

Firemac FM Fire Ducts Case Study: Shopping Malls



Clockwise from top left

Tawar Mall
Doha
Qatar

Dubai Mall
Dubai
UAE

Two Rivers Shopping Mall
Nairobi
Kenya

Palm Mall
Muscat
Oman

Tawar Mall: Performance Specifications of Firemac FM Fire Ducts

- Ventilation / Smoke Outlet Ducts
- Pressurisation Ducts
- Basement Car Park Ducts
- Kitchen Extract Ducts

Fire resistance period

- 2 hours Uninsulated
- 2 hours Insulated

Dubai Mall: Performance Specifications of Firemac FM Fire Ducts

- Kitchen Extract Ducts

Fire resistance period

- 2 hours Uninsulated

Two Rivers Mall: Performance Specifications of Firemac FM Fire Ducts

- Kitchen Extract Ducts

Fire resistance period

- 2 hours Uninsulated

Palm Mall: Performance Specifications of Firemac FM Fire Ducts

- Ventilation Ducts

Fire resistance period

- 2 hours Uninsulated

Firemac FM Fire Ducts have been installed in a number of major shopping malls in the Middle East and Africa, and for a wide variety of applications. One of the advantages of Firemac FM Fire Ducts are that the glass fibre cloth - Firemac FM Fabric - used in the duct's construction adds virtually no weight or thickness to the duct. This means hangers usually require no upgrading, and the system can be used in areas where space is at a premium.

Fire Protection in Shopping Malls

Large assembly buildings such as shopping malls pose many challenges in design. These buildings have become increasingly open plan in recent years, presenting challenges to the traditional fire protection strategy based on compartmentation. Additionally most malls are multi functional and provide visitors with a mix of retail and dining outlets, and other leisure activities such as multiplex cinemas, their layouts can be complex, constantly changing and designed to yield the maximum in revenue.

Fire strategy for this type of building takes into account both the different types of businesses in the mall, and the behavior of the public in the event of an emergency.

