



BSI Standards Publication

## Metal scaffolding –

Part 6: Prefabricated tower scaffolds outside the scope of BS EN 1004, but utilizing components from such systems – Specification

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### Summary of pages

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## Foreword

### Publishing information

This part of BS 1139 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 December 2014. It was prepared by Subcommittee B/514/24, *Access towers*, under the authority of Technical Committee B/514, *Access and support equipment*. A list of organizations represented on these committee can be obtained on request to their secretary.

### Supersession

This part of BS 1139 supersedes BS 1139-6:2005, which is withdrawn.

### Relationship to other standards

This part of BS 1139 should be read in conjunction with, and is complementary to, BS EN 1004, *Mobile access and working towers made of prefabricated elements — Materials, dimensions, design loads, safety and performance requirements*.

### Information about this document

This is a full revision of the standard and introduces the following principal changes:

- clarification of the scope;
- updated terms and definitions;
- dimensions for certain components;
- new requirements for structural design and positional stability;
- new requirements for design verification;
- new requirements for marking and for the information to be supplied.

### Presentational conventions

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".

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

Requirements in this standard are drafted in accordance with *The BSI guide to standardization – Section 2: Rules for the structure, drafting and presentation of British Standards*, subclause 11.3.1, which states, "Requirements should be expressed using wording such as: 'When tested as described in Annex A, the product shall ...'". This means that only those products that are capable of passing the specified test will be deemed to conform to this standard.

### Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Attention is drawn to the Work at Height Regulations 2005 [1].

**Compliance with a British Standard cannot confer immunity from legal obligations.**

## 1 Scope

This part of BS 1139 specifies requirements for the structural design of prefabricated tower scaffolds utilizing components from mobile access and working towers specified in BS EN 1004 but in configurations that are outside of the scope of that standard.

These configurations include:

- a) prefabricated tower scaffolds outside the height limits of BS EN 1004;
- b) towers with more than one working platform;
- c) large deck tower scaffolds;
- d) linked tower scaffolds;
- e) cantilever tower scaffolds;
- f) stepped tower scaffolds;
- g) tower scaffolds used as a means of access;
- h) towers built on base plates instead of castors.

This British Standard applies to prefabricated tower scaffolds subject to wind loads up to and including  $0.1 \text{ kN/m}^2$ .

*NOTE* Where a prefabricated tower scaffold might be subject to wind in excess of  $0.1 \text{ kN/m}^2$ , and it cannot be dismantled or moved to avoid these winds, suitable wind design criteria can be found in BS EN 1999-1-1-4.

This British Standard does not cover prefabricated tower scaffolds using guys as a method of stabilization.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

BS EN 1004, *Mobile access and working towers made of prefabricated elements – Materials, dimensions, design loads, safety and performance requirements*

BS EN 1298, *Mobile access and working towers – Rules and guidelines for the preparation of an instruction manual*

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

BS EN 12811-2, *Temporary works equipment – Part 2: Information on materials*