steel not less than .048" or stainless steel not less than .036" [5.1.1 or Listed]	
11) Show that where enclosures are not required, hoods, grease removal devices, exhaust fans, and ducts shall have a clearance of at least 457 mm (18 in.) to combustible material, 76 mm (3 in.) to limited-combustible material, and 0 mm (0 in.) to noncombustible material; unless reduced in an approved manner [4.2] OR Reduction assembly used _____	
DUCTS	
12) Ducts shall not pass through fire walls [7.1.1]	
13) Ducts shall not be interconnected with any other building exhaust system [7.1.3]	
14) Clearance of any duct shall comply with 4.2. [7.6.3] *	
15) Duct enclosure shall have the same fire resistance rating as any fire barrier penetrated [7.7.1]	
16) Ducts shall be constructed of carbon steel not less than .054" in thickness or stainless steel not less than .043" in thickness. [7.5.1]	
17) Note on plans: Butt welded joints shall not be permitted. [7.5.5.2]	
18) Duct enclosures in buildings <4 stories shall have a minimal 1-hour resistance rating; 4 stories and higher shall have a minimal 2-hour resistance rating. [7.7.2.1]	
19) Clearance from the duct to the interior surface of enclosures of noncombustible or limited-combustible construction shall be not less than 152 mm (6 in.). [7.7.2.2]	
20) Multiple ducts shall not be permitted in a single enclosure without AHJ consent. [7.7.5.2]	
AIR FLOW	
21) The air velocity through any duct shall be not less than 152.4 m/min (500 ft/min) [8.2.1.1]	
22) Hood exhaust systems shall operate automatically during cooking operations (gas installations) [IFGC 505.1.1]	
23) When the fire-extinguishing system activates, makeup air supplied internally to a hood shall be shut off [8.3.2]	
24) A hood exhaust fan(s) shall continue to operate after the extinguishing system has been activated [8.2.3.1]	

FIRE EXTINGUISHING	
25) Fire-extinguishing equipment shall include both automatic fire-extinguishing systems as primary protection and portable fire extinguishers as secondary backup – if not providing suppression system, include as a general note [10.2.1]	
26) A placard shall be conspicuously placed near each extinguisher that states that the fire protection system shall be activated prior to using the fire extinguisher - provide a general note or detail on plans[10.2.2]	
ROOFTOP TERMINATION	
27) Min. 10' horizontal clearance from outlet to adjacent buildings, property lines, and air intakes. [7.8.2.1 (1)]	
28) Min. 5' horizontal clearance from outlet (fan housing) to any combustible structure. [7.8.2.1 (2)]	
29) Vertical separation of 3' between exhaust outlet and any air intake within 10' of exhaust outlet. [7.8.2.1 (3)]	
30) Grease collection device required. [7.8.2.1 (4)(5)(6)(7)]	
31) Where the fan attaches to the ductwork, the ductwork shall be a minimum of 18" away from any roof surface (including roofing materials ran up the curbing). [7.8.2.1 (8)(a)]	
32) The fan shall discharge at a minimum of 40" away from any roof surface. [7.8.2.1 (8)(b)]	
33) Where the roof surface or parapet is greater than 16'-0" above grade, an interior or exterior means of accessing the equipment shall be provided. [IMC 306.5]	
WALL TERMINATION	
34) Shall be through a non-combustible wall with minimal 10' clearance from outlet to adjacent buildings, property lines, grade level, combustible construction, electrical equipment or lines, and closet point of any air intake or operable door or window at or below the plane of the exhaust termination. [7.8.3]	
35) Min. 10' clearance to any air intake or operable window or door above the plane of the exhaust termination. [7.8.3(2)]	
36) Fan shall be hinged, supplied with flexible weatherproof electrical cable and service hold-open retainers, and listed for usage. [7.8.3 (7); 8.1.1.1]	
37) Grease collection device required [7.8.3(5)]	
SOLID FUEL COOKING APPLICATIONS	
38) Spark arrester requirements. [14.1.5, 14.1.6, 14.5.2]	
39) Solid fuel exhaust system shall be separate from all other exhaust systems [14.3.3]	
40) Wall terminations shall be prohibited. [14.4.4]	
41) All solid fuel appliances (whether under a hood or not) with fire boxes of 5 ft. volume or less shall have at least a 2-A rated water-type fire extinguisher or a 1.6 gallon wet chemical fire extinguisher listed for Class K fires in accordance with NFPA 10 in the immediate vicinity of the appliance. [14.7.8]	
42) Solid fuel cooking appliances shall be installed on floors of noncombustible construction that extend 3' in all directions from the appliance unless listed for less clearance. [14.9.1.1 – 14.9.1.5]	
43) Where [fuel] stored in the same building as the solid fuel appliance, fuel shall be stored only in an area with walls, floor, and ceiling of noncombustible construction extending at least 3 ft. past the outside dimensions of the storage pile. [14.9.2.5]	
44) All fuel storage shall be provided with a sprinkler system meeting the requirements of NFPA 13 and acceptable to the authority having jurisdiction. 14.9.2.8 or, if pile does not exceed 5 ft., then a portable fire extinguisher as specified in 14.7.8 shall be permitted.	

[1] The above is not an all-inclusive list, all applicable fire and life safety provisions must be met.
[2] Codes referenced, unless otherwise indicated, are from NFPA 96, 2017

Notes:_____
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Reviewer:_____ Date:_____