LIVERMORE
CALIFORNIA

TYPE I EXHAUST HOOD REQUIREMENTS

2007 CALIFORNIA MECHANICAL CODE, CHAPTER 5, PART II:

1. Hoods shall be installed at or above all equipment which produce significant amounts of steam, smoke, grease or heat. CMC Section 508.
2. Type I hoods shall be constructed of at least 0.043 inch (18 gage) steel or 0.037 inch (20 gage) stainless steel. CMC Section 508.1.1.
3. Type II hoods shall be constructed of at least 0.0024 inch (24 gage) steel. CMC Section 508.1.1 Exception 2.
4. Hoods shall be secured in place by noncombustible supports. CMC Section 508.1.1.
5. Type I hoods less than 12" from the ceiling or wall shall be flashed solidly in accordance with CMC Section 509.4.
6. Grease filters for Type I hoods shall be easily accessible and removable for cleaning. CMC Section 509.2.4.2.
7. Grease drip trays shall drain to an enclosed metal container with a capacity not exceeding 1 gallon. CMC Section 509.2.5.1.
8. Provide Type I hood grease duct details showing, as a minimum, the following:
   a. Grease ducts and plenums serving a Type I hood shall be at least 0.055-inch-thick (16 gage) steel or stainless steel at least 0.044 inch in thickness (18 gage). CMC Section 510.5.1.
   b. Weld or braze all duct joints and seams on the external surface. CMC Section 508.2 & 510.5.2.1.
   c. Duct bracing and supports shall be of noncombustible material, securely attached to the structure and designed to carry gravity and lateral loads. Fasteners shall not penetrate duct walls. CMC Section 510.1.7.
   d. Duct systems shall slope at least ¼"/foot toward an approved grease reservoir. CMC Section 510.1.4.
   e. Provide adequate cleanout openings for thorough cleaning of duct system. CMC Section 510.3.4.5.
   f. The grease duct must be enclosed in a one-hour fire-resistance rated shaft (two-hour in Type I and II construction) CMC Section 5107.1.1 [SFM].
   g. Access doors, fire-rated equal to the rating of the shaft, must be provided in the shaft wherever a cleanout is provided in the duct. CMC Section 510.7.5.

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h. Air velocity within the duct system shall not be more than 2500 fpm. CMC Section 511.2.1.

i. Exhaust-air volumes shall be sufficient to capture and remove grease-laden vapors. Provide acceptable test data or calculations. CMC Section 511.2.2

j. A minimum separation of 3” is required from combustible construction that is protected with material required for one-hour fire-resistive construction. CMC Section 507.2. Also see Section 510.7

k. The exhaust outlet shall extend through the roof and be at least 40 inches above the roof surface, at least 10 feet from parts of the building, property line and air-intakes. CMC Section 510.8.2.1.

l. Replacement air shall be adequate to prevent negative air pressure. CMC Section 511.4.

10. Solid-fuel hood assemblies shall comply with CMC Section 517.0.