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One post equipment — Inspection guidance

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European foreword

This document (CEN/TR 17994:2023) has been prepared by Technical Committee CEN/TC 136 “Sports, playground and other recreational facilities and equipment”, the secretariat of which is held by DIN.

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Introduction

This document is intended to supplement the information on “one post equipment” contained in EN 1176-1:2017+A1:2023 and to share good practice for the implementation of the requirements in that standard.

EN 1176-1:2017+A1:2023, 4.2.14 in particular, creates a potential issue around practical application of the standard when installing one post equipment, particularly on synthetic surfacing. It is possible to interpret the current published clause, in a way that falls beyond the intention and spirit of the standard. Working to the good practice detailed in this document, until such time as the standard is updated, will help to clarify this situation.

It is good practice for the inspection of one post equipment to start with a risk assessment by a competent inspector with a suitable level of experience.

1 Scope

The purpose of this document is to supplement the information on “one post equipment” contained in EN 1176-1 and to share good practice for the implementation of the requirements in that standard.

2 Normative references

EN 1176-1:2017+A1:2023, *Playground equipment and surfacing — Part 1: General safety requirements and test methods*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 1176-1:2017+A1:2023 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp/

— IEC Electropedia: available at https://www.electropedia.org/

3.1
one post equipment
structurally vulnerable equipment where the failure of one cross-section (either at the foundation or elsewhere in the support post) would be catastrophic

Note 1 to entry: This definition includes not only structures with a single support but also those where stability is provided by two legged members or rows of members (see also note to 4.2.14 in EN 1176-1:2017+A1:2023).

[SOURCE: EN 1176-1:2017+A1:2023, 3.37]

3.2
structural integrity
ability of a structure or a structural component to maintain performance throughout the total service life, with respect to structural safety, robustness, serviceability and durability

[SOURCE: ISO 19900:2019, 3.50]

3.3
foundation
any part of the structure that serves to transmit loads to the underlying soil, or to contain it

[SOURCE: ISO 28842:2013, 3.51]