


City of Decatur Fire & Rescue Services

<p>Fire Marshal's Office</p>  <p>Plan Review</p>	<p>Commercial Cooking Operations – NFPA 96 Hood¹ (2012)</p> <p>Job Name: _____</p> <p>Address: _____ Bldg: _____ Suite: _____</p> <p>City: _____ Zip: _____</p> <p>Applicant Name: _____ Phone: _____</p> <p>Email: _____</p> <p>GENERAL INFORMATION:</p> <p>Company Name: _____ Permit Number: _____</p> <p>Contact Email: _____ Phone: _____</p> <p>Company Address: _____</p> <p>Copy of Plans in PDF on CD Y <input type="checkbox"/> N <input type="checkbox"/></p>
<p>✓ = Pass, X = Fail, NA = Not applicable</p>	
<p style="text-align: right;">Status</p>	
<p>The below is not an all-inclusive list - Plans must meet all NFPA requirements. Please refer to chapter 120-3-3 Rules and Regulations of the Safety Fire Commissioner regarding what edition of specific codes City of Decatur is using. An explanation of all requirements is available upon request. Provide contact information for person responsible for completing the hood plan review form below:</p>	
<p>Name: _____ Phone number: _____ Date: _____</p>	
<p>Plans submitted are to depict hood and duct system as it will be installed (Shop Drawings). The plans are to include an aerial image of the roof or a roof plan, with markings showing where the exhaust fans, adjacent buildings, property lines, and air intakes are located.</p>	
<p>COMMERCIAL SYSTEM – HOOD</p>	
<p>1) Mechanical contractor shall submit plans.</p>	
<p>2) Wall details showing construction of wall behind hood detailed on plans.</p>	
<p>3) Hood height and ceiling height detailed on plans with ceiling to hood interface shown.</p>	
<p>4) Hood system components are to be separated 18" from combustible material, 3" from limited combustible material, 0" from non-combustible material or as detailed in listing. [4.2]</p>	
<p style="padding-left: 20px;">a. Clearance reductions provided. [4.2.3]</p>	
<p>5) Protection provided on the wall from the bottom of the hood to the floor, or to the top of the non-combustible material extending to the floor. [4.2.4.3]</p>	
<p>6) Hood constructed of steel ≥0.043" (18 gauge) steel, ≥0.037" (20 gauge) stainless steel, or as listed. [5.1.1]*</p>	
<p>COMMERCIAL SYSTEM – DUCTS</p>	
<p>7) Ductwork is to be shown from the hood to exhaust location.</p>	
<p style="padding-left: 20px;">a. Ducts shall not pass through fire walls. [7.1.1]</p>	
<p style="padding-left: 20px;">b. Ducts shall lead directly to the exterior of the building [7.1.2]</p>	
<p style="padding-left: 20px;">c. Ducts shall not be interconnected with any other building ventilation or exhaust systems. [7.1.3]</p>	
<p style="padding-left: 20px;">d. Openings provided at the sides or tops of the duct, at changes in direction, and on every floor where entry is not provided. [7.3.1, 7.4.2.2] Unless access is provided from the duct entry or discharge. [7.3.3]</p>	
<p>8) Ducts are to be separated 18" from combustible material, 3" from limited combustible material, 0" from non-combustible material or as detailed in listing. [7.2]</p>	
<p>9) Clearance from duct or exhaust fan to interior surface of enclosure of combustible construction ≥ 18", enclosure of noncombustible or limited-combustible construction ≥ 6". [7.7.2.2]</p>	
<p>10) Ducts are to be constructed of carbon steel ≥ 0.054" (16 gauge) thickness or ≥0.043" (18 gauge) thick stainless steel. [7.5.1]*</p>	
<p>11) Note on plans: <i>Butt welded joints shall not be permitted.</i> [7.5.5.2]</p>	
<p>12) Exterior installations are to be separated 18" from combustible material, 3" from limited combustible material, 0" from non-combustible material or as detailed in listing. [7.6.3]*</p>	
<p>13) Duct enclosures are to have a fire resistance rating equal to the barrier being penetrated, where breaching fire barriers. [7.7.1]</p>	

14) Duct enclosures in buildings < 4 stories in height are to be rated 1-hour minimum, ≥ 4 stories 2-hours minimum. [7.2.2.1]	
15) Openings in duct enclosure walls are protected by listed fire door assemblies with proper ratings [7.7.4.1]	
16) Multiple ducts in a single enclosure not permitted w/out AHJ approval. [7.7]	
COMMERCIAL SYSTEM – ROOFTOP TERMINATIONS	
17) Exhaust discharge shown with a minimum 10' horizontal clearance from outlet to adjacent buildings, property lines, and air intakes.(Plan to include dimensions) [7.8.2.1(1)]	
18) Exhaust discharge shown with a minimum 5' horizontal clearance from outlet (fan housing) to any combustible structure.(Plan to include dimensions) [7.8.2.1(2)]	
19) Show location of exhaust and all air intakes. Maintain a vertical separation of 3' when any air intakes within 10' of exhaust outlet.(Plan to include dimensions) [7.8.2.1(3)]	
20) Grease collection device provided. [7.8.2.1(4)(5)(6)(7)]	
21) A hinged upblast fan supplied with flexible weatherproof electrical cable and hold-open retainer, listed for the use, when: [7.8.2.1(8)]	
a. Fan attaches to the ductwork, that is a minimum 18" away from any roof surface, including roofing materials ran up the curbing.(Plan to include dimensions)	
b. Fan discharges at a minimum 40" from roof surface, including roofing materials ran up the curbing.(Plan to include dimensions)	
COMMERCIAL SYSTEM – WALL TERMINATIONS	
22) Terminates through non-combustible wall with minimum 10' clearance from outlet to adjacent buildings, property lines, grade levels, combustible construction, electrical equipment or lines, and closest point of any air intake or operable door or window below the plane of exhaust termination. [7.8.3(1)]	
23) Fan hinged with hold open retainer and supplied with flexible weatherproof electrical cable, listed for the use, supplied with a grease collection device. [7.8.3(7)]	
COMMERCIAL SYSTEM – AIR FLOW	
24) Air Velocity through the duct detailed to not be less than 500 feet per minute. [8.2.1.1]*	
25) Hood exhaust system operates automatically during cooking operations (gas installation). [IFGC 505.1.1]	
COMMERCIAL SYSTEM – SOLID FUEL COOKING	
26) Spark arrester provided. [14.1.6 & 14.1.7]	
27) Exhaust system separated from all other exhaust systems. [14.3.3]	
28) Wall termination not permitted. [14.4.4]	
29) All solid fuel appliances with fire boxes of 5 cubic feet of volume or less are to be provided with minimum 2A rated water-type fire extinguisher or a 1.6 gallon wet chemical fire extinguisher listed for Class K fires per NFPA 10 in the immediate vicinity of the appliance. [14.7.8]	
30) Solid fuel cooking appliances are to be installed on floors of noncombustible construction that extend 3' in all directions from the appliance unless the appliance is listed for a smaller clearance. [14.9.1]	
31) Where fuel is stored in the same building as the solid fuel appliance, fuel shall be stored only in areas with walls, floors, and ceilings of non-combustible construction ≥3' past the outside dimensions of the pile of stored material. [14.9.2.5]	
32) All fuel storage piles ≤5' are provided with a portable fire extinguisher. [14.7.8]	
33) All fuel storage piles >5' are required to be protected by automatic sprinkler installed per NFPA 13 and acceptable to the AHJ. [14.9.2.8]	

¹ The above is not an all-inclusive list, all applicable fire and life safety provisions must be met.

*Asterisk denotes that items can be addressed as noted on the plans in lieu of drawn detail.

Notes: _____

Reviewer: _____ Date: _____