

20 E Olive Street STE 208 • PO Box 1230 Bozeman, MT 59771-1230

Phone: (406) 582-2375

permits@bozeman.net

Contractor	<u>Commercial Kitchen Hood Systems Checklist</u> Facility Project Address				
Plan View Plan View Back-shelf Hood Double Island Canopy Hood Back-shelf Hood Double Island Canopy Hood Back-shelf Hood Double Island Canopy Hood Back-shelf Hood Back-shelf Hood Double Island Canopy Hood Back-shelf Hood	Contractor Phone Number				
Compensating Hood					
Compensating Hood	☐ Plan View ☐ Elevation ☐ Section ☐ Electrical Plan ☐ Gas Plan				
Eyebrow Hood Pass-over Hood Galvanized Steel Makeup Air CFM UMC 506 - Hood Ventilation System Ducts and Exhaust Equipment Ducts Serving Type I Hoods-UMC 506.3 UMC 506 - Hood Ventilation System Ducts and Exhaust Equipment Ducts Serving Type I Hoods-UMC 506.3 UMC 506.3.1 - Grease duct materials: galvanized 16 gage, stainless 18 gage. UMC 506.3.2 - Grease Duct Joints, seams or penetrations continuously welded or brazed. UMC 506.3.2 - Duct-to-exhaust fan connection: flanged, gasketed and bolted. UMC 506.3.2 - Vibration isolation: Listed non-combustible packing in metal sleeve joint or listed coated-fabric flexible duct connector, connected only at the duct to fan inlet or outlet connection. UMC 506.3.3 - Grease duct bracing and support: non-combustible material securely attached to the structure, bolts, screws, rivets and other mechanical fasteners shall not penetrate the duct walls. UMC 506.3.4 - Velocity: not less than 500 feet per minute. UMC 506.3.6 - Grease duct clearances: not less than 18" from combustibles or 3" from gypsum wallboard attached to non-combustible structures. UMC 506.3.7; 506.3.8; 506.3.9 - Grease accumulation and cleanout requirements. UMC 506.3.12.1 - Termination above roof: not less than 40" above the roof. UMC 506.3.12.2 - Termination through exterior wall: does not create a public nuisance, not where protected openings are required and not within 3' of other exterior openings. UMC 506.12.3 - Termination location: 10' horizontally from buildings, property lines, air intake openings and 10' above grade. Exception: Five feet if air discharges away from such locations. Ducts Serving type II Hoods - UMC 506.4 UMC 506.2 - Ducts shall be protected against corrosion. UMC 401.4 - Opening location: 10' horizontally from buildings and property lines.					
Wall Canopy Hood Stainless Steel Galvanized Steel Hood Cleaning Maintenance Schedule	☐ Compensating Hood ☐ Back-shelf Hood ☐ Double Island Canopy Hood				
Sheet Copper	☐ Eyebrow Hood ☐ Pass-over Hood ☐ Single Island Canopy Hood				
Calculated CFM	☐ Wall Canopy Hood ☐ Stainless Steel ☐ Galvanized Steel				
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openings.					
UMC 401.4.2 - Exhaust openings; shall be located so as not to create a nuisance, nor be directed onto walkways.					
☐ UMC 506.4.1 - Exterior exhaust outlets: Shall meet IBC requirements for exterior wall opening protectives.					

DO **NOT** OPERATE HOOD UNTIL INSPECTION HAS BEEN PERFORMED AND APPROVED

con	UMC 506.4.2 - Ducts: constructed of rigid metallic materials, construction per UMC chapter 6, positive pressure systems connected and joined in an approved manner.				
	Exhaust Equipment – UMC 506.5				
	UMC 506.5.1 - Exhaust fans serving Type I hoods: Constructed as required for a grease duct or per UL 762, fan located outside the air stream.				
	UMC 506.5.2 - Exhaust fan discharge: Will not impinge on roof, other equipment, appliances or parts of structure. Vertical discharge fans to have an approved drain outlet at lowest point of housing and grease reservoir.				
	UMC 506.5.3 - Exhaust fan mounting: Up-blast fans shall be hinged and supplied with a flexible, weatherproof electrical cable to permit inspection and cleaning. Ductwork shall extend 18" above the roof surface.				
	UMC 506.5.4 - Clearances: exhaust equipment to maintain 18" clearance from combustibles.				
	$UMC\ 506.5.5\ -\ Termination:\ per\ UMC\ 506.3.12\ and\ 2'\ between\ the\ vertical\ discharge\ fan\ and\ parapets\ if\ fan\ housing\ is\ no\ taller$ than the parapet.				
	II. <u>UMC 507 - Commercial Kitchen Hoods General – UMC 507.1</u>				
	UMC 507.1 - Hoods shall be designed to capture & confine cooking vapors & residues & shall operate during cooking operations.				
	Type I & Type II Hood Requirements – UMC 507.2 UMC 507.2.1 - Type I hoods shall be installed where cooking appliances produce grease or smoke, such as occurs with griddles, fryers, broilers, ovens, ranges and wok ranges.				
	UMC 507.2.1.1 - Operation: Type I hood systems shall be designed and installed to automatically activate the exhaust fan whenever cooking operations occur. The activation of the exhaust fan shall occur through an interlock with the cooking appliances, by means of heat sensors or other approved methods.				
	UMC 507.2.2 - Type II hoods shall be installed where cooking or dishwashing appliances produce heat, steam or products of combustion and do not produce grease or smoke, such as steamers, kettles, pasta cookers and dishwashing machines (some exceptions apply).				
	UMC 507.2.3 - Domestic cooking appliances used for commercial purposes shall be provided with Type I or Type II hoods as required for the type of appliances and processes proposed.				
	UMC 507.2.4 - Type I hoods over extra-heavy duty cooking appliances used for commercial shall discharge to an exhaust system that is independent of other exhaust systems.				
	UMC 507.3 - Where vented fuel burning appliances are located in the same room or space as the hood, provisions shall be made to prevent the hood system from interfering with the appliance's operation.				
	UMC 507.4 - Type I hood materials: steel 18 gage, stainless 20 gage in thickness.				
☐ UMC 507.5 - Type II hood materials: steel 22 gage, stainless 24 gage, copper 24 oz/sq. ft.					
	UMC 507.6 - Supports: Type I hoods shall be secured by non-combustible supports.				
	$UMC507.7.1\ -\ Type\ I\ hoods:\ external\ hood\ joints, seams, \&\ penetrations\ shall\ be\ made\ with\ a\ continuous\ external\ liquid,\ tight\ weld\ or\ braze.$				
	UMC 507.7.2 - Type II hoods: Joints, seams and penetrations shall be as set forth in UMC Chapter 6, shall be sealed on the interior of the hood and shall provide a smooth surface that is readily cleanable and watertight.				
	UMC 507.8 - A hood shall be designed to provide for thorough cleaning of the entire hood. Grease gutters shall drain to an approved collection receptacle that allows access for cleaning.				
	UMC507.9-TypeIhoodclearances:notlessthan18"fromcombustibles.Clearancefromgypsumwallboardattachedtonon-combustiblestructuresisnotrequiredifasmooth,cleanable,non-absorbent,andnon-combustiblematerialextends18"beyondthehood.				
	$UMC\ 507.12\ -\ The\ hood\ shall\ extend\ a\ minimum\ of\ 6\ inches\ past\ the\ edge\ of\ the\ appliances\ and\ shall\ be\ no\ more\ than\ four\ feet\ above\ the\ surface\ of\ the\ appliances.$ The front\ edge\ of\ the\ hood\ may\ be\ flush\ with\ the\ appliances\ when\ the\ rear\ wall\ of\ the\ appliance\ space\ is\ constructed\ of\ noncombustible\ materials.				
	UMC 507.13 - Capacity of Hoods: Commercial food service hoods shall exhaust a minimum net quantity of air as determined by the multipliers below based on the length of the hood. The heaviest duty appliance type covered by the hood shall be used for the entire hood.				
	UMC 507.13.5 - Dishwashing appliances: Minimum net airflow for a Type II hood shall be 100 CFM per linear foot.				

Extra-Heavy-Duty Cooking Appliance – Type I Hood				
	Hood Type Double Island Canopy (per side) Single Island Canopy	CFM/linear Foot of Hood 550 700		
Hoor	Wall-mounted Canopy	550		
пеач	y-Duty Cooking Appliance – Type I Hood	CEM /limeay Fact of Hood		
	Hood Type Back shelf/Pass-over	CFM/linear Foot of Hood 400		
	Double Island Canopy (per side)	400		
	Single Island Canopy	600		
	Wall Mounted Canopy	400		
Medi	um-Duty Cooking Appliance – Type I Hood			
	Hood Type	CFM/linear Foot of Hood		
	Back shelf/Pass-over	300		
	Double Island Canopy (per side)	300		
	Eyebrow	250		
	Single Island Canopy	500		
Liabt	Wall-mounted Canopy	300		
Ligit	t-Duty Cooking Appliance – Type I & Type II Hood	ome (III and a CVV)		
	Hood Type	CFM/linear Foot of Hood		
	Back shelf/Pass-over Double Island Canopy (per side)	250 250		
	Eyebrow	250		
	Single Island Canopy	400		
	Wall-mounted Canopy	200		
 III. Commercial Kitchen Makeup Air - UMC 508 UMC 508.1- Makeup air shall be supplied during the operation of commercial kitchen exhaust systems that are provided for commercial cooking appliances. The amount of makeup air supplied shall be approximately equal to the amount of exhaust air. For mechanical makeup air systems, the exhaust and makeup air systems shall be electrically interlocked. 				
	$UMC\ 508.1.1 \ \hbox{-} \ Makeup\ air\ temperature\ differential\ between\ makeup\ makeu$	p air and air in the conditioned space shall not exceed 10° F.		
	UMC 508.2 - Manufacturer's of compensating hoods shall provide a label indicating minimum exhaust flow and/or maximum makeup airflow that provides capture and containment of the exhaust effluent.			
	System Testing – UMC 506.3.3.1; 507.16; 507.16.1 UMC 506.3.3.1 - Grease duct test: Prior to the use or concealment of any portion of a grease duct system, a leakage test shall be performed in the presence of the code official. The permit holder will be responsible to provide the necessary equipment and perform the test (bare bulb light test).			
	UMC 507.16 - A performance test shall be conducted upon completion and before final approval of the installation of the commercial kitchen hood ventilation and exhaust system. The test shall verify the rate of exhaust and makeup airflow. The permit holder will be responsible to provide the necessary equipment and perform the test. Test shall be performed in the presence of the code official.			
	UMC 507.16.1 - Capture and containment test: The permit holder shall verify capture and containment performance of the exhaus system. This field test shall be conducted with all the appliances under the hood at operating temperatures, with all sources of ventilation and exhaust air functioning and containment visually observed with smoke or steam produced by actual or simulated cooking. Test shall be performed in the presence of the code official.			

 $\hfill \Box$ UMC 507.15 - Exhaust outlets shall not serve more than a 12 foot hood.