

DPD

Director's Rule 6-2005

Applicant: City of Seattle Department of Planning & Development	Page 1 of 3	Supersedes: DR 14-98
	Publication: 12/2/04	Effective: 1/1/2005
Subject: Commercial Kitchen Exhaust Hood and Ducts: Standard Alternates For Exhaust Duct Termination at Locations Other than the Building Rooftop	Code and Section Reference: Seattle Mechanical Code Sec. 506.3.12	
	Type of Rule: Code Interpretation	
	Ordinance Authority: SMC Section 3.06.040	
Index: Mechanical/Technical Requirements	Approved (signature on file) Diane M. Sugimura, Director	Date 12/18/04

BACKGROUND

The Seattle Mechanical Code (SMC) requires that Type I commercial kitchen exhaust outlets must extend through the roof of a building unless otherwise approved by the Building Official. See Section 506.3.12.2 of the Seattle Mechanical Code. Under the Department's authority to approve code alternates, this rule sets forth conditions under which a Type I exhaust system may terminate at a side wall. This rule also allows Type II commercial hoods to terminate at an exterior wall.

RULE

A. For commercial kitchen exhaust systems with Type I hoods to terminate at locations other than the roof, the following conditions, as well as all other requirements for Type I hood and duct installation, shall apply.

1. A centrifugal extractor or electrostatic precipitator to remove grease, smoke and particulates from the exhaust shall be provided.
2. Odor removal filtration shall be provided.
3. All duct work and mechanical equipment shall be enclosed in a rated shaft or other enclosure equal to the fire resistive rating of the walls, floors, and ceiling assemblies being penetrated, but in no case less than one-hour fire-resistive construction from the first point of penetration to the outside. The enclosure shall comply with all other requirements of Section 506.3.10 of the Mechanical Code.
4. Equipment used to satisfy requirements above shall be protected with a fire suppression system approved by the Seattle Fire Department.
5. Duct interiors shall be protected by an approved fire suppression system every 10 feet of horizontal run and at changes of direction, or as specified in the listing.
6. The discharge outlets shall be not less than 10 feet above the sidewalk or other walks, drives, streets or alleys. Whenever any portion of the exhaust outlet protrudes beyond the property line over a public place, it is subject to the permit requirements of the Seattle Department of Transportation (SDOT). No portion of an exhaust outlet shall protrude into a public place less than 16 feet above the ground. All necessary street use permits are the responsibility of the applicant.
7. The discharge outlet shall be not less than 10 feet from ANY window or other openings unless such windows are non-openable and glazed with tempered or wired glass set in fixed sash.
8. Exhaust shall be directed upward and away from all adjacent public areas.

B. Commercial Type I hood exhaust systems that must travel more than five stories or sixty vertical feet to the roof may terminate at an exterior wall, provided they meet all code provisions other than the roof termination requirements of Section 506.3.12.1 of the Mechanical Code. The following requirements also shall be met:

1. The hood shall not exceed six (6) feet in length.
2. The hood shall not exceed a total area of 18 square feet.
3. The exhaust shall not exceed 1,800 CFM.
4. No broilers shall be installed under the hood.
5. No grease appliance exceeding a total of forty (40) pounds of grease rated by the manufacturer shall be installed under such hoods.

6. There shall only be one Type I hood per restaurant.
7. The interior of the duct shall be protected by an approved fire suppression system every 10 feet of horizontal duct run, or as specified in the listing. A cleanout shall be provided at each of these locations, or as specified in the listing.
8. The duct system shall be cleaned twice yearly by a licensed contractor and tagged to show the date of such cleaning.
9. The discharge outlets shall be not less than 10 feet above the sidewalk or other walks, drives, streets or alleys. Whenever any portion of the exhaust outlet protrudes beyond the property line over a public place, it is subject to the permit requirements of the Seattle Department of Transportation (SDOT). No portion of an exhaust outlet shall protrude into a public place less than 16 feet above the ground. All necessary street use permits are the responsibility of the applicant.
10. The discharge outlet shall be not less than 10 feet from ANY window or other openings unless such windows are glazed with tempered or wired glass set in fixed sash.
11. Exhaust shall be directed upward and away from all adjacent public areas.

C. Commercial Type II hood exhausts may terminate at an exterior wall.

REASON:

The availability of equipment which is capable of filtering and processing grease-laden vapors provides the opportunity to design and build alternates which offer equivalent safety and environmental features. Retrofits of existing buildings sometimes necessitate the consideration of alternates.