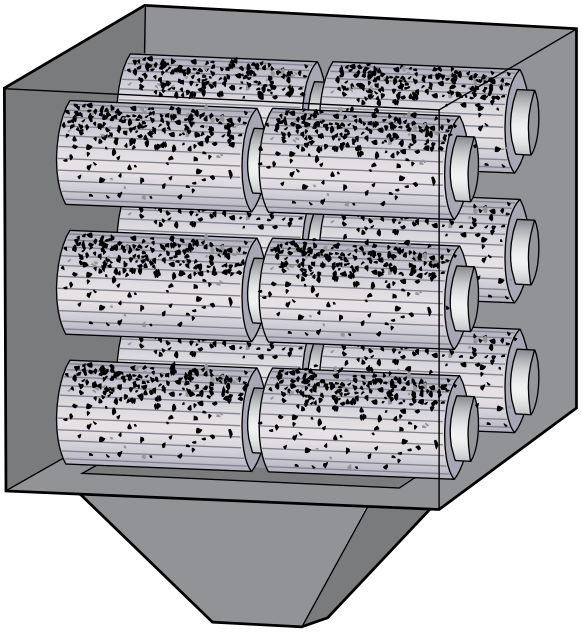
Horizontal Filters vs. Vertical Filters

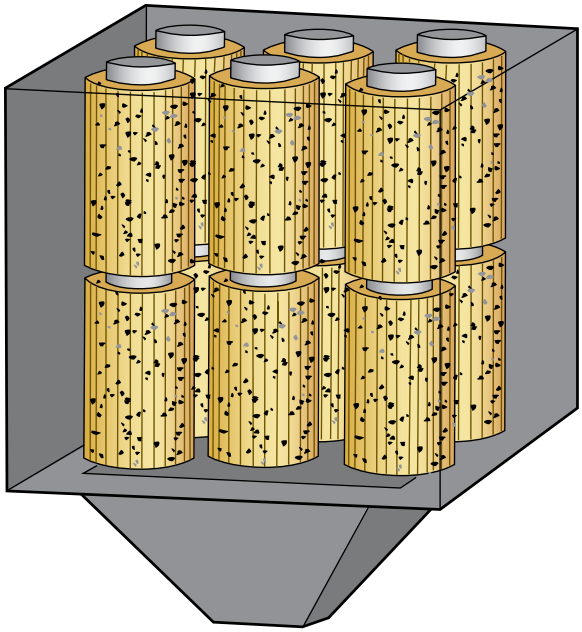
Horizontal Filters (or slightly inclined)

Top third of filter lost due to inability to shed particulate.



Vertical Filters

Even dispersal of particulate over entire filter.



The advantages of using vertical filters are significant. Vertical filters allow the dust to shed off the filter and fall directly down into the containment system, while the dirt from horizontal filters tends to shed off the bottom two-thirds only. The top third of a horizontal filter is lost in the first 10% - 20% of the filter's life. The life of the remaining two-thirds of the filter is drastically reduced due to the increase in air-to-cloth, resulting in an overall loss of 30% - 40% of the intended filter life. The only advantage in a horizontal filter dust collector is the ease of manufacturing, as it is much easier and simpler to build than a vertical filter dust collector.