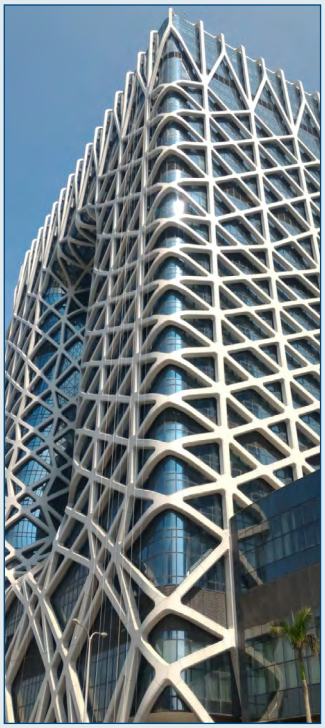
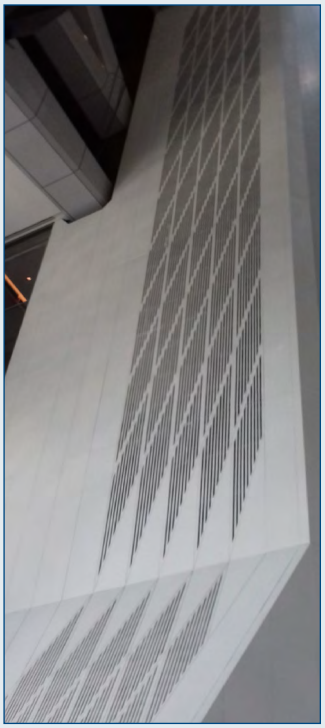
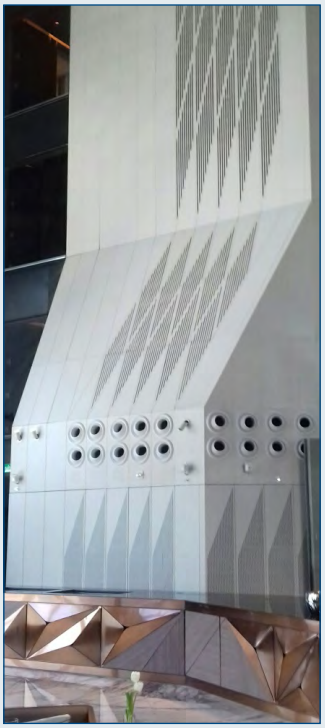
Protec
Fire and Security Group

City of Dreams (Morpheus) Hotel - Macau


Client: City of Dreams (Morpheus) Hotel - Macau

Application: Primary aspirating detection system to 135m high atria

Aspirating Detectors used: 12 x Cirrus Pro Aspirating Fire Detectors

General Note:

The aspirating detector design for this project provided primary 'fire' detection to the main air-conditioning extract ducting system within the whole atria area, covering a total atria height of 135m. The exhaust from each aspirating detector was taken back to a location within the ducting 'down-stream' of the sampling position to equalize any pressure differentials.

Extensive performance testing was carried out in various locations within the atria which proved the design and functionality of the completed system was satisfactory.

Reasons for using Cirrus Pro Aspirating Fire Detectors:

- Cirrus Pro Detectors can provide an earlier warning fire detection solution when compared to than some other detection technologies, within high airflow air-conditioning extract ducting systems.
- Cirrus Pro Detectors can respond to fire conditions in advance of standard point detection.
- Cirrus Pro Detectors do not provide unwanted alarms from airborne dust and other pollutants.
- Cirrus Pro Detectors do not provide unwanted alarms from temperature changes and temperature extremes.
- Cirrus Pro Detectors are a sensitive yet stable fire detection system responding to products of combustion.

Client Detection System Requirements:

Integration of the aspirating fire detection system within the main air-conditioning extract ducting system.
Response to 'Live Fire Performance Test' within specific time restriction, to allow identification of alarm event and appropriate actions as required by the building fire strategy. Integration of the aspirating detection systems into the main building fire alarm system.

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