

Scaffolding —

Part 3: Specification for prefabricated mobile access and working towers —

(Implementation of HD 1004)

UDC 69.057.68:621.869.352:614.8

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Committees responsible

The preparation of this British Standard was entrusted by the Technical Committee (B/514) to Subcommittee B/514/24, upon which the following bodies were represented:

- Concrete Society
- Construction Industry Training Board
- Electrical Contractors' Association
- Health and Safety Executive
- Hire International Scaffolding Association
- Prefabricated Aluminium Scaffolding Manufacturers' Association

This British Standard, having been prepared under the direction of the Technical Committee B/514, was published under the authority of the Standards Board and comes into effect on 15 February 1994

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9288	November 1996	Indicated by a sideline in the margin

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National foreword

This Part of BS 1139 has been prepared under the direction of Technical Committee B/514 Access and support equipment. It supersedes BS 1139-3:1983 which is withdrawn.

This Part of BS 1139 is one of a series specifying requirements for the design, construction and testing of equipment for use in scaffolding and other temporary structures. This edition of BS 1139-3 is identical to HD 1004:1992 *Mobile access and working towers made of prefabricated elements — materials, dimensions, design loads and safety requirements*, published by the European Committee for Standardization (CEN).

HD 1004 was produced as a result of agreement in CEN Technical Committee CEN/TC 53 Scaffolding, falsework and mobile access towers in which the UK took an active part.

National annexes referred to in clause 5 exist for Austria, Denmark, Finland, France, Germany, Norway, Sweden and Switzerland, but these are not reproduced here.

Attention is drawn to the following:

- a) Uniform platform loading now includes two classes from BS 1139-5:1990 (HD 1000), i.e. classes 2/3 — 1.5/2.0 kN/m².
- b) The use of ballast as a means of increasing resistance to overturning is now included.
- c) The inclination of stairways and stair ladders at 35°/55° is now specified with stairways defined as for persons carrying tools and stair ladders for persons carrying no tools other than screw drivers, etc.
- d) Apertures in decks are restricted to 0.4 m × 0.6 m minimum and decks have to be secure from uplift by wind.
- e) The gap between guardrail and toeboard is more stringent than the UK Construction Working Places Regulations and an intermediate guardrail is now specified.
- f) As well as testing, clause 8.2 requires the assessment of stresses by calculation in accordance with national annexes.
- g) In assessing resistance to overturning, the wind loads from BS 1139-5:1990 (HD 1000) are used.

BS 1139 is published in separate Parts and Sections as follows:

- *Part 1: Tubes;*
- *Section 1.1: Specification for steel tube;*
- *Section 1.2: Specification for aluminium tube;*
- *Part 2: Couplers;*
- *Section 2.1: Specification for steel couplers, loose spigots and base-plates for use in working scaffolds and falsework made of steel tubes;*
(Identical with EN 74)
- *Section 2.2: Specification for steel and aluminium couplers, fittings and accessories for use in tubular scaffolding;*
- *Part 3: Specification for prefabricated access and working towers;*
- *Part 4: Specification for prefabricated steel, splitheads and trestles;*
- *Part 5: Specification for materials, dimensions, design loads and safety requirements for service and working scaffolding made of prefabricated elements.*
(Identical with HD 1000)

Another document to be considered when using mobile access towers is:

EN 4711¹⁾ *Rules and guidelines for the preparation of users instruction manuals for mobile access towers*, which principally describes the application and safe use of mobile access towers made of prefabricated elements with a height from:

2.5 m to 12 m indoors and

2.5 m to 8 m outdoors

EN 4711 also provides rules and guidelines for the preparation of an instruction manual for mobile access towers.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the HD title page, pages 2 to 15 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

¹⁾ At present in preparation in CEN/TC 53.

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Descriptors: Site equipment, mobile equipment, scaffolding, prefabricated elements, mechanical strength, loads, forces, design, dimensions, specifications, safety, tests

English version

Mobile access and working towers made of prefabricated elements — Materials, dimensions, design loads and safety requirements

Echafaudages roulants de service en éléments préfabriqués — Matériaux, dimensions, charges de calcul et exigences de sécurité

Fahrbare Arbeitsbühnen (Fahrgerüste) aus vorgefertigten Bauteilen, Werkstoffe, Gerüstebauteile, Masse, Lastannahmen und sicherheitstechnische Anforderungen

This Harmonization Document was approved by CEN on 1992-05-22. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for the implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CEN member.

This Harmonization Document exists in three official versions (English, French, German).

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