



**.1 Fume Hoods**

- .1 Design and install fume hoods to comply with recognized authorities (CSA, ASHRAE) as prescribed in Part 6 of the BCBC. Perform risk assessment to determine if fume hood and/or cabinets (including bio safety) should be connected to emergency power.
- .2 Ductwork shall be stainless steel type 316, 18 ga minimum, 2B finish except No. 4 finish where in exposed occupied spaces and shall be suitable for the gas and/or vapours carried from source to exhaust fan. Strong corrosive fumes may attack stainless steel and other materials may need to be specified.
- .3 Ducts from fume hoods shall be routed to the roof of the building as directly as possible for discharge above the re-circulation cavity boundary of the structure.
- .4 Horizontal ducts shall be kept to a minimum and shall be graded up in direction of air flow.
- .5 Exhaust fans shall have interior surfaces in contact with the air stream coated with a chemical resistant coating.
- .6 Canvas or any other flexible connections are not acceptable on the discharge side of the fan.
- .7 Provide control handles on the exterior of the fume hood for all fume hood services.
- .8 New fume hoods shall have flow monitors/alarms as per CSA standards.
- .9 Avoid sound attenuators on fume hood exhaust fans. Select fans with lower sound level instead.