

5. Development of the Polyring for Thin Final Lining of Shield Tunnel (2nd)

-Improvement in a Water Pressure-Proof Performance and Development of Teleform Type Timbering-

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Development of the Polyring have been reported by OKUMURA CORPORATION ANNUAL REPORT No.27 for the purpose of cost reduction at Shield Tunneling Construction.

This report was described the characteristic of T type lining material lib on the based of results of numerical analysis and experiment for the improvement of water pressure-proof performance.

At the result of our study, the allowable water pressure-proof performance value of T type lining is recognized to be 0.25 MPa.

Moreover, the rationality of the improved support system was demonstrated at the job site.

Key words : water pressure-proof performance, tensile strength, actual size ring water pressure experiment, numerical analysis, Teleform type timbering