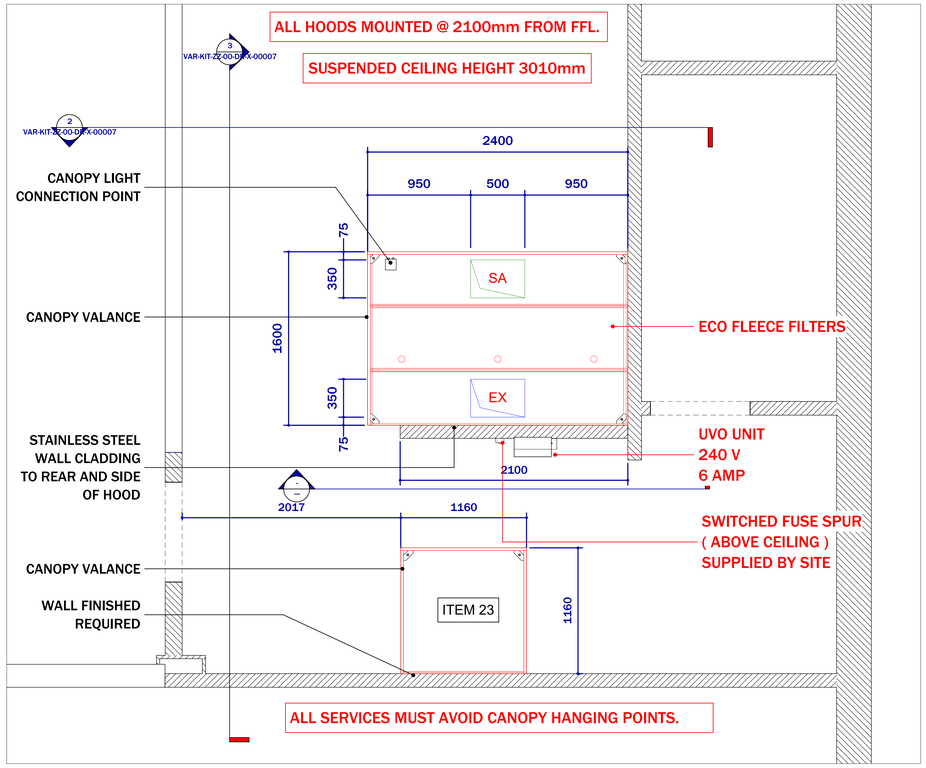
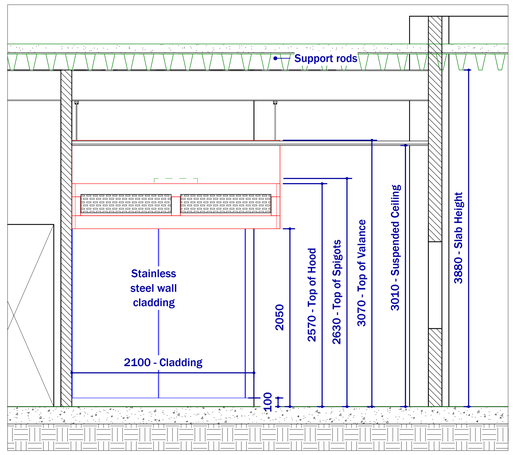
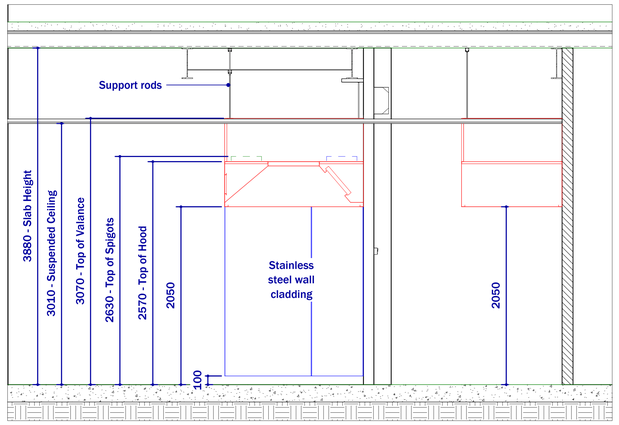


1 KITCHEN HOOD PLAN
1 : 20



2 Section 1
1 : 25



3 Section 2
1 : 25

VENTILATION CANOPY FLOW RATE CALCULATION SHEET

Project:	Varley Street	Job No:	12527
		Rev	
Drawing Ref	Kitchequip Drawing Rev D		
		Date	15/07/2024

Equipment To Ventilated:

Item	Description	Width (mm)	Depth (mm)	Power	Area	TCC	Flow Rate
9	Solid Top Oven Range	900	785	Electric	0.71	0.51	0.3603
12	Benches, Spreaders & Worktop	300	850	N/A	0.26	0.03	0.0077
13	10 Grid Combination Oven	850	775	Electric	0.66	0.32	0.2108
14	6 Grid Combination Oven	850	775	Electric	0.66	0.3	0.1976
					0.00		0.0000
					0.00		0.0000
					0.00		0.0000
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	Theorectical extract volume required						0.7764
	Canopy Factor						1.2
	Extract Flow Rate M3/SEC						0.932
	Supply Flow Rate (85%) M3/SEC						0.792

The above calculation is to allow ventilation of equipment under the canopy only, it does not allow for general ventilation to the kitchen, and is based on DW/172 Extract Flow Rate Calculation Method 1.

ELECTRICAL DETAILS - EXTRACT FAN	
MANUFACTUER	PLASMA CLEAN
MODEL	XTRACT 2100
VOLTAGE	230 V
FREQ	50 Hz
PHASE	1
INPUT POWER	100 W
INPUT CURRENT	3 AMPS
LOCATION	REAR WALL ABOVE CEILING

NOTES

- ALL ELECTRICAL CONNECTIONS BY OTHERS (CANOPY LIGHTS).
- STAINLESS STEEL WALL CLADDING REQUIRES A FLAT DRY SURFACE FOR BONDING TO (FINISHED WALLS).
- CONDENSE HOOD REQUIRES FINSHED WALLS PRIOR TO INSTALLATION.
- ALL FANS AND DUCT WORK BY OTHERS.
- ALL SPIGOTS WILL BE FIXED IN POSITIONS SHOWN READY FOR FINAL CONNECTION TO MAIN DUCTS BY OTHERS.
- HOOD VALVANCE PANELS ARE MANUFACTURED TO SUIT A 3010mm SUSPENDED CEILING.
- VALANCE PANELS WILL BE INSTALLED AT THE SAME TIME AS THE HOOD.
- ALL HOODS ARE INSTALLED AT 2100mm FROM FINISHED FLOOR LEVEL.
- ALL HOODS ARE SUPPORTED FROM STRUCTURAL CEILING.
- A MINIUMUM CLEARANCE OF 1000mm AROUND THE HOOD MUST BE LEFT TO ALLOW ENGINEERS SAFE HIGH LEVEL ACCESS.
- ALL SERVICES MUST AVOID CANOPY HANGING POINTS.
- HIGH LEVEL ACCESS TO BE PROVIDED FOR WORKS OVER 4 MTR.
- NO ALLOWANCE HAS BEEN MADE FOR: CANOPY EMERGENCY LIGHTING, POWERED ACCESS EQUIPMENT, FINAL CONNECTIONS FROM CANOPY SPIGOTS TO MAIN DUCTS, SECONDARY SUPPORT STEEL WORK, KITCHEN AREA LIGTHING, ODOUR CONTROL, ELECTRICAL WORKS.

HOOD DETAILS

Item Number	Manufacturer	Description	Hood Length	Hood Depth	Front Hood Height	Hood Floor Offset	Infill Panel Height	Hood Weight	Hood Notes
ITEM 23	Inox	Condense hood	1160	1160	520	2050	500	30.95 kg	Non Mechcanical
ITEM 8	Inox	Wall type extract and supply air hood	2400	1600	520	2050	500	107.52 kg	Bolt on Front Section, Infill Panels
	Plasma Clean	Ozone injection unit for odour control application							

FILTERS

Item Number	Filter Manufacturer	Type of Filter	No of Filters	Filter Size
ITEM 8	Longar	Baffle Filter	5	400mm x 400mm

LIGHTS

Item Number	Light Manufacturer	Light Model	Number of Lights	Lights Volts	Lights Watts	Lights Amps	Lights Notes
ITEM 8	Scolmore	Nano Inceptor	3	230 V	14 W	3.000 A	Pre-wired to single connection point

CLADDING SCHEDULE

Item Number	Manufacturer	Cladding Length	Cladding Height	Cladding Floor Offset	Number of Cladding Sheets Required	Cladding Notes
Side Wall Cladding	Inox	1600	2000	100	1.6	Edge and flatten edges
Rear Wall Cladding	Inox	2100	2000	100	2.1	Edge and flatten edges

EXTRACT VOLUME

Item Number	Extract Volume	Extract Pressure Drop	No of Extract Spigots	Extract Spigot Width	Extract Spigot Depth	Extract Spigot Velocity
ITEM 8	0.932 m³/s	120.0 Pa	1	500	350	5.326 m/s

SUPPLY AIR VOLUME

Item Number	Supply Air Volume	Supply Air Pressure Drop	No of Supply Air Spigots	Supply Air Spigot Width	Supply Air Spigot Depth	Supply Air Spigot Velocity
ITEM 8	0.792 m³/s	80.0 Pa	1	500	350	4.527 m/s

KEY

IMAGE	DESCRIPTION	CODE
	CANOPY HANGING POINT	HP
	CANOPY LIGHT CONNECTION POINT	CLCP
	LED SPOT LIGHT	SL
	INFILL PANEL	IP
N/A	SUSPENDED CEILING HEIGHT	SCH
	GALVANIZED STEEL EXTRACT DUCT	EX
	GALVANIZED STEEL SUPPLY AIR DUCT	SA
SJ	SITE JOINT	SJ

Rev	Description	Date
P03	Hood mounting height modified, Slab height added, drawing updated from survey on 29-04-25	02-05-25
P04	Eco Fleece Filters Added, UVO Ozone Injection Unit Added	29-08-25

PROJECT NAME
Varley Street

PROJECT ADDRESS
Sawley Rd
Miles Platting
Manchester
M40 8DX

TITLE
KITCHEN HOODS

CLIENT
Kitchequip

PROJECT NUMBER
12527

DRAWNING NUMBER
VAR-KIT-ZZ-00-DR-X-00007

REV	SCALE (@A0)
P04	As indicated

DRAWN BY	CHECKED BY	DATE
mp	gl	29-08-25