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Permanent counterweighted guardrail systems — Specification

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Summary of pages
This document comprises a front cover, and inside front cover, pages i to iv, pages 1 to 37, an inside back cover and a back cover.

Foreword

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The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. "organization" rather than "organisation").

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1 Scope

This British Standard specifies requirements for the design, performance, testing, inspection, marking and instructions for use of manufactured free-standing permanent guardrails that rely on mass and friction and are intended to protect workers from a fall hazard. These guardrails are not fixed to a structure.

This British Standard does not apply to:

a) temporary counterweighted guardrails (see BS EN 13374);

b) warning chains/posts used for demarcation;

c) netting or infill panels used as barriers;

d) guardrails that penetrate the structure and secure to the substrate;

e) guardrails designed to support material-handling equipment; and

f) guardrails intended for use on surfaces with a slope of more than 5°.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application[1)]. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 1139-1.2, *Metal scaffolding — Part 1: Tubes — Section 1.2: Specification for aluminium tube*

BS EN 74 (all parts), *Couplers, spigot pins and baseplates for use in falsework and scaffolds*

BS EN 39, *Loose steel tubes for tube and coupler scaffolds — Technical delivery conditions*

BS EN 338, *Structural timber — Strength classes'*

BS EN 1990, *Eurocode — Basis of structural design*

NA+A1:2014 to BS EN 1993-1-1:2005+A1: *2014*, *UK National Annex to Eurocode 3: Design of steel structures — Part 1-1: General rules and rules for buildings*

NA to BS EN 1993-1-2, *Eurocode 3: Design of steel structures — Part 1-2: General rules — Structural fire design*

NA to BS EN 1993-1-3, *Eurocode 3: Design of steel structures — Part 1-3: General rules — Supplementary rules for cold-formed members and sheeting*

NA+A1:2015 to BS EN 1993-1-4:2006+A1: *2015*, *Eurocode 3: Design of steel structures — Part 1-4: General rules — Supplementary rules for stainless steels*

NA+A1:2016 to BS EN 1993-1-5: *2006 Eurocode 3: Design of steel structures — Part 1-5: Plated structural elements*

BS EN 1993-1-6, *Eurocode 3: Design of steel structures — Part 1-6: Strength and stability of shell structures*

NA to BS EN 1995-1-1, *Eurocode 5: Design of timber structures — Part 1-1: General — Common rules and rules for buildings*

NA to BS EN 1995-1-2, *Eurocode 5: Design of timber structures — Part 1-2: General — Structural fire design*

NA to BS EN 1999-1-1, *Eurocode 9: Design of aluminium structures — Part 1-1: General structural rules*

[1)] Documents that are referred to solely in an informative manner are listed in the Bibliography.

