

**GEO Technical Guidance Note No. 17 (TGN 17)  
Prescriptive Soil Nail Design for Concrete and Masonry Retaining Walls**

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1. **SCOPE**

- 1.1 This Technical Guidance Note (TGN) provides guidance on the application of prescriptive soil nail design in upgrading or preventive maintenance works for concrete or masonry retaining walls, including cut slopes with a toe wall.
- 1.2 Any feedback on this TGN should be referred to Chief Geotechnical Engineer/Standards and Testing of the GEO.

2. **TECHNICAL POLICY**

- 2.1 The technical recommendations promulgated in this TGN were agreed by GEO's Geotechnical Control Conference (GCC) on 18<sup>th</sup> March 2004.

3. **RELATED DOCUMENTS**

- 3.1 Lui, B.L.S. & Shiu, Y.K. (2005). *Prescriptive Soil Nail Design for Concrete and Masonry Retaining Wall (GEO Report No. 165)*. Geotechnical Engineering Office, Hong Kong, 78 p.
- 3.2 Wong, H.N., Pang, L.S., Wong, A.C.W., Pun, W.K. & Yu, Y.F. (1999). *Application of Prescriptive Measures to Slopes and Retaining Walls (GEO Report No. 56) (Second Edition)*. Geotechnical Engineering Office, Hong Kong, 73 p.

4. **TECHNICAL RECOMMENDATIONS**

- 4.1 GEO Report No. 165 (Lui & Shiu, 2005) presents guidelines on prescriptive design using soil nails as upgrading or preventive maintenance works for cut slopes with a toe wall, and concrete or masonry retaining walls. The use of the guidelines given in GEO Report No. 165 is recommended.

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