



Mechanical Legends	
	AIR HANDLING UNIT
	ROOF TOP UNIT
	OUTDOOR CONDENSER
	SUPPLY AIR DIFFUSER
	EXHAUST AIR DIFFUSER
	KITCHEN CHIMNEY
	EXHAUST FAN
	SUPPLY AIR DUCT



ENGINEER'S TEAM

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OWNER:

GENERAL ARRANGEMENT PLAN

ROCK LEOPARD BREWERY
13 WAGTAIL WALK, LONDON, SE2 9FE

SEAL:

Release for construction

HVAC LAYOUT PLAN

Drawn by: Engr. Al Amin

Checked:

Date: NOV, 24.

H. 1

Scale: 1:100

Note:

This HVAC layout plan for Rock Leopard Brewery has been created in compliance with all relevant and updated codes and standards required in London, UK. The design meets the following key regulations:

- Part F - Ventilation: Ensures adequate ventilation with attention to air quality, airflow, and humidity control. This includes adherence to specifications on preventing condensation and maintaining proper indoor air quality for industrial spaces.
- Part L - Conservation of Fuel and Power: Addresses energy efficiency, optimizing the HVAC system to reduce energy consumption while achieving the necessary heating and cooling performance. This part requires updates every few years to meet the evolving UK energy conservation standards.
- Part B - Fire Safety: Ensures all HVAC components are placed and designed to minimize fire hazards and provide safe egress, including provisions for smoke extraction where necessary. This compliance supports occupant safety in the case of an emergency.
- BS EN 378 - Refrigeration Systems and Heat Pumps: This British Standard governs the safe operation of refrigerants, ensuring environmental safety and adherence to UK standards for systems using refrigeration.
- CIBSE Guide B - Heating, Ventilating, Air Conditioning, and Refrigeration: As advised by the Chartered Institution of Building Services Engineers (CIBSE), this guide ensures the HVAC system follows best practices in mechanical and environmental engineering, emphasizing energy efficiency, thermal comfort, and safety.

This layout has been meticulously planned to meet all these standards, ensuring it aligns with current UK codes and promotes operational efficiency, safety, and environmental responsibility.

EXHAUST FAN SCHEDULE

MARK	SERVING	CFM	SP	WATTS	RPM	VOLTAGE	MAKE MODEL	NOTES	FAN TYPE
EF-1	BATHROOM	50	-	50	460	120/60/1	Broan-NuTone 688		IN-LINE
EF-2	KITCHEN	1600	-	78	1291	115/60/1	HOODMART 28D-1600-FF		IN-LINE

NOTES

- COMPLETE W/BACKDRAFT DAMPER.
- PROVIDE THERMOSTATIC CONTROL DEVICES
- INTERLOCK TO OPERATE WHENEVER RTU'S OPERATE.
- MAINTAIN A MINIMUM CLEARANCE OF 10'-0" FROM ALL INTAKE AIR FANS AND ALL ROOF TOP UNITS OUTSIDE AIR INTAKE OPENINGS.

Watermarkly



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H. 2

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