

Cable Stay – N81 Tallaght Footbridge, Dublin



Landmark cable stayed structure links new shopping centre to local housing over major road.

Main Contractor
Client
Consulting Engineer
Cable Stay subcontractor
Site programme
Sub-contract value

Balfour Beatty
P.Elliot & Co Ltd
Barrett Mahony
Balvac
Jul to Sep 2007
£ 120,000



In March 2007 Balvac won the sub-contract to supply and install the stay cable system to N81 Tallaght Footbridge, Dublin. The 10No stay cables ranged in size from 4 to 19 15.7mm strands, with backspan tie-downs being 65mm diameter high tensile bars.

Stay cables were assembled on site using anchorage components from the MK4 DMK Stay Cable System. The cables comprised individual waxed plastic coated galvanised stay quality strands within an HDPE duct. Stay cables were installed sequentially as deck erection proceeded across the live dual carriageway road.



Specialist plant and technical assistance were provided by our post tensioning licensor, MeKano4.

The need for lane closures during deck erection meant that much of the work was carried at night during this phase of the project. Meticulous planning was required, in conjunction with main contractor Balfour Beatty Ireland, to ensure that pre-booked closures were efficiently utilised and the road returned to normal use on time on each occasion.

Balvac, the UK and Ireland licensee of the MK4 Post Tensioning System, can also offer a full range of internal and external, bonded and unbonded, post tensioning systems for a wide range of structures such as bridges, building slabs, tanks and silos. In addition to new build work Balvac can also undertake tendon monitoring and strengthening works on existing structures.



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