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Elgee Industries (Formerly Kaleya Filters)

Aluminium Honeycomb Filters

Conformance to AS 1668.2-2012

AS1668.2-2012 section 3.3.2.4 refers to kitchen exhaust hood provided with a grease removal device in accordance with Paragraphs E5 and E6, Appendix E.

E5 KITCHEN EXHAUST HOODS INCORPORATING GREASE-REMOVAL FILTERS

- (a) Filter media and holding frame shall be constructed of rigid material not deemed combustible when tested in accordance with AS 1530.1.
- (b) The number, size and distribution of the filters shall be such that the air temperature and flow rate through each filter is within the manufacturer's design limits.
- (c) Filters shall be installed so as to prevent significant leakage of air around their perimeter.
- (d) The faces of filters shall be either vertical or sloped at an angle not greater than 30° from vertical.
- (e) The filters shall be fitted at exhaust openings of the hood so that any grease draining from filters is collected and disposed of without spilling or otherwise contaminating the kitchen area.
NOTE: An example would be a filter support channel designed to collect and convey grease into hood gutter.
- (f) The filters and the filter-retaining devices shall be flush-mounted to comply with Paragraph E3.4.2.
- (g) The filters shall be removable by hand, without the need of tools, for the purposes of their cleaning and the cleaning of the supports and the grease drainage devices, unless an in situ washing system is provided.

E5 Items b,c,d,e,f,g are related to installation and as per the attached test report conducted on 1 July 2013 we clearly conform to Item (a)

E6 KITCHEN EXHAUST HOODS INCORPORATING GREASE-REMOVAL DEVICES

Kitchen exhaust hoods incorporating grease-removal devices other than those in Paragraph E5 shall—

- (a) remove grease from the cooking vapours;
- (b) prevent grease from falling back onto food, the cooking appliance or floor;
- (c) provide for manual or automatic cleaning of grease-removal devices, and all internal surfaces of the device housing; and
- (d) be demonstrated to capture and remove cooking vapours and grease with efficiency at least equal to that of kitchen exhaust hoods complying with paragraph E5.

E6 is particular directed at devices **OTHER** than those in paragraph E5

However, we comment on these items:

- (a) Honeycomb filters are proven to be the most efficient removers of grease particulate in the exhaust airstream with the least air resistance.
- (b) Due to the low air resistance from these filters grease falling back onto food and or other areas is highly unlikely – provided the system is serviced in accordance with your contracted cleaning company's recommendations

Summary

More than 50,000 aluminium honeycomb filters are sold in Australia each year and have been proven over many years to be the most efficient grease collection filter.

Baffle Filters have been made mandatory in many other countries in an effort to reduce incidences of fire in kitchen areas, however our experience is that these filters dramatically increase the air resistance in the system requiring larger fan systems.

Furthermore, these filters have large slat areas increasing surfaces for grease to accumulate and drip back. They also do little to remove grease from the air stream and subsequently increase grease build up in the exhaust flu and fan system.

The standards clearly state paragraph E6 relates to devices **OTHER** than those in E5 – A filter.

On this basis it is very clear Elgee Honeycomb filters satisfy the requirements of AS1668 & AS1530.

However we recommend always these filters must be regularly cleaned and should be maintained by a professional filter exchange service who will advise on the most suitable frequency required for your application.

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