

MANUAL HANDLING/SLIPS & TRIPS - REVETMENT FINISHES

Description of Event

A designer has specified a block paving finish for a bridge revetment increasing repetitive strain or risk of slips

Population at Risk

Maintenance Contractor Workers and Inspectors

Hazardous Activity and Residual Risk Description

Maintaining and inspecting a bridge revetment may expose workers to

tripping on uneven ground hazards, slipping and falling on slopes with an assessed residual risk of an almost certain likelihood of minor harm and a may happen likelihood of moderate harm being incurred.



This residual risk may require
a safe working at height solution to be designed and implemented, such as a rope access system.

- A finish that cannot be easily and quickly maintained or one with a short design life increases the number of man-hours to which workers are exposed to the hazards and risks.
- A soft landscaped revetment exposes maintenance and inspection workers to a higher number of man-hours compared with a hard landscaping finish.

Safety Hub Alert Database

 Sub-category 2 Slips trips & falls (same level) for Housekeeping has 13 alerts.

Potential Mitigation Measures



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Design

- Design bridges without sloping revetments.
- Specify revetment with a slip resistant hard finish.
- Evaluate block paving with sprayed concrete solutions.

Construction

- Submit Request for Clarification.
- Raise safety observations.



Photo of a bridge revetment with block paying surface treatment

Maintenance / Operations

- Submit Works Request to provide a hard landscaped finish and raise safety observation.
- Design suitable engineering controls when working on sloping revetments.

Further Guidance and Reading

- <u>BD 97/12</u> The Assessment of scour and other Hydraulic Actions at Highways Structures.
- CD 351 The design and appearance of highway structures
- LD 117 Landscape design.
- DMRB GD 304 Designing health and safety into maintenance
- CIRIA C686 Safe access for maintenance and repair. Guidance for designers.

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