

City of Pittsburgh

Worksheet for Commercial Cooking Hood & Exhaust System

A separate worksheet, for each hood, must be completed and signed by the registered design professional, whose seal is on the submittal drawings!

Please complete all sheets.

Street address: _____.

Location of hood (1st floor, 4th floor, etc.): _____.

Name of establishment: _____.

Hood Information

Designation of hood on the drawings (hood # 1, #3, etc.) _____.

Type I _____ Type II _____ Length: _____ Width: _____.

Hood material: _____ Gage (thickness): _____.

Clearance to combustible framing members _____ Mounting height: _____.

Does any portion of the hood penetrate a ceiling, wall or furred space? Yes: ____ No: ____

Distance between the lowest edge of grease filters and cooking surface: _____.

Distance hood overhangs cooking surface: Front ____ Rear ____ Left ____ Right ____.

Vertical distance between lip of hood and cooking surface: _____.

Calculate the required minimum amount of air exhausted using one of the formulas below.

U.L. 710 Listed Hoods: _____ total cfm (Provide Manufacturer's Documentation)

Minimum quantity permitted by section 507 of the IMC:

Heaviest duty appliance under hood: _____ (Extra-Heavy, Heavy, Medium or Light Duty)
(A list of appliances are provided under each category in chapter 2 of the IMC)

Hood Linear ft. _____ X IMC CFM/Linear ft _____ = _____ cfm (total)

Quantity of makeup air from outdoors: _____ cfm. Temperature of makeup air: _____ °F.

Type of suppression system: _____.

Distance of manual pull from cooking hood: _____ ft. Height of pull: _____ ft.

Does activation of the suppression system shut down the gas and electric under hood: __Y__N

EXHAUST DUCT

Duct material: _____ Gage: _____ Type of joints: _____

Rectangular dimensions: _____ inches. X _____ inches. Round diameter _____

Total length of duct, between hood and exhaust fan: _____ ft. Vertical: _____ ft. Horizontal _____ ft.

Slope of horizontal sections: _____ inch per foot or _____ % slope.

Duct systems clearance to combustible construction (including gypsum wallboard) _____ inches.

Number of cleanouts: _____. Size: _____ in. x _____ in. Spacing: _____ ft.

Show calculated air velocity within the duct enclosure using the formula below;

$$CFM \text{ _____ } / \text{ Duct Area } \text{ _____ Sq. Ft. } = \text{ velocity } \text{ _____ fpm. } |$$

Does the duct penetrate a ceiling, wall or floor? _____. If yes, check the method of enclosure

Used: A 2 hour rated shaft A listed through-penetration fire stop system

Location of exhaust fan: rooftop or exterior wall: _____. Exhaust capacity: _____ cfm.

For roof exhausts: clearance above roof surface: _____ inches - Distance to roof's edge _____ ft.

Parapet walls, not higher than fan discharge: _____ ft. For all exhaust terminations:

Distance to lot line: _____ ft. Distance to other buildings: _____ ft. Distance to any air intake opening: _____ ft. For exterior wall terminations: Height above grade: _____ ft.

How is the exhaust fan interlocked with fuel fired appliances, so as to prevent their operation, unless the fan is running? _____.

Signature of registered design professional: _____

State registration number: _____. Date _____ / _____ / _____