

Sweetwater Fire Department

900 East Broadway | Sweetwater, Texas 79556

Phone: (325)235-4304 | Email: jsmith@coswtr.org



COMMERCIAL KITCHEN HOOD WORKSHEET/CHECKLIST

Two copies of this worksheet/checklist must accompany plan sets submitted with commercial kitchen range hood permit applications. It explains and organizes the information needed by the code officials to efficiently review plans and issue permits. The applicant is responsible for assuring the accuracy and consistency of the information.

A. Project Address: _____

B. Established use and history of building:

Is it an existing restaurant, food processing area, or food service area: YES NO

C. Location of exterior ductwork and mechanical equipment.

1. Is ductwork or mechanical equipment located outside the building other than the roof top? YES NO

2. Applicant shall provide plan and elevation views showing ductwork, duct enclosure, hood, cooking surface air supply, exhaust system, and equipment support including structural detail.

D. Type of hood:

1. For grease and smoke removal: (IMC 507.2) Type I _____ Quantity
 (Example: Deep fryers, char broilers, grill, pizza ovens, and all solid-fuel appliances)

2. For steam, vapor, heat, or odor removal: (IMC 507.3) Type II _____ Quantity
 (Example: Steamer, pastry dishwashers)

(Note: Solid-fuel cooking systems require a separate exhaust system.)

E. Type of materials and gauge: (IMC 506.3.1.1, 507.4, 507.5)

| | TYPE I | | | TYPE II | |
|------------------------|------------------|-----------|-----------|---------------------------|------------|
| | Type of Material | Min. Req. | Proposed | Minimum Req. | Proposed |
| Duct and Plenum | Stainless Steel | 18 Ga. | _____ Ga. | 26 Ga. up to 12" diameter | _____ Ga. |
| | Galvanized Steel | 16 Ga. | _____ Ga. | 22 Ga. up to 30" diameter | _____ Ga. |
| Hood | Stainless Steel | 20 Ga. | _____ Ga. | Stainless steel 24 Ga. | _____ Ga. |
| | Galvanized Steel | 16 Ga. | _____ Ga. | Galvanized steel 22 Ga. | _____ Ga. |
| Flashing | Stainless Steel | 22 Ga. | _____ Ga. | Not required | N/A |
| | Galvanized Steel | 22 Ga. | _____ Ga. | | |

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F. Exhaust outlet location: (IMC 506.3.13)

- | | Min. Required | Proposed |
|--|-------------------------------------|------------------------|
| 1. Terminating above the roof: | Type I – 40 in. Type II – 24 In. | _____ in. _____ in. |
| 2. Terminating out of a side wall, hood exhaust shall not be located within 3 feet of any door or window and shall not create a public nuisance. | | |

G. Slope of duct and cleanout access: (IMC 506.3.7, 506.3.8)

- | | | |
|--|----------------------|------------------------|
| 1. Horizontal duct up to 75' long | Min. slope ¼ in./ft. | Proposed _____ in./ft. |
| More than 75' long | Min. slope 1 in./ft. | Proposed _____ in./ft. |
| 2. Tight fitting cleanout doors shall be provided at every change in ductwork direction. Total number proposed: _____ | | |

H. Multiple hood venting: (IMC 506.3.5)

1. Hoods vented by a single duct system must meet all four of the following conditions:
 - a. Located within the same story of the building
 - b. Within the same or adjoining room of the building
 - c. Ducts do not penetrate assemblies required to be fire-resistance rated.
 - d. The ducts do not serve solid fuel fired appliances.

I. Fire suppression system: (IFC 904.2.2)

1. Fire suppression system shall be installed per fire code.
2. Portable fire extinguishers shall also be provided per fire code.
3. Fire suppression systems shall be installed with shutoff that initiates automatically when the system is activated.

J. Performance test: (IMC 507.6)

1. A performance test shall be performed for final approval. The test shall verify proper operation of the hood system and any suppression systems required.

References:

1. International Mechanical Code 2018 (IMC)
2. International Fire Code 2018 (IFC)
3. International Building Code 2018 (IBC)