

HSE Bulletin (Ref.: 18 in 2013)

Polyester Resin Anchor Bolts

Date of issue: 11 September 2013

Date of expiry: 30 March 2014

Background

The Rail Accident Investigation Branch has issued a report ref 13/2013 entitled: [Partial failure of a structure inside Balcombe Tunnel, West Sussex.](#)

This investigation found that the safe long term performance of polyester resin anchor bolts is affected by dampness and shrinkage, and had contributed to the partial failure of the structure.

London Underground makes extensive use of resin anchor bolts, and advice on their use are given in [Manual Of Good Practice – M0058 Civil Engineering – Technical Advice Notes clause 2.8.2](#)

This Safety Bulletin is issued to draw attention to and to extend the directions given in the Manual of Good Practice pending alterations to standards.



Failed polyester resin anchor bolt at Balcombe Tunnel

Instruction

Polyester resins, and polyester resin anchors must not be used in sub surface or underground locations. Nor are they permitted in surface locations which are, or may become damp or wet.

Please communicate this alert to your teams, projects and suppliers as appropriate

Incident reference	N/A
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