



BBC, BATROUN BUSINESS CENTER

SHORING SYSTEMS

Soldier Pile Wall, Anchors, Shotcrete

Execution of a 13.0 m deep excavation using an anchored soldier pile wall with shotcrete facing.

TOTAL CONTRACT AMOUNT: 209,000 USD

- Located in the center of Batroun over a surface area of 2,200m², this is the first project executed in the region composed of five underground basements. The excavation depth and the adapted shoring system were unprecedented in the area till the present time. The business center constituted of 6 upper floors for commercial and office use in a vital need for business development in Batroun. The shoring system consists of executing 600 mm soldier piles spaced at 2.5 m and supported by two layers of ground anchors covered by a 10 cm reinforced shotcrete layer. The soil stratum descends from Fill material, silty Sand, Sandstone to Creamy Marl as we reach the water table corresponding to the sea level.



General View of Site Area

Client:	BBC s.a.l.
Architect:	Accent DG
Engineer:	Haleem Zihenni Office
Structural Eng.:	Rodolphe Mattar

Main Quantities

564 lm of 600 mm soldier piles
1,032 lm of Ground Anchors
107 lm of Capping Beam
1,137 m ² of Shotcrete



Pile concreting operation underway





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Shotcrete smooth finish



View of shoring from excavation level



CMV Machine operating on site