

Earthworks

Soil Stabilisation

Site Remediation



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Dorking Surrey RH4 1AH



Date: September 2025

Project: Residential Development

Client: Housing Developer

Process: Capping Replacement Layer to Adoptable Roads

Bulk Fill Treatment of placed material to achieve >5.0% CBR (50Mpa) – 1,000m³

Capping Layer 300mm Stabilisation to achieve >30% CBR (150Mpa) – 5,000m²

Duration: 3 weeks

Designed in accordance with (MCHW)

Series 600 CD22 and CC201 Foundations and Pavement Design

CD 225 Design for new foundation pavements (formerly IAN 73/06) and specifically Fig 3.30 – Restricted Design options – class 2 subbase on bound capping.

CC 201 Pavement Foundation Construction testing requirements for restricted & performance foundation options

Testing (ITP) and Validation by Furlong GS accordance with (MCHW)

Testing and Validation Plan (per CC 201 & CD 225):

Stage	Test	Frequency / Requirement	Target / Acceptance
Pre-works	Plasticity, Moisture, MCV, WS Sulphate, TPS / pH	1 per 500 m ³	Conform to Series 600 Table 6/1 & BRES D1
During works	Density / Air Voids (BS EN 13286-2)	1 per 500 m ² / layer	> 95 % MDD, Air Voids < 5 %
During works	EV ₂ Plate Load (CC 201 Cl. 7.2.6)	1 per 1 000 m ²	> 60 MPa (Formation) / > 155 MPa (Bound Capping)
Post-works	DCP correlation or FWD (CD 225 Annex C)	As directed	Confirmation of uniformity and trafficking resistance
Lab Mix Design	UCS / ITSM (BS EN 13286-47 / 49)	Min 2 sets	Compliance with PF2 performance criteria

LWD (Lightweight Deflectometer)



MCV (Moisture Condition Value)



CBR (California Bearing Ratio)

