



DAWSON CONSTRUCTION PLANT



Harbour / River Work >



Motorway



Rail



Basement



Sustainable Foundation



Specialist Work



HEAVY DUTY CAPPING

CAZ46 BOX, AZ18 - CLYDE RIVER, GLASGOW, SCOTLAND (2006)

▼ Dawson's Heavy duty capping system was used by "Farrans Construction Ltd.", to create a 1.5M high cope along a CAZ48 Box - AZ18 infill pile wall. The reusable system replaced the need for complex and expensive on site welded fabrications which have to be cut off and made good when the job is finished. The weight of concrete supported per 3m panel was 6 tonnes well within the 30 tonnes max load. Ø85mm holes were burnt through appropriate piles at a predetermined height. The brackets were lowered into position using a sling, cam inserted through hole and engaged. All brackets were then adjusted for height and level. The soffit panels were then positioned and secured to them. The pile

contour was filled in by pushing the panel soffit bars forward. This created a secure platform for the workers to build the cope steelwork and side shuttering on. After the cope wall had set, approximately 24 hours, the side shuttering was removed. The panels were unbolted and the brackets lowered creating a gap between the soffit bars and the underside of the cope. The panels were then removed, cleaned and reused.

Technical Specifications

TEC. SPEC

The multi pile soffit shutters have 148 individual adjustable bars which follow the pile wall contour and do away with the need for profiled plywood in fills. Concrete can then be poured directly on top of these bars.

The system is capable of carrying a maximum vertical load of 10 Tonnes per metre.

Maximum pile depth of 2 metres from pile face can be cast.

Redeb support brackets can be fitted onto flat or round pile faces. The brackets have been design with a minimum width of only 170mm.

To fit brackets only a single Ø85mm hole has to be cut through the pile face.

Redeb support brackets are secured to the pile face by means of a location cam which locates

through the Ø85mm hole. The cam is then turned through 180° for quick installation and removal. Each Redeb support bracket can be adjusted along its length after securing to pile for both height and angle to pile face. +/- 25mm
Built in safety hand rail.

WEIGHT AND DIMENSIONS

SOFFIT PANEL WEIGHT = 2000 Kg

SOFFIT PANEL DIMENSIONS = 3000 x 2250 x 380 mm

BRACKET WEIGHT = 500 Kg

BRACKET DIMENSIONS = 2850 x 1840 x 170 mm



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