



Athens-Clarke County Fire & Emergency Services



3.1.2 Commercial Cooking Plan Review

Reviewer: _____

Date: _____

Job Name: _____

Address: _____

City: _____ Zip: _____

Complex Name: _____

General Building Information

Construction Type: _____ Stories? Height (ft): _____

Company Name: _____ Phone: (____) ____ - ____

Contact Email: _____

State License # _____

Sprinkler System: 13: 13R: N/A: Voice Evacuation Y: N: N/A:

Fire Pump Present: Y: N: N/A: Special Locking Arrangements Y: N: N/A:

Fire Alarm Present: Y: N: N/A:

Review Date: _____ Approved or Disapproved

NOTE: The designer must complete the form before plans are reviewed.

700 College Avenue

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COMMERCIAL SYSTEM - HOOD	OK	Absent
1. The Mechanical contractor shall submit plans.		
2. Wall details showing the construction of the wall behind the hood are detailed on the plans.		
3. Hood height and ceiling height are detailed on plans with the ceiling-to-the-hood interface shown.		
4. Hood system components are to be separated 18" from combustible material, 3" from limited combustible material, and 0" from non-combustible material or as detailed in the listing. [4.2]		
5. Clearance reductions provided. [4.2.3]		
6. Protection is 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]		
7. Hood constructed of steel $\geq 0.043"$ (18 gauge) steel, $\geq 0.037"$ (20 gauge) stainless steel, or as listed. [5.1.1]*		
COMMERCIAL SYSTEM - DUCTS		
8. Ductwork is to be shown from the hood to the exhaust location.		
9. Ducts shall not pass through firewalls. [7.1.1]		
10. Ducts shall lead directly to the exterior of the building [7.1.2]		
11. Ducts shall not be interconnected with any other building ventilation or exhaust systems. [7.1.3]		
12. Openings are 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]		
13. Ducts are to be separated 18" from combustible material, 3" from limited combustible material, and 0" from non-combustible material or as detailed in the listing. [7.2]		
14. Clearance from duct or exhaust fan to the interior surface of enclosure of combustible construction $\geq 18"$, enclosure of noncombustible or limited-combustible construction $\geq 6"$. [7.7.2.2]		
15. Ducts are to be constructed of carbon steel $\geq 0.054"$ (16 gauge) thickness or $\geq 0.043"$ (18 gauge) thick stainless steel. [7.5.1]*		
16. Note on plans: <i>Butt-welded joints shall not be permitted.</i> [7.5.5.2]		
17. Exterior installations are to be separated 18" from combustible material, 3" from limited combustible material, and 0" from non-combustible material or as detailed in the listing. [7.6.3]*		
18. Duct enclosures are to have a fire-resistance rating equal to the barrier being penetrated, where breaching fire barriers. [7.7.1]		

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COMMERCIAL SYSTEM - DUCTS	OK	Absent
19. Duct enclosures in buildings < 4 stories in height are to be rated 1 hour minimum, > four stories 2 hours minimum. [7.2.2.1]		
20. Openings in duct enclosure walls are protected by listed fire door assemblies with proper ratings [7.7.4.1]		
21. Multiple ducts in a single enclosure are not permitted w/out AHJ approval. [7.7]		
COMMERCIAL SYSTEM – ROOFTOP TERMINATIONS		
22. Exhaust discharge shown with a minimum 10' horizontal clearance from the outlet to adjacent buildings, property lines, and air intakes. (Plan to include dimensions) [7.8.2.1(1)]		
23. Exhaust discharge shown with a minimum 5' horizontal clearance from the outlet (fan housing) to any combustible structure. (Plan to include dimensions) [7.8.2.1(2)]		
24. Show the location of the exhaust and all air intakes. Maintain a vertical separation of 3' when any air intakes within 10' of the exhaust outlet. (Plan to include dimensions) [7.8.2.1(3)]		
25. Grease collection device provided. [7.8.2.1(4)(5)(6)(7)]		
26. 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 of 18" away from any roof surface, including roofing materials that ran up the curbing. (Plan to include dimensions) b) Fan discharges at a minimum of 40" from the roof surface, including roofing materials running up the curbing. (Plan to include dimensions)		
COMMERCIAL SYSTEM – WALL TERMINATIONS		
27. 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)]		
28. 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 – AIRFLOW		
29. Air Velocity through the duct is detailed not to be less than 500 feet per minute. [8.2.1.1]*		
30. The Hood exhaust system operates automatically during cooking operations (gas installation). [IFGC 505.1.1]		

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COMMERCIAL SYSTEM – SOLID FUEL COOKING	OK	Absent
31. Spark arrester provided. [14.1.6 & 14.1.7]		
32. Exhaust system separated from all other exhaust systems. [14.3.3]		
33. Wall termination is not permitted. [14.4.4]		
34. All solid fuel appliances with fireboxes of 5 cubic feet of volume or less are to be provided with a 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]		
35. 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]		
36. 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 $\geq 3'$ past the outside dimensions of the pile of stored material. [14.9.2.5]		
37. All fuel storage piles $\leq 5'$ are provided with a portable fire extinguisher. [14.7.8]		
38. 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]		

The above is not an all-inclusive list - Plans must meet all NFPA, International Fire Code and State of Georgia requirements. Please refer to chapter 120-3-3 Rules and Regulations of the Safety Fire Commissioners website.

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