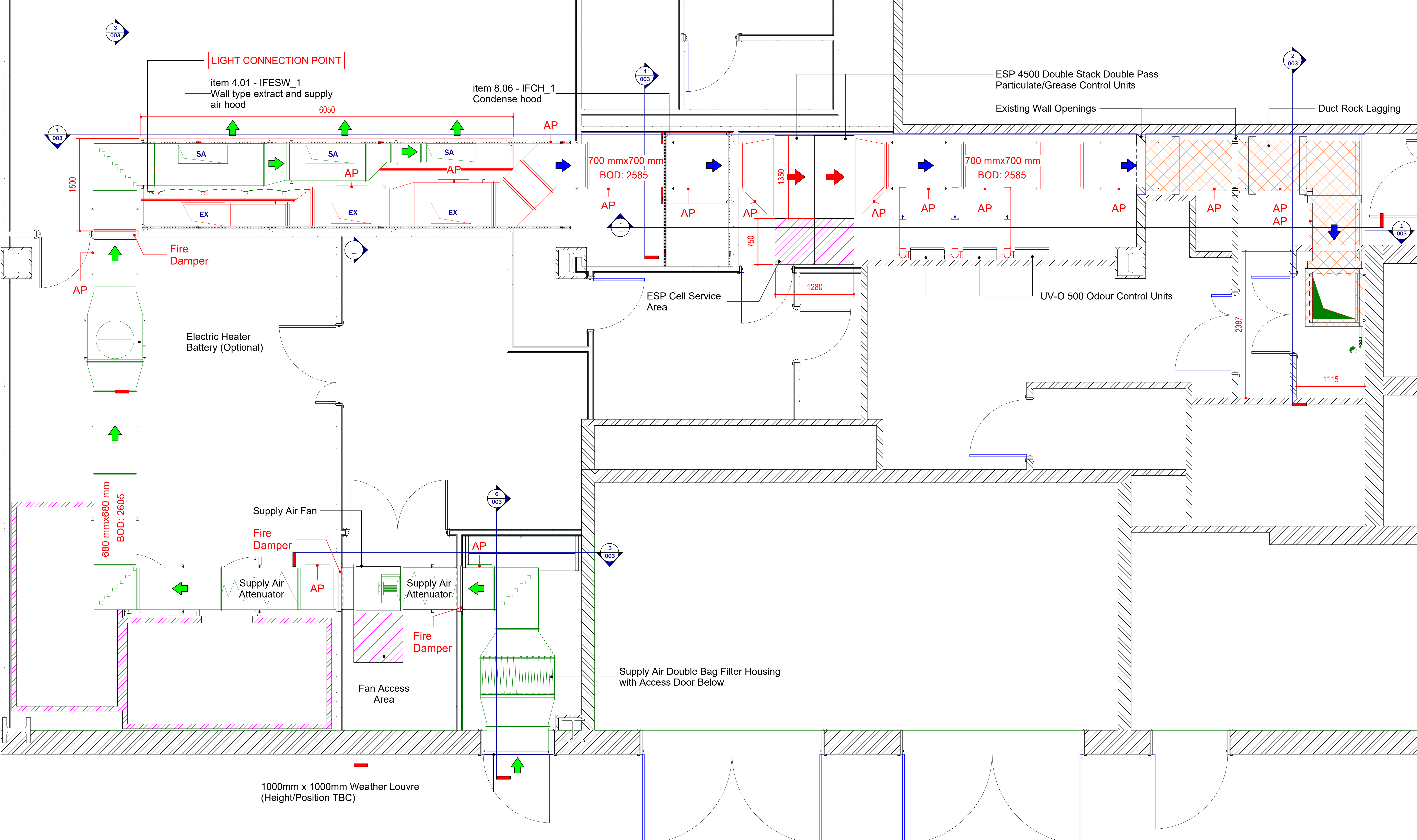




1 KITCHEN VENT - PLAN
1 : 25

DESIGN IS SUBJECT TO FINAL SITE DIMENSIONS

HOOD DETAILS									
Item Number	Manufacturer	Description	Number of Canopy Sections	Hood Length	Hood Depth	Front Hood Height	Hood Floor Offset	Hood Weight	Hood Notes
item 4.01 - IFESW_1	Inox	Wall type extract and supply air hood	3	6050	1500	480	2000	254.10 kg	Condense Hood
item 8.06 - IFCH_1	Inox	Condense hood		1160	1160	480	2000	30.95 kg	
EXTRACT VOLUME									
Item Number	Extract Volume		Extract Pressure Drop	No of Extract Spigots		Extract Spigot Width	Extract Spigot Depth	Extract Spigot Velocity	
item 4.01 - IFESW_1	4.231 m³/s		120.0 Pa	3		350	650	6.199 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 4.01 - IFESW_1	3.596 m³/s		80.0 Pa	3		800	300	4.995 m/s	
CLADDING SCHEDULE									
Item Number	Manufacturer	Cladding Length	Cladding Height	Cladding Floor Offset		Number of Cladding Sheets Required		Cladding Notes	
Wall Clad	Inox	6050	2000	100		6.05		Edge and flatten edges	
LIGHTS									
Item Number	Light Manufacturer	Light Model	Number of Lights	Lights Volts	Lights Watts	Lights Amps	Lights Notes		
item 4.01 - IFESW_1	Scolmore	Nano Inceptor	9	230 V	43 W	3.000 A	Pre-wired to single connection point		

DUCT OULINED IN RED IS FIRE RATED TO THE BELOW SPECIFICATION
FIRE MAC DUCTWORK SYSTEMS - FM60
STABILITY - 60 MINS
INTEGRITY - 60 MINS
NIL - INSULATION
FIRE TESTED TO BS 476 PART 24 1987
ALL COMBUSTABLE MATERIAL MUST BE A MINIMUM OF 500mm CLEAR OF DUCT

DUCT IN ORANGE MESH OUTLINE IS FIRE RATED TO THE BELOW SPECIFICATION
FIREMAC FM FIRE DUCT SYSTEMS FOR FM60
FIRE RATED DUCT SPECIFICATION:
FIRE TESTED TO BS 476 PART 24 1987
FIRE TESTED TO EN 1366 PARTS 1, 8 AND 9
FIRE RATED DUCT TYPE A - FIRE OUTSIDE OF DUCT
FIRE RATED DUCT TYPE B - FIRE INSIDE OF DUCT
60 MINS INTEGRITY
60 MINS STABILITY
INSULATION - 60mm ROCKWOOL DUCTROCK

APPROVAL FROM THE LOCAL APPROVAL AUTHORITY REQUIRED
BEFORE MANUFACTURE AND INSTALLATION

NOTES

- ALL FIRST FIX AND SECOND FIX ELECTRICAL WORKS INCLUDING FIXING CONTROL PANELS AND FAN CONTROLS IN POSITION BY OTHERS.
- PLANT ITEMS ON ROOF REQUIRE A CRANE TO LIFT UP TO ROOF AREA.
- INOX HAS ONLY ALLOWED FOR A FINAL CONTROL CHECK TO ENSURE SYSTEMS RUNS AS PER DESIGN.
- GAS SOLENOID VALVE BY OTHERS.
- STAINLESS STEEL WALL CLADDING REQUIRES A FLAT DRY SURFACE FOR BONDING TO (FINISHED WALLS) DO NOT WHITEROCK WHERE STAINLESS STEEL CLADDING HAS BEEN DETAILED AS IT WILL NOT BOND.
- CONDENSE HOOD REQUIRES FINISHED WALLS PRIOR TO INSTALLATION.
- ALL FANS AND DUCT WORK AS DETAILED BY INOX.
- HOODS ARE MANUFACTURED TO SUIT A MAX SUSPENDED CEILING HEIGHT OF 2450MM. HIGHER CEILINGS WILL REQUIRED VALANCE TO TOP OF HOOD AT EXTRA COST.
- ALL HOODS ARE INSTALLED AT 2000mm FROM FINISHED FLOOR LEVEL.
- ALL HOODS ARE SUPPORTED FROM STRUCTURAL CEILING.
- ALL SERVICES MUST AVOID CANOPY HANGING POINTS.
- A MINIMUM CLEARANCE OF 1000mm AROUND THE HOOD MUST BE LEFT TO ALLOW ENGINEERS SAFE HIGH LEVEL ACCESS.
- HIGH LEVEL ACCESS TO BE PROVIDED FOR WORKS OVER 4 MTR.
- INOX FABRICATIONS LTD DO NOT ALLOW FOR PLANNING PERMISSIONS, BUILDING CONTROL CONSENT, FIRE OFFICER APPROVAL. ALL PARTS OF THE VENT DESIGN MUST BE APPROVED BY THE CORRECT BODY INCLUDING STRUCTURAL ENGINEERS, DESIGNERS AND ARCHITECTS.
- INOX DO NOT CO-ORDINATE ANY OTHER SERVICES.
- NO ALLOWANCE HAS BEEN MADE FOR: FIRE RATED DUCTING, TEMPERED AIR (OPTIONAL), CANOPY EMERGENCY LIGHTING, POWERED ACCESS EQUIPMENT, SECONDARY SUPPORT STEEL WORK, KITCHEN AREA LIGHTING, ODOUR CONTROL, ELECTRICAL WORKS.

VENTILATION CANOPY FLOW RATE CALCULATION SHEET

Project:	Zaap Restaurant, Manchester	Job No:	17072
Drawing Ref	N/A - Rev C - item 4.01 IFESW_1	Rev	
Date	06/02/2025		

Equipment To Ventilated:

Item	Description	Width (mm)	Depth (mm)	Power	Area	TCC	Flow Rate
5.1	Infill Bench	400	965	N/A	0.39	0.03	0.0116
5.2	Chinese Wok Range (turbo)	2440	965	Gas	2.35	1	2.3546
5.3	Infill Bench	400	965	N/A	0.39	0.03	0.0116
5.4	6 Burner Range	900	812	Gas	0.73	0.4	0.2923
5.5	Chargrill	450	812	Gas	0.37	0.95	0.3471
5.6	Twin Tank Fryer	400	800	Electric	0.32	0.45	0.1440
5.7	Twin Tank Fryer	600	800	Electric	0.48	0.45	0.2160
5.8	Infill Bench	300	800	N/A	0.24	0.03	0.0072

Theoretical extract volume required 3.3844

Canopy Factor 1.25

Extract Flow Rate M3/SEC 4.231

Supply Flow Rate (85%) M3/SEC 3.596

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.

item 4.01 - IFESW_1 FLOW RATES

1 : 1



Rev	Description	Date
P01	FOR REVIEW	07/02/25
P02	LENGTH OF ITEM 4.01 IFESW_1 INCREASED, INFILL BENCH ADDED TO COOKLINE AND FRYER WIDTH INCREASED FLOW RATES UPDATED TO SUIT.	04/03/25

PROJECT NAME

Zaap Restaurants, Manchester

PROJECT ADDRESS

Lincoln Square
Lincoln Building
Brazennose St
Manchester

TITLE

M2 5AD
Kitchen Vent Plan & Flow Rates

CLIENT

ACME

PROJECT NUMBER

17072

DRAWING NUMBER

001

REV

P02

SCALE (@A0)

As indicated

DRAWN BY

SM

CHECKED BY

LP

DATE

04/03/25

KEY		
IMAGE	DESCRIPTION	CODE
	CANOPY HANGING POINT	HP
	CANOPY LIGHT CONNECTION POINT	CP
	LED SPOT LIGHT	SL
	INFILL PANEL	IP
N/A	SUSPENDED CEILING HEIGHT	SCH
	GALVANIZED STEEL EXTRACT SPIGOT	EX
	GALVANIZED STEEL SUPPLY AIR SPIGOT	SA
	SITE JOINT	SJ
BOD	BOTTOM OF DUCT	BOD
TOD	TOP OF DUCT	TOD
AP	ACCESS PANEL	AP

SYSTEMS KEY

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