

FECON GREASE EXTRACT BAFFLE FILTER

The VIANEN FECON filter is designed to remove grease particles from the extract air stream of commercial kitchen ventilation systems. The interlocking semi-circular blades of the filter create multiple centrifugal forces as the air passes through the filter which ensures efficiency rates of 95% are achieved. The filters are mounted in the Plenum ceiling at an inclined angle of 45° and the non-clogging nature of the baffle filters allows the grease to run off the filters into integral drainage channels within the ceiling system. Each filter features two integral handles to make removal and refitting of the filters an easy operation. The filters are available in various sizes. The filter size is selected to match the Plenum ceiling extract airflow requirements; this means that the air velocity through the filter is at its optimum to ensure the highest level of grease extraction whilst guaranteeing a constant pressure drop over the filter. The FECON filter has been tested and is certified as an effective flame barrier i.e. no flame penetration through the filter in the event of a kitchen fire. Tested and Certified to DIN 4102.

CONSTRUCTION

VIANEN FECON filters are constructed entirely of type 304 stainless steel (1.0-1.2mm thick), folded and welded with an ultra fine grain polished finish. The 36 mm deep filter is provided with two integral handles for ease of handling. The top and bottom of the filter frame features slots providing a 10% free area which allows moisture and grease to easily drain away. All FECON filters are resistant to aggressive detergents and designed to fit in any commercial dishwasher for cleaning.

Advantages

- Highly efficient grease extract rate;
- Constant high level performance;
- Constructed entirely in stainless steel;
- Solid construction;
- Easily removed from the plenum;
- Proven and certified fire barrier (DIN 4102 & TNO);
- Designed to fit in any commercial dishwasher for cleaning.



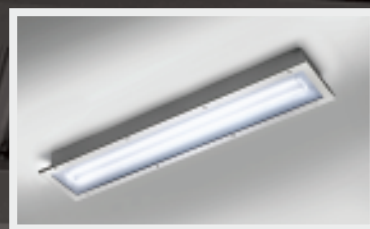
Certificates:

- NSF tested and approved for high levels of hygiene;
- TNO certified against penetration of flame through the filter in the event of a kitchen fire (DIN 102).
- UL certified.

V-ITL INTEGRATED LIGHT FITTINGS

The Plenum ceiling is fitted with V-ITL recessed fluorescent light fittings which are specifically designed for the VIANEN stainless steel Plenum ceiling. The light fittings comply with the requirements of IP54 and come complete with electrical terminal connection box. The frame is a seamless stainless steel construction and the "CREPI" glass is both heat and shock resistant. The frame is locked into position with captive quick release stainless steel screws and supported by two safety chains

TYPE	EXECUTION	TYPE	EXECUTION
V-ITL 118	1 x 18 W	V-ITL 218	2 x 18 W
V-ITL 136	1 x 36 W	V-ITL 236	2 x 36 W
V-ITL 158	1 x 58 W	V-ITL 258	2 x 58 W



- Standard electrical supply is 220/240V 50Hz;
- Vianen can offer lights to suit other electrical supply requirements;
- In-built emergency lights can also be incorporated in our designs upon request.

PLENUM CEILING



ADVANTAGES

- Allows flexible approach to layout of catering equipment
- Provides high level of hygiene
- Highly efficient grease extract rate
- Ensures ventilation of the kitchen area is properly balanced

PLENUM CEILING

DESCRIPTION

The VIANEN PLENUM Ventilated Ceiling is suitable for all types of medium and heavy duty cooking equipment and is a flexible solution for kitchen ventilation. The ceiling can be installed to cover the full area of a kitchen allowing flexibility in the layout of catering equipment and is easily adapted to serve the addition of further equipment.

The Plenums are fitted with VIANEN FECON Filters to ensure the highest levels of grease extraction. The filters are designed to allow the grease to run off the filters into an integral grease collecting channel and then into easily removable grease trays.

The provision of perforated supply air panels or grilles allow the introduction of supply / make-up air under draught free conditions to maintain a comfortable working environment and ensure the kitchen ventilation system is perfectly balanced.

The inclusion of V-ITL light fittings provide the correct levels of lighting in the kitchen areas where it is most needed. In all other areas removable matching stainless steel panels are installed to maintain the hygienic properties and highly aesthetic appearance of the ceiling. The ceiling has a constant exhaust pressure drop of 100 Pa and a supply air pressure drop of 40 Pa.

The Plenum Ventilated Ceiling is an "all in one" solution which extracts and supplies air and allows the integration of V-ITL lights to provide the perfect kitchen environment.

Working from kitchen layout drawings VIANEN will produce a fully integrated ceiling package, coordinated to match the requirements of both extract and supply air to ensure the kitchen ventilation system is properly balanced and works perfectly.

CONSTRUCTION

The VIANEN Plenum Ventilated Ceiling is fabricated entirely in type 304 stainless steel (1.0 – 1.2mm) thick. All visible surfaces are ultra fine grain polished (320 grit) and polythene protected. The plenums are cut, punched and folded into seamless sections up to 6m in length and factory assembled by means of computer controlled seam welds and non visible mechanical fixings. Joints are provided with internal cover-plates so that no joints or mechanical fixings are visible. All metal edges are rolled smooth and are free from sharp edges and projections.

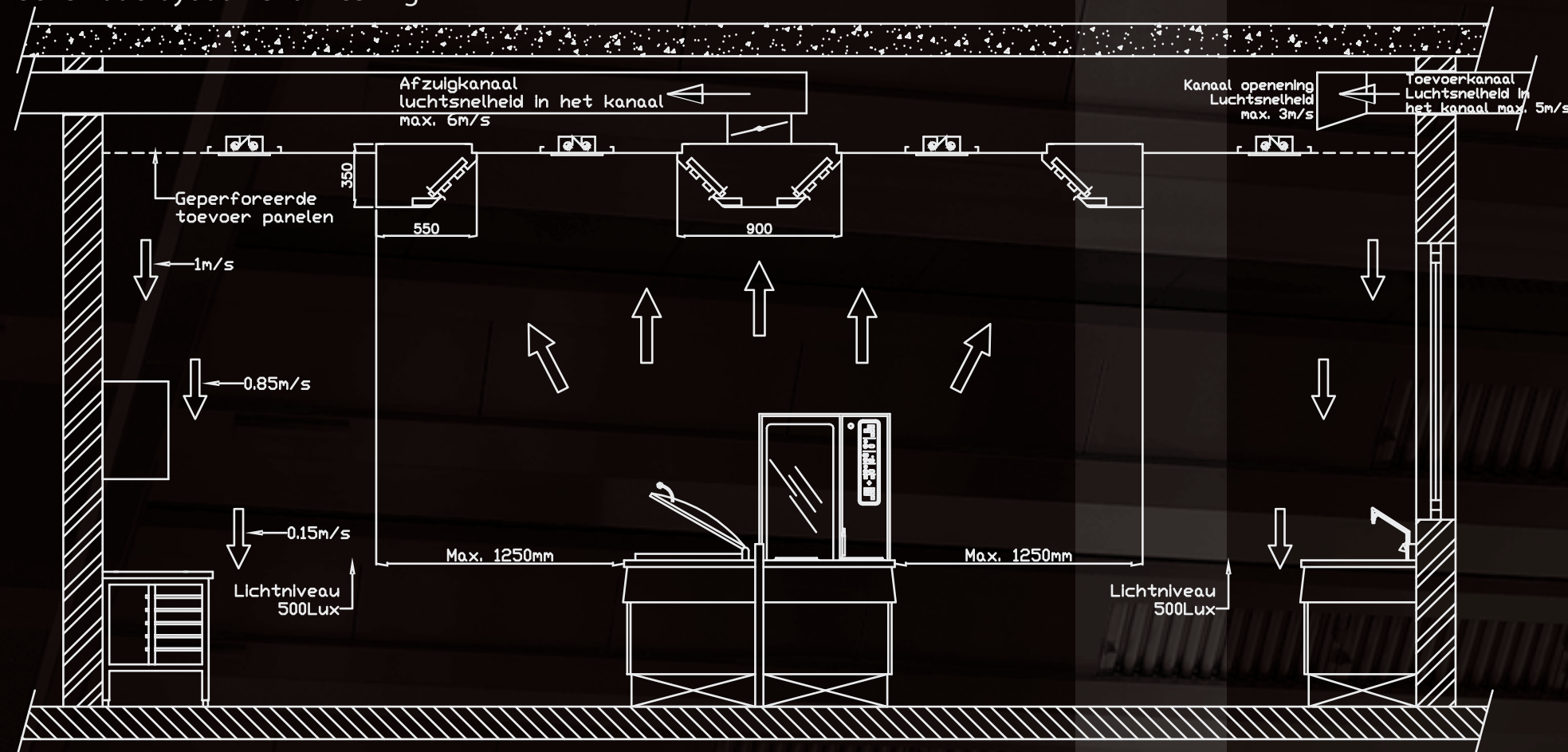
OPTIONAL

The Plenum Ventilated Ceiling is available with several options to further increase its efficiency and improve the working environment within the kitchen space.
 Water Wash (WW) and also Water Mist;
 Vianen UV-C Filtration System;
 Induction Air (only possible in certain cases);
 Fully automatic built-in fire suppression system.

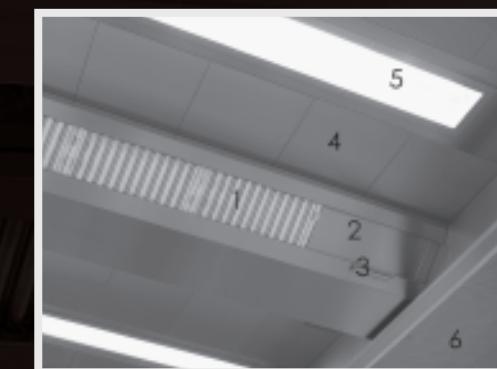
INSTALLATION

The VIANEN Plenum Ventilated Ceiling is custom made to suit each individual project and to ensure proper functionality and visual integrity. VIANEN employ their own trained installation teams to carry out all the necessary installation work to the highest standards.

Schematic layout Plenum ceiling



(Island) Plenum ceiling components



1. Fecon extraction filter
2. Blank filter
3. Grease tray
4. Flat ceiling
5. V-ITL Light unit
6. Perforated supply panel