

CASE STUDY

Ayr Town Central Shopping Centre Redevelopment



Greenpiling

PROJECT OVERVIEW:

Client:	Henry Boot Developments
Sub-contracted to:	John Mowlem & Co.
Engineer	Beattie Watkinson
Sector:	Commercial
Value:	£367k
Description of Works:	Installation and testing of piles to form part of foundations for Ayr Central



TECHNICAL DETAILS:

Type of Piling System:	Steel Tubular
Soil Conditions:	Mixed Fill/Firm to Stiff Clay/Dolerite, Sandstone and Mudstone Rock
Max Load kN:	Up to 700kN
Length of piles:	Up to 10m
Type of testing:	Dynamic
No of piles installed:	1311 No.
Diameter of piles:	244 and 340mm



Green Piling designed, supplied and installed reclaimed steel tubular piles to form part of the foundations for a new Shopping Centre.

Steel piles were chosen due to pile capacities required, obstructions showing in the site investigation report and the variable lengths of the piles to be installed would mean excessive waste if other piling types were used. Steel tubular piles were cut down once driven to set, with the offcut reused to start the next pile.

Due to the close proximity of the piling works to existing buildings, continuous vibration monitoring was required throughout the project. At no time had the piling operation to be suspended due to excessive vibration.

Working closely with the Engineers, Green Piling proposed an alternative piling layout. Green Piling also undertook the cutting down and testing of the piles.

