

# Case Study



## Office of Public Works, Cork, Ireland

**Client:** Office of Public Works (Tax Office)

**Consultant:** Arup

**Main Contractor & Anchor Installer:** [Rohcon Ltd](#)

### PROJECT SPECIFICATION

This development for the new tax office, on the site of a former quarry, required further excavation and removal of 50,000m<sup>3</sup> of rock and 20,000m<sup>3</sup> of sand/gravel, leaving a 23m high rear face in need of stabilization.

### SOLUTION

The ground type encountered at the site was particularly suited to mechanical anchors, providing a large anchoring force from a relatively small anchor. The upper section of the slope was profiled to 45° and Terram B20 was laid on top to provide structural cover. A total of 5 rows of anchors were driven perpendicular into the slope, to a depth of 4m, to secure the Terram B20 and stabilize the slope. Finally, Geoweb G30V cellular confinement system was attached to the slope and filled with soil ready for planting.

**Anchor System:** S08EC spheroidal graphite cast iron anchor c/w 4.5m of 12mm Ø stainless steel wire tendon, 200mm x 200mm stainless steel load plate and 12mm stainless steel wedge grip.

**Quantity:** 300

**Anchor Design Life:** 50yrs

**Soil Type:** Sand/gravel

