



**.1 Ductwork**

- .1 All ductwork shall be metal, typically galvanized steel. Flexible ductwork is not acceptable.
- .2 Fume hood duct shall normally be 18 gauge, 316 stainless steel, continuously welded. Exceptionally corrosive situations may require more corrosion resistant materials.
- .3 Flexible duct of 300 mm maximum length is acceptable only on a horizontal branch duct to an individual diffuser to allow alignment with the ceiling grid. It may provide a maximum of 15 degrees change in direction. No flexible duct shall be used for diffuser necks.
- .4 Ductwork shall be to SMACNA standards excluding beaded, crimp joints and snaplock seams. Adjustable elbows must be the same gauge as the adjoining duct and only used if all sectional joints are sealed and secured in the installed position.
- .5 Ducts shall be sealed to SMACNA Seal Classification A or B as appropriate for the rated working pressure.
- .6 Specify access panel each side of heating coils.
- .7 Specify filter protection of heat recovery coils.
- .8 Motorized control dampers are strongly preferred over backdraft dampers.
- .9 Balance dampers of same material as the ductwork and shall have bushing-type bearings and a quadrant operator capable of locking the damper in a fixed position.
- .10 Avoid ductwork acoustical liners. Employ other methods acceptable to FMGT.