

**GEO Technical Guidance Note No. 31 (TGN 31)  
Design of Soil Nails for Upgrading Loose Fill Slopes**

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1. **SCOPE**

- 1.1 This Technical Guidance Note (TGN) promulgates the report “Design of Soil Nails for Upgrading Loose Fill Slopes”, which is jointly published by the GEO and the Geotechnical Division of the Hong Kong Institution of Engineers (GEO-HKIE, 2011).
- 1.2 Any feedback on this TGN should be directed to Chief Geotechnical Engineer/Standards & Testing of the GEO.

2. **TECHNICAL POLICY**

- 2.1 The technical recommendations referred to in this TGN were agreed by GEO Geotechnical Control Conference in September 2011.

3. **RELATED DOCUMENTS**

- 3.1 GEO (2008). *Guide to Soil Nail Design and Construction (Geoguide 7)*. Geotechnical Engineering Office, Civil Engineering and Development Department, Hong Kong, 97 p.
- 3.2 GEO-HKIE (2011). *Design of Soil Nails for Upgrading Loose Fill Slopes*. Geotechnical Engineering Office and Hong Kong Institution of Engineers (Geotechnical Division), 96 p.
- 3.3 HKIE (2003). *Soil Nails in Loose Fill Slopes. A Preliminary Study (Final Report)*. The Hong Kong Institution of Engineers, Geotechnical Division, 88 p.

4. **BACKGROUND**

- 4.1 A review of the design of soil nails for upgrading loose fill slopes was completed by GEO’s consultants, AECOM. The findings and recommendations are given in the report by GEO-HKIE (2011). This report supplements and updates the relevant parts of HKIE (2003) and Section 5.8 of Geoguide 7 (GEO, 2008).

5. **TECHNICAL RECOMMENDATIONS**

- 5.1 The technical recommendations given in the report “Design of Soil Nails for Upgrading Loose Fill Slopes” (GEO-HKIE, 2011) should be followed.