Alpha Consulting Engineers Pte Ltd

Inspection Check List for Car Park Ventilation Installation

Project : _____ Contractor : _____

Inspection Refer No. : _____ Date : _____

Location / Level No. : _____

S/n	Items	Complied		Remarks
		Yes	No	
1	Thickness of sheet metal air duct installed for horizontal duct is min. 1.2mm unless otherwise specified and approval			
2	Headroom from lowest point of air duct to finished floor level is min. 2.2 meters unless specified and approval			
3	Non-return dampers is provided for fans installed in parallel			
4	Low level exhaust air grills is mounted not exceeding 600mm from top of grills to finished floor level			
5	Carpark exhaust fans is capable for operation at 250°C for 2 hours			
6	Supply fans is interlocked to exhaust fans of the same capacity			
7	Remote ON/OFF control of carpark ventilation fans is provided at FCC or main fire alarm panel at 1st storey			
8	Power supply to all carpark fans is sourced from essential supply			
9	Approval type and make of control cables for activation of fans under fire alarm, including interlocking cables is installed			
10	Air flow rate of supply and exhaust air are tested and complied with that at normal condition and fire condition should be at 6 air change per hour and 9 air change per hour respectively			
11	All carpark fans automatic resume operation upon receipt of power supply after power failure by means of latching relays			
12	All carpark fans is automatically activated and remain in operation upon receipt of fire alarm signal regardless of positions of selector switches of fan control and can only be stopped by resetting at the localised control panels			
13	Fans control panels in public areas is provided with key operated protective doors to prevent tampering by unauthorised personnel			
14	Fire rated duct and/or fire rate enclosure of air duct is constructed in accordance with specification and Fire Code			
15	Fan control panels are not installed within the exhaust air stream			
16	Exhaust air is discharged directly to the external and not less than 5 meters from any air intake openings			
17	Wiring and installation of carbon monoxide/dioxide detectors are completed and tested, where specified			

S/n	Items	Complied		Remarks
		Yes	No	
18	Wiring and termination of BMS, interfacing with fire alarm signal and remote control and any other plants/equipment are completed and tested, where specified and applicable			
19	Electrical installation is checked and complied with the check list refer No. ACE/CL/A/103 and ACE/CL/A/110			

Remarks / comments

Conduct by : _____ Company : _____ Date : _____

Signature : _____

Inspect by : _____ Company : _____ Date : _____

Signature : _____

Witness by : _____ Company : _____ Date : _____

Signature : _____

Approve by : _____ Company : _____ Date : _____

Signature : _____

ACEPL