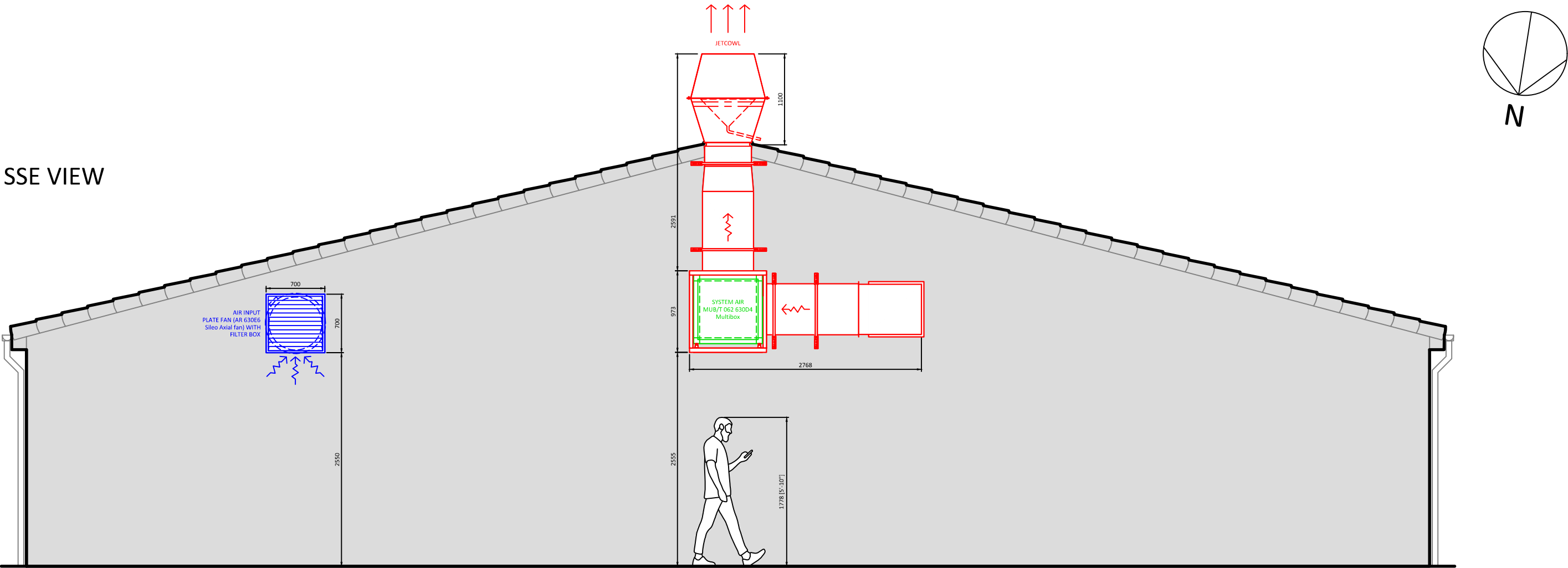




TECHNICAL (FLOW RATES)

Calculations Based on DW172 - 2nd Edition									
Extract									
Equipment (Description)	Item	Qty	Width	Depth	Area (m²)	Total Area (m²)	Co-Efficient	Rate	Unit
GAS - Conveyor Pizza Oven Single Deck	1	1	1943	1524	2.96	2.96	0.30	0.88834	m³/s
MISC - Chip Scuttle	2	1	500	600	0.30	0.30	0.15	0.045	m³/s
ELECTRIC - Deep Fat Fryer	3	1	600	600	0.36	0.36	0.45	0.162	m³/s
GAS - Shawarma Kebab Machine	4	1	600	500	0.30	0.30	0.75	0.225	m³/s
MISC - Bains Marie / Hot Cupboard	5	1	400	600	0.24	0.24	0.20	0.048	m³/s
GAS - Chargrill / Charbroiler	6	1	1200	770	0.92	0.92	0.95	0.8778	m³/s
ELECTRIC - Mild Steel Griddle	7	1	800	700	0.56	0.56	0.25	0.14	m³/s
Total Extract Rate (Theoretical)								2.39	m³/s
Or								2386.14	L/s
Canopy Factor								1.25	
Open Both Ends - Overhead Wall									
Extract Rate (Specific)								2.98	m³/s
Or								10738	m³/h
Velocity (Ideal "6"/Max "9")								9.00	m/s
Area of Duct								0.33	m²
Round Duct Size (Dia)								660	mm
Square Duct Size								600	mm
Supply/Air Input (Forced)									
TOTAL Extract Rate (Specific)								2.98	m³/s
TOTAL Supply Rate (85% of Extract)								2.54	m³/s
Or								2535.27	L/s
Velocity (Ideal "6"/Max "9")								9.00	m/s
Area of Duct								0.28	m²
Round Duct Size (Dia)								600	mm
Square Duct Size								550	mm

TECHNICAL (EQUIPMENT)

Extract Fan - Powerful And Efficient Exhaust Fan For Medium Temperatures Up To 120°C	
Technical Information (Each)	
Manufacturer	System Air
Model	MUB/T 062 630 D4
Stock Number	#399727
Phase	3Ph/400v
Input Power	4.517kW
Current	8.08A
Maximum Flow	4.074m³/s
Weight	110.5kg
Enclosure Class	IP55
Insulation Class	F
Sound Pressure Level at 3m (20m² Sabine)	72 dB
Sound Pressure Level at 3m free field	58 dB
Inlet (250-2k Hz)	87 - 78 dB

Supply Fan - Low Pressure Axial Duct Fan	
Technical Information (Each)	
Manufacturer	System Air
Model	AR 630 E6
Stock Number	#37391
Phase	1Ph
Input Power	0.6kW
Current	2.8A
Maximum Flow	1.93m³/s
Weight	25kg
Enclosure Class	IP54
Insulation Class	F

UV-O - Odour Management	
Technical Information (Each)	
Manufacturer	Purified Air
Model	UV-O 1000
Phase	1
Power	0.64kW
Maximum Flow	2.5m³/s
Weight	50kg

SCALE 1:50



PROJECT	Milandro's Pizza Unit 1 Malandra Castle Road Glossop SK1 36UQ
TITLE	Ventilation Arrangement - EXTERNAL ELEVATION
LOCATION	Ground Floor
DRAWN	CHECKED AF DATE 12/12/23 SCALE 1:50 (A3)
DRAWING No	CKP-23-0082 LAYOUT 02 REV B

CKP
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PROJECTS

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