

The existing mall is being extended from its Fashion Avenue part. The existing structure is mainly made of PT beam, PT slabs and Hollow Core slabs.

Due to the expansion of the mall and the modifications in arrangement of the parking areas, new ramps had to be created in existing structure.

The impact on existing structure lead to several strengthening operations that Freyssinet designed and executed as follow:

- Strengthening of existing PT beams due to new floating columns: section enlargement by dry shotcrete application.
- Strengthening of existing PT beams due to cutting and new cantilever behavior: installation of stressed supporting system floor to floor by Freyssibar
- Strengthening of PT slab due to new openings: tendons lock-off
- Strengthening of PT slab due to new loads from additional ramp support: installation of carbon fiber fabric and thickening of the slab by dry shotcrete application.

Freyssinet Gulf LLC, PO Box 36211, Dubai, UAE

Tel: +971 4 2094 900 - Fax: +971 4 2094 910

fm@freyssinet.sofr.me www.freyssinet-me.com

Repairs

Dubai Mall – Fashion Avenue Expansion

Dubai - UAE



Client

Emaar

Consultant

WSP

Contractor

DBB

Execution

September 2016