

Deerock Dbayeh XeD Post Tension Slab by CCL :

Deerock Dbayeh is one of the rare buildings in Lebanon to use **XeD extended durability** post-tensioning system pioneered by CCL.

The CCL XeD System is a recent development in post-tensioning tailored specifically towards **durability** which incorporates **anti-corrosive** ducts and special encapsulated accessories.

Our project team wanted a building system with **high standards** of durability to withstand the country's environment, while still providing an **efficient** and **eco-friendly** method of construction.

From a structural perspective, the XeD PT slab alternative achieved a **lighter structure**, reducing vertical elements and foundations size, smart detailing, and the **lowest rate of carbon emission** and embodied energy for the building's construction.

Advantages in Summary:

- 1) Enhanced corrosion protection
- 2) Increased durability, extending service life of structure
- 3) Reduced risk of contaminant penetration and water penetration
- 4) Reduced risk of stand fretting fatigue
- 5) Lower and more accurate friction coefficient along tendon length
- 6) Electrical Isolation of tendons from stray currents

Deerock Dbayeh 304 – XeD Post Tensioning System



Upper View of the Basement 1 XeD PT Slab with anti-corrosive ducts



Enlarged View of the Pocket Forms of the XeD PT System with XF-20 Deviation Cone, XF-10 Anchor Head and PVC Black Tape