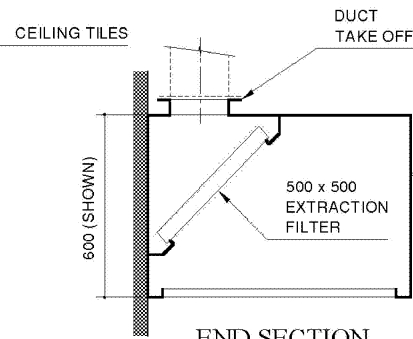
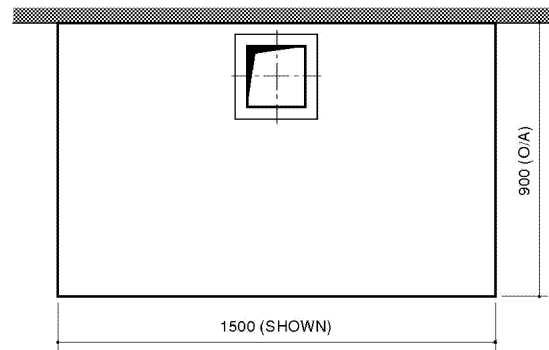


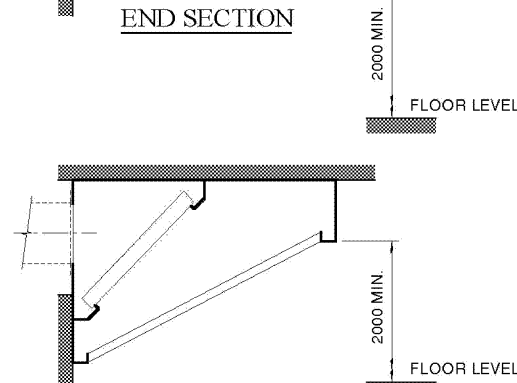
FRONT ELEVATION



END SECTION

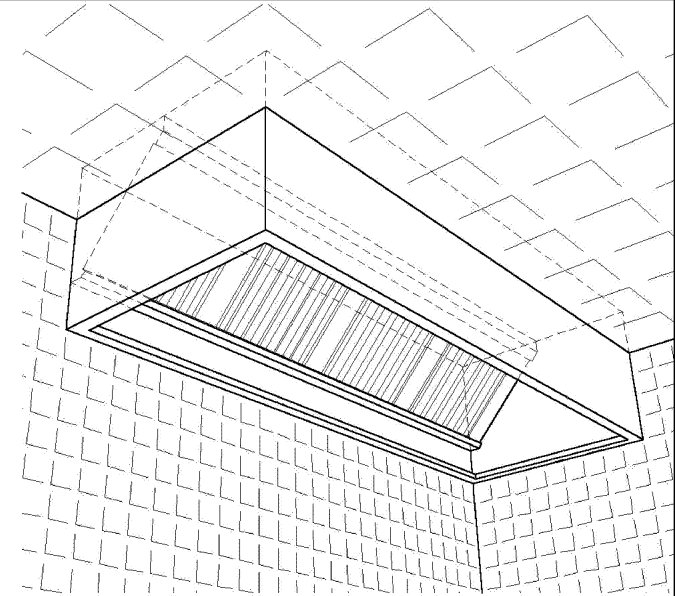


PLAN



ALTERNATIVE SECTION

(FOR LOW CEILINGS)



PERSPECTIVE

DIMENSIONS

Overall Width:-Optional
Typically 600-5000mm
Overall Depth:- Optional, 900mm or 1100 std
Overall Height:- To suit ceiling height

SPECIFICATIONS

From 18 swg (1.2mm) stainless steel.
Polished and grained finish, 180/220 grit.
Accommodates 500 x 500 grease filters.

SERVICES

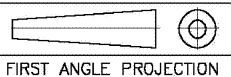
Dedicated air extract system including ducting, fan & controls.
Extract rating must be calculated for each individual installation.
Air Supply system if supply air is required.
Connection to lighting circuit for lighting option.

Extract Calculation

Width of Canopy in mm x Depth of Canopy in mm / 926 = Extract Rating in m3/hr.
eg (1500mm x 900mm)/926 = 1458m3/hr

Additional Options and Features available

- Custom Units- Custom units made to order.
- Materials- Available in both 304 and 430 stainless steels.
- Grease Filters- Supply of grease filters. Available in both baffle & mesh types. Size 500 x 500 standard, alternative sizes may be required for custom units.
- Duct Take-offs- As shown on top of canopy or alternatively, for low ceilings, take-offs may be positioned to rear or ends. Multiple take-offs for canopies above 3m long recommended.
- Supply Air- Incorporated into canopy.
- Lighting- Factory fitted within canopy. Additional electrical services required.
- Fire Suppressant System- Fitted within canopy.



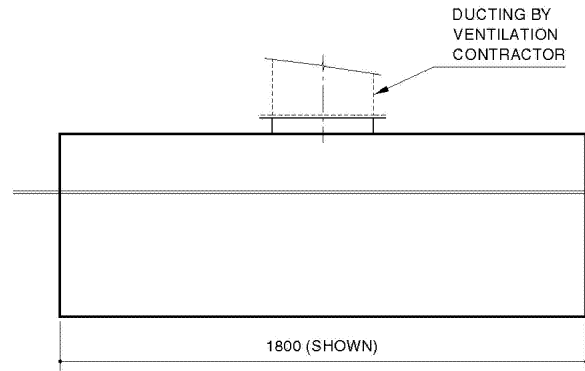
FIRST ANGLE PROJECTION



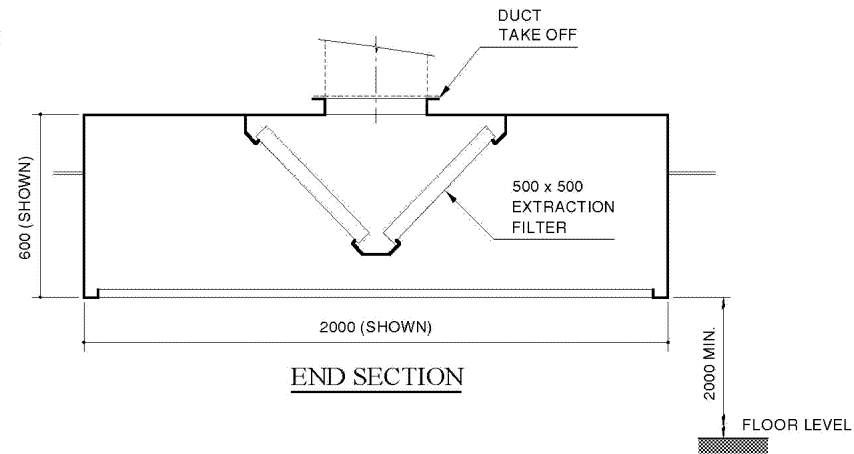
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ITEM
WALL EXTRACTION CANOPY

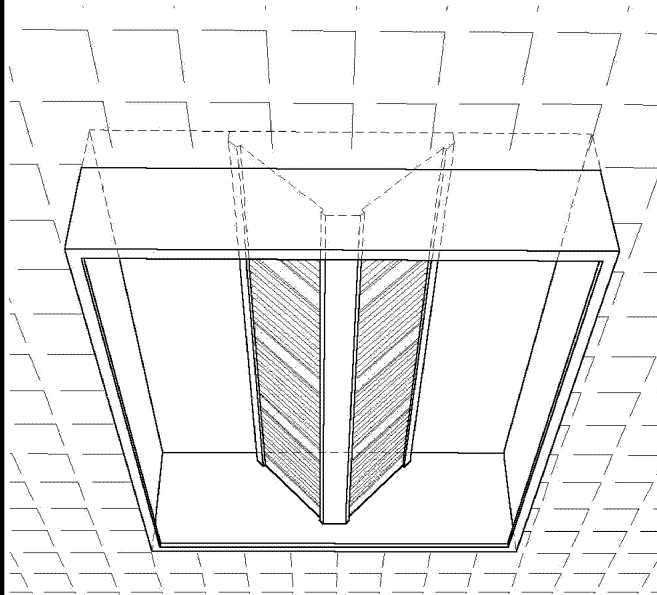
SCALE 1:25 **DATE** 12-04-'02 **DRG. No.** 1001



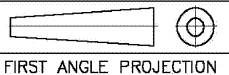
FRONT ELEVATION



END SECTION



PERSPECTIVE



FIRST ANGLE PROJECTION

DIMENSIONS

Overall Width:- Optional
 Typically 1800-5000mm
 Overall Depth:- Optional, 2000mm or 2400 std
 Overall Height:- To suit ceiling height

SERVICES

Dedicated air extract system including ducting, fan & controls.
 Extract rating must be calculated for each individual installation.
 Air Supply system if supply air is required.
 Connection to lighting circuit for lighting option.

Extract Calculation

Width of Canopy in mm x Depth of Canopy in mm / 926 = Extract Rating in m3/hr.
 eg (1800mm x 2000mm)/926 = 3888m3/hr

SPECIFICATIONS

From 18 swg (1.2mm) stainless steel.
 Polished and grained finish, 180/220 grit.
 Accomodates 500 x 500 grease filters.

Additional Options and Features available

Custom Units- Custom units made to order.
Materials- Available in both 304 and 430 stainless steels.
Grease Filters- Supply of grease filters. Available in both baffle & mesh types. Size 500 x 500 standard, alternative sizes may be required for custom units.
Duct Take-offs- Multiple take-offs for canopies above 3m long recommended.
Supply Air- Incorporated into canopy.
Lighting- Factory fitted within canopy. Additional electrical services required.
Fire Suppressant System- Fitted within canopy.

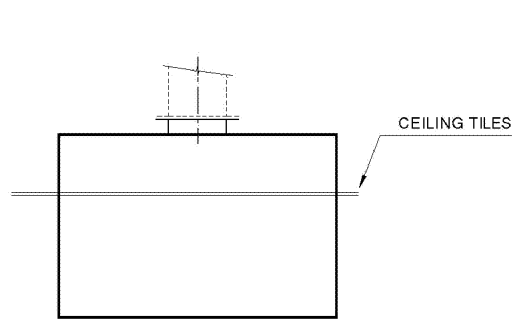


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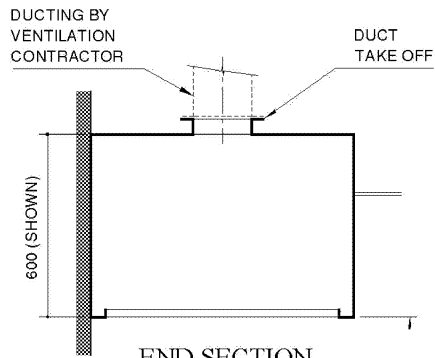
ITEM

ISLAND EXTRACTION CANOPY

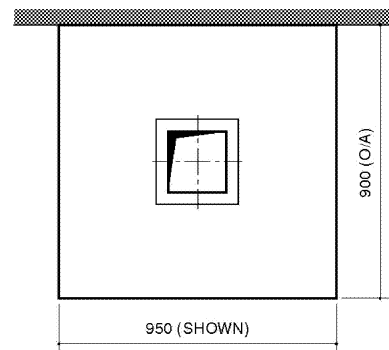
SCALE 1:25 DATE 12-04-'02 DRG. No. 1002



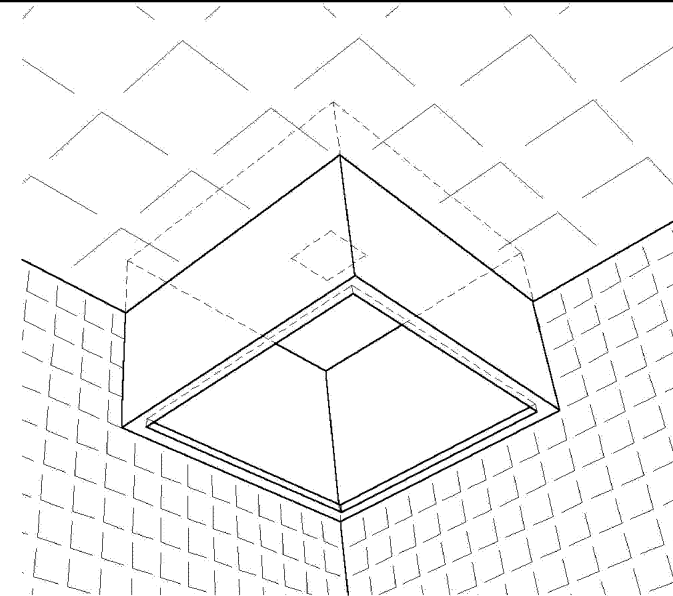
FRONT ELEVATION



END SECTION



PLAN



PERSPECTIVE

DIMENSIONS

Overall Width:-Optional
 Overall Depth:- Optional
 Overall Height:- To suit installation

SPECIFICATIONS

From 18 swg (1.2mm) stainless steel.
 Polished and grained finish, 180/220 grit.

SERVICES

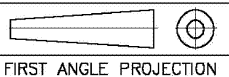
Air extract system including ducting, fan & controls.
 Extract rating must be calculated for each individual installation.

Additional Options and Features available

Custom Units- Custom units made to order.
Materials- Available in both 304 and 430 stainless steels.
Duct Take-offs- Positioned as shown on top of canopy or alternatively, for low ceilings, take-offs may be positioned to rear or ends. Multiple take-offs for canopies above 3m long recommended.

Extract Calculation

Width of Canopy in mm x Depth of Canopy in mm / 926 = Extract Rating in m3/hr.
 eg (950mm x 900mm)/926 = 923m3/hr



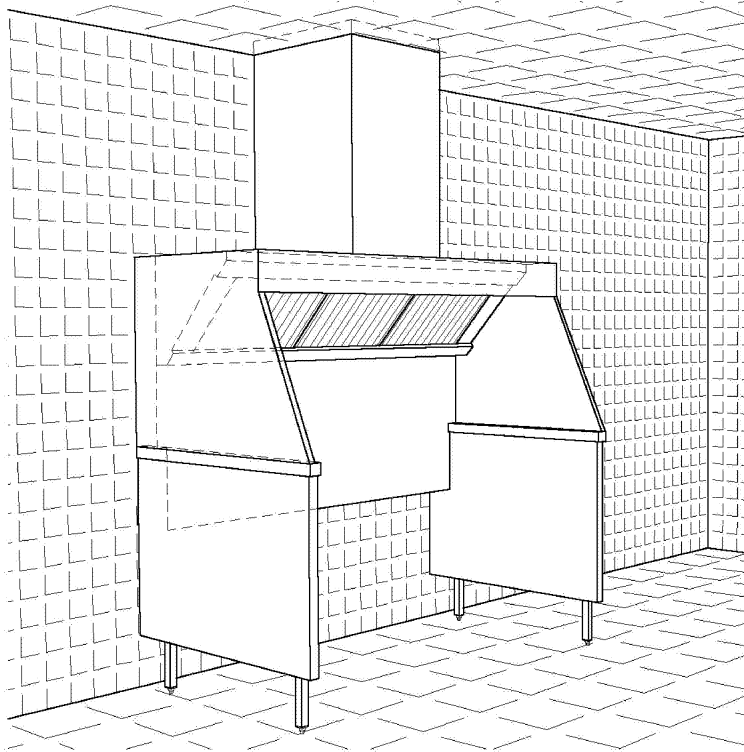
FIRST ANGLE PROJECTION



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ITEM
 CONDENSE CANOPY

SCALE 1:25 DATE 12-04-'02 DRG. No. 1003

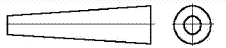


DIMENSIONS

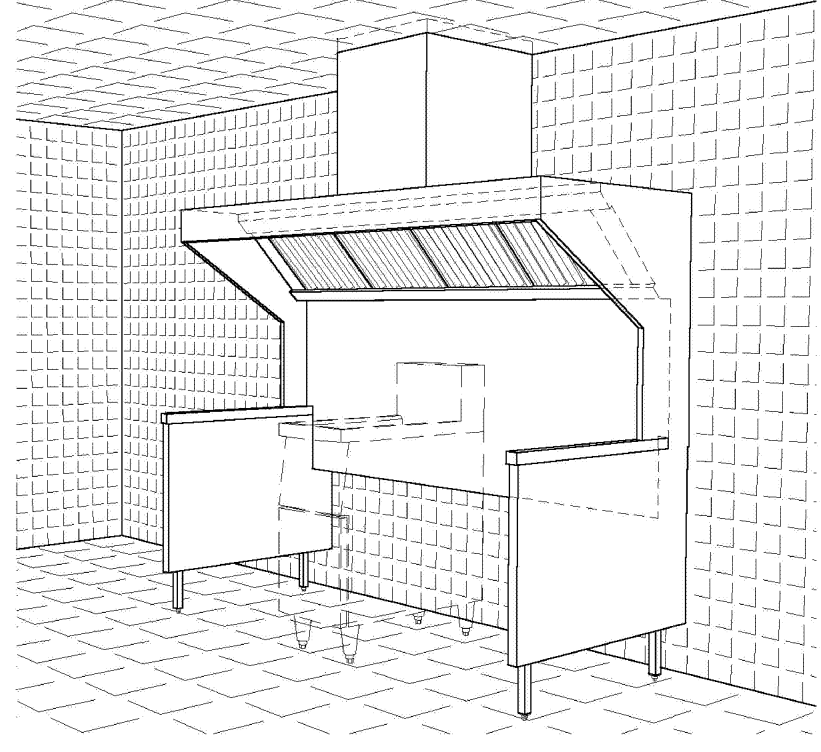
Overall Width:-Optional
 Overall Depth:- Optional
 Overall Height:- To suit installation

SPECIFICATIONS

From 18 swg (1.2mm) stainless steel.
 Polished and grained finish, 180/220 grit.



FIRST ANGLE PROJECTION



SERVICES

Dedicated Air extract system including ducting, fan & controls.
 Extract rating must be calculated for each individual installation.

Additional Options and Features available

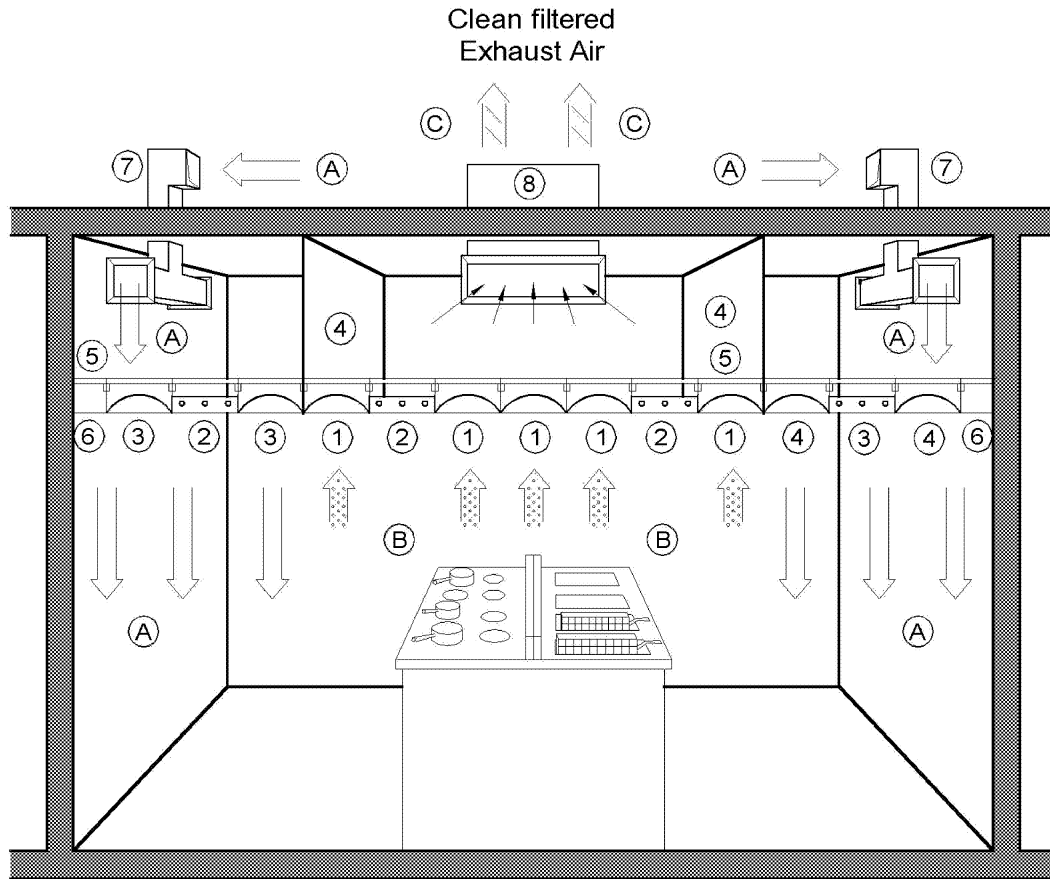
Custom Units- Custom units made to order.
Materials- Available in both 304 and 430 stainless steels.
Fire Suppressant System- Fitted within canopy.



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ITEM FAST FOOD EXTRACTION HOODS

SCALE 1:25 **DATE** 12-04-'02 **DRG. No.** 1004



PERSPECTIVE

KEY

- (A) → Supply Air
- (B) → Grease / Steam Laden Air Rising
- (C) → Clean Filtered Exhaust Air

COMPONENTS

- ① Exhaust Air Modules (Stainless Steel)
- ② Light Modules (IP65 Rated - 500 Lux Ave @ Working Level)
- ③ Supply Air Modules (Stainless Steel)
- ④ Vertical Ceiling Partitions
- ⑤ Unistrut Grid System
- ⑥ Perimeter Infill Sections
- ⑦ Supply Air Ducting
- ⑧ Exhaust Air Ducting



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ITEM
 VENTILATED CEILING
 SYSTEM
 TYPICAL SYSTEM DIAGRAMATIC

SCALE N.T.S. DATE 28-07-'03 DRG. No. 1005

COMPONENTS



EXTRACT AIR MODULE



SUPPLY AIR MODULE



BLANK MODULE



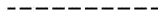
1500mm x 500mm SEALED LIGHT UNIT



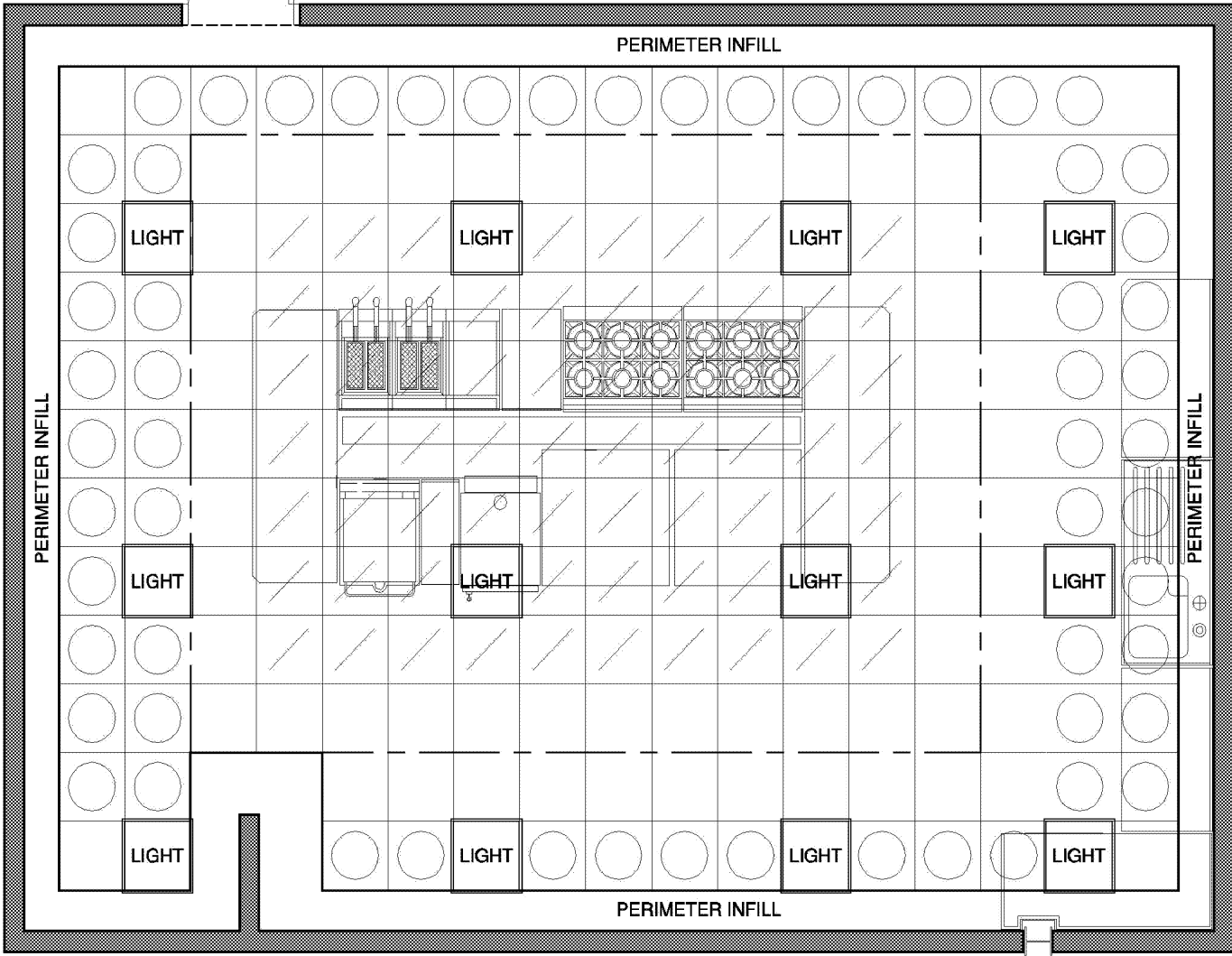
500mm x 500mm SEALED LIGHT UNIT



VERTICAL SEPARATION PARTITIONING IN CEILING VOID



BULKHEAD PARTITION SUPPLIED BY CLIENT



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ITEM
VENTILATED CEILING
SYSTEM
TYPICAL FLOOR PLAN

SCALE N.T.S. DATE 20-07-'03 DRG. No. 1006

General

The Ventilation Contractor shall include for the provision of a purpose designed supply & extract ventilated ceiling, with all the components exposed to the kitchen environment manufactured in stainless steel. To be supplied, delivered & installed in the specified kitchen areas. The modules & the drain collection troughs can be dismantled without the use of tools; therefore these components can be cleaned & then inspected to ensure that all the grease / cooking oils have been removed.

Construction

The Ceiling shall comprise of 500mm square twin shell extract air modules; single shell supply modules, blank modules, drain collection troughs, support heads, perimeter infills & a perimeter trim. All these components will be manufactured from BS304 S15 austenetic steel polished to a brush finish. Option for powder coating the ceiling modules available in either of the colours, White (RAL 9004) or Magnolia (RAL 9001).

The support system will consist of galvanised mild steel primary & secondary channels attached to the stainless steel carrier heads & supported by bright mild steel drop rods from the overhead soffit.

The supporting system shall be co-ordinated with the ductwork, pipework, trunking tray & infilled rooflight within the ceiling void. The ceiling shall be fully independently supported. Fixings shall not be shared or taken from supports for other services.

Separating partitioning of 0.6mm galvanised mild steel sheet or 0.8mm aluminium sheet shall be fixed into the ceiling void to separate exhaust & supply air.

Luminaires

The ceiling shall be provided complete with integrated luminaires, sizes 1500mmx500mm or 500mmx500mm units, designed for an average illuminance of 500 Lux, at a working height of 800mm.

Luminaire manufacture to BS4533.021.1 & the general requirement of BSI IP 65 ingress protection.

Body	: Formed from 1.0mm bright zintec steel
Body Finish	: Pre-treated white high gloss powder spray polyester
Joints	: Fold welded, spot to BS4229
Fuse Protection	: 3-way or 4-way fused terminal block. Plug & socket to external IP65 plug & socket
Control Gear	: To BS2818 1981 240.230V 50 Hz. (Switch Start-Standard)
Lampholders	: Capacitor To BS4017 1979 Dry filled
Internal Wire	: To VDE0100-200 Locate & Lock : 0.8mm sq. 105 degree 'C' single core white

The luminaire will have a fixed but removable gear tray, containing 4 No. angles to add rigidity to the luminaires.

Diffuser	: Polycarbonate 145 degree 'C', long term, 170 degree 'C' short term, 281 GX Makrolon
Frame	: Stainless steel (brushed finish)
Gasket	: Silicon close cell. Black, to internal gear tray / diffuser
Lamps	: 3 off 36 watt T8 colour white 3500o Kelvin halophosphate lamps (light size 1500mmx500mm) 3 off 36 watt compact PL colour white 3500o Kelvin triphosphor lamps (light size 500mmx500mm)

All internal screws to be bright zinc.

Fittings to be packaged & boxed complete with lamps.

Options

- High frequency control gear
- Emergency lighting systems
- Alternative lamp specifications



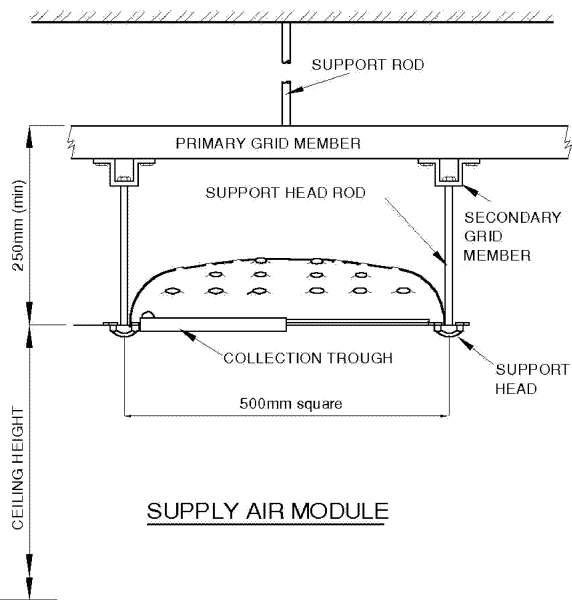
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ITEM

VENTILATED CEILING
SYSTEM
TYPICAL CEILING SPECIFICATION

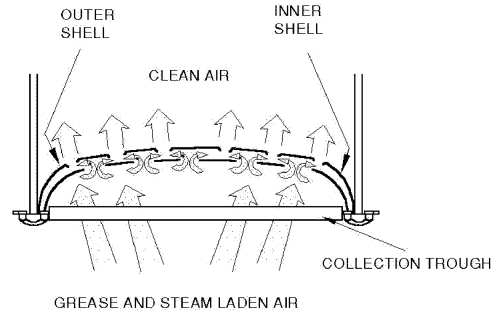
SCALE N.T.S. DATE 20-07-'03 DRG. No. 1007



SUPPLY AIR MODULE

SUPPLY AIR MODULE

The specified amount of supply air is introduced into the kitchen via supply modules. The most economical and simple way of providing make-up air is to duct air direct into an air-tight ceiling supply plenum within the ceiling void.

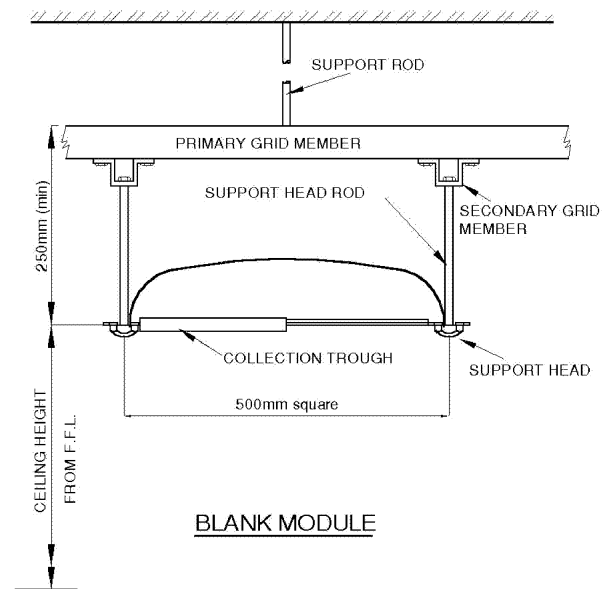


EXHAUST AIR MODULE OPERATION

EXHAUST AIR MODULE

Grease, water, steam and suspended particles, emitted from the cooking process, are separated out of the exhaust air stream by the reaction of the air as it passes through the counter directional holes of the exhaust module.

This unique, high efficiency, filtration system, ensures the exhaust air contaminants are collected on the shells or run into the surrounding collection troughs. As there is no possibility of this discharge blocking the exhaust air route, the system can remain operational at all times.



BLANK MODULE

BLANK MODULE

This module is similar to the supply module but it is not perforated. It is used to complete the Heydal Ceiling after all necessary supply modules, exhaust modules and light modules have been fitted.

Blank modules also provide a means for locating items such as smoke / heat detectors which have to be fitted into the ceiling.



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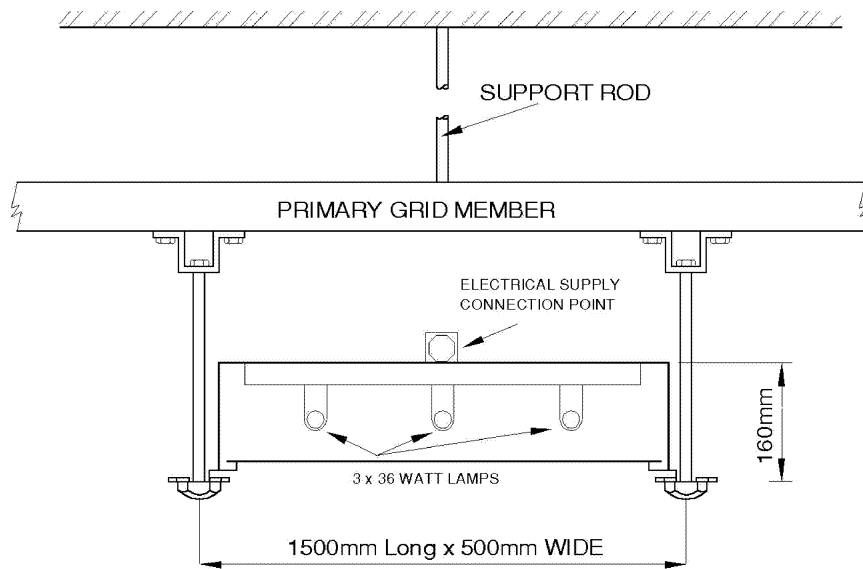
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ITEM

VENTILATED CEILING SYSTEM TYPICAL MODULE DETAILS

SCALE N.T.S. DATE 20-07-'03 DRG. No. 1008

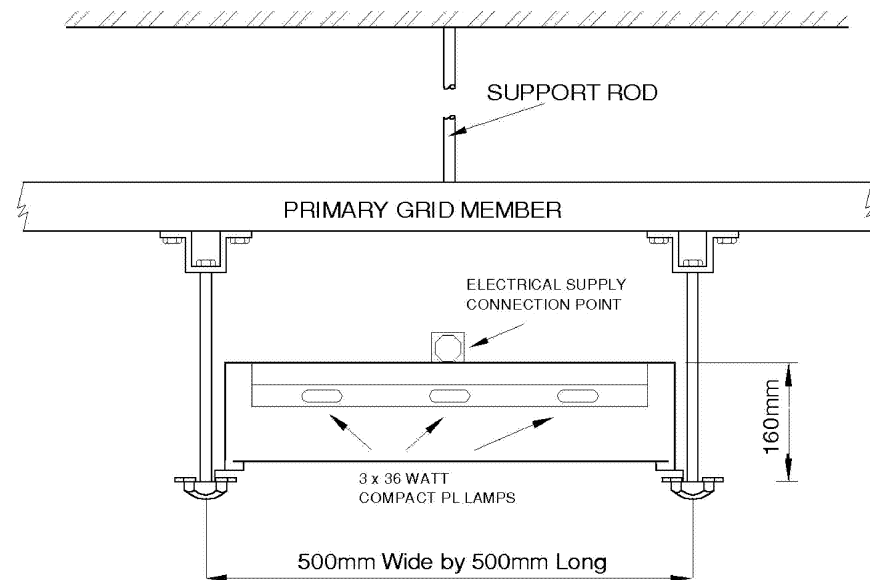
LUMINAIRE SIZE 1500mm x 500mm
SEALED MODEL (IP65 RATED)



OPTIONS AVAILABLE

- 1) Self contained emergency light battery pack (centre tube only)
- 2) High frequency control gear
- 3) Triphosphor lamps

LUMINAIRE SIZE 500mm x 500mm
SEALED MODEL (IP65 RATED)



OPTIONS AVAILABLE

- 1) Self contained battery emergency pack (centre tube only)
- 2) High frequency control gear



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ITEM

VENTILATED CEILING
SYSTEM
TYPICAL LUMINAIRE DETAILS

SCALE N.T.S. DATE 20-07-'03 DRG. No. 1009