



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 January 2022. 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 this committee can be obtained on request to the committee manager.

## Supersession

This part of BS 1139 supersedes [BS 1139-6:2014](#), which is withdrawn.

## Relationship with other publications

BS 1139, Metal scaffolding, was published in six parts:

- Part 1.1: *Tubes - Specification for steel tube* (superseded by BS EN 39:2001);
- Part 1.2: *Tubes - Specification for aluminium tube*;
- Part 2.1: *Couplers - Specification for steel couplers, loose spigots and base-plates for use in working scaffolds and falsework made of steel tubes* (superseded by BS EN 74-1:2005);
- Part 3: *Specification for prefabricated mobile access and working towers* (superseded by BS EN 1004-1:2020);
- Part 4: *Specification for prefabricated steel splitheads and trestles*;
- Part 5: *Specification for materials, dimensions, design loads and safety requirements for service and working scaffolds made of prefabricated elements* (superseded by BS EN 12810-1:2003);
- Part 6: *Specification for prefabricated tower scaffolds outside the scope of BS EN 1004, but utilizing components from such systems*.

This part of BS 1139 should be read in conjunction with, and is complementary to, BS EN 1004-1, *Mobile access and working towers made of prefabricated elements — Materials, dimensions, design loads, safety and performance requirements*.

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## 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”.

*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 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 1004-1 but in configurations that are outside of the scope of that standard.

These configurations include:

- a) high level tower scaffolds outside the maximum height limits of BS EN 1004-1;
- b) tower scaffolds with more than one working platform at one time;
- 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 to another place;
- h) non-mobile towers built on base plates instead of castors; and
- i) tower scaffolds subject to wind loads greater than 0.1 kN/m<sup>2</sup>.

*NOTE* Towers with wind loads up to 0.1 kN/m<sup>2</sup> are specified in BS EN 1004-1. Where a prefabricated tower scaffold might be subject to wind in excess of 0.1 kN/m<sup>2</sup>, and it cannot be dismantled or moved to avoid these winds, suitable wind design criteria can be found in this British Standard.

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

This British Standard does not cover prefabricated towers intended to be lifted.

## 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.

### Standards publications

[BS 1139-1.2](#), *Metal scaffolding – Part 1: Tubes – Section 1.2 Specification for aluminium tube*

[BS 1139-2.2](#), *Metal scaffolding – Part 2: Couplers and fittings – Section 2.2 Couplers and fittings outside the scope of BS EN 74 – Requirements and test methods*

[BS 5975](#), *Code of practice for temporary works procedures and the permissible stress design of falsework*

[BS 8539](#), *Code of practice for the selection and installation of post-installed anchors in concrete and masonry*

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

BS EN 1004-1, *Mobile access and working towers made of prefabricated elements – Materials, dimensions, design loads, safety and performance requirements*

BS EN 1993-1-1, *Eurocode 3: Design of steel structures – Part 1-1: General rules and rules for buildings*

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

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