



Project Description

The Hamad Bin Khalifa Medical City in Doha is spread across three hospitals and provides a full range of care. The total capacity is 1,100 beds, and is the second largest healthcare development in the Middle East, with a QR1bn budget.

Firemac FM Fire Ducts are installed across the development and provide a variety of applications including fire resistant ventilation, pressurisation, basement, and kitchen extract ducts.

System Specification

- Ventilation Ducts / Smoke Outlet Ducts
- Pressurisation Ducts
- Basement Car Park Ducts
- Kitchen Extract Ducts
- 2 hours Uninsulated
- 2 hours Insulated

Performance Summary

Within certain projects, a smoke extract system may be required to assist during and after a fully developed fire, to aid fire fighters' vision while tackling a fire.

Testing

Firemac FM Fire Ducts do not require insulation when handling temperatures up to 350°C. If a duct is not within 500mm of other combustible materials it is not normally required to be insulated even in fully developed fires. Where insulation is required Firemac FM Fire Ducts, with the addition of suitable density rock mineral wool, satisfy the stability, integrity and insulation performance of BS476: Part 24: 1987 (ISO 6944:1985) for 2 hours.

