

# **Adjustable telescopic steel props — Product specifications, design and assessment by calculation and tests**

The European Standard EN 1065:1998 has the status of a  
British Standard

ICS 91.220

# National foreword

This British Standard is the English language version of EN 1065:1998.

The UK participation in its preparation was entrusted by Technical Committee B/514, Access and support equipment, to Subcommittee B/514/28, Props, tubes and couplers, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

This British Standard, together with BS 4074:1999 (in course preparation), will supersede BS 4074:1982, and partially supersede BS 5507-3:1982 which is currently under revision. The revised edition of BS 5507-3 will describe methods of determining the characteristic resistance of adjustable props not conforming to BS EN 1065. BS 4074:1999 covers steel trench struts.

This standard provides the user with a greatly enlarged choice of props. It is recommended, therefore, in the interests of maximizing site utilization, length compatibility with existing props, and as an aid to economic prop manufacture, that users should give preferential consideration to sizes 25, 30, 35, 40 and 50 in either B or C strength grades and to either F2 or F4 corrosion protection methods. Additionally, the use of loose forkheads is recommended.

It is recommended that, if a pin has any reduction in its nominal cross section (such as holes for cables or chains), a means should be provided to ensure that this portion of the pin is always outside the collar nut major diameter.

The principal changes from BS 4074:1982 and points of significance are as follows:

- a) Steel trench struts (previously known as trench struts) are not covered.
- b) Advice on safe working loads is not included. It is envisaged that the next amendment to BS 5975 will contain some advice.
- c) Five different strength classes of props are included. Identification is now given by marking on each prop the number of the standard, the name or trademark of the manufacturer, the year of manufacture, the classification, and the prop's compatibility with EN 74 couplers. The prop may also have the classification identified by profiling the endplates. When required (see annex E) the level of inspection and/or the sign of the independent certification system also have to be marked.
- d) Five methods of corrosion protection are given.
- e) Props are classified according to their fully extended lengths which range from 2,5 m to 5,5 m in 0,5 m intervals. Fully closed lengths of props are no longer specified but all props have at least 1,0 m of adjustment.
- f) Props having a fully closed height of less than 1,5 m are no longer included.
- g) A test to verify that the component parts of adjustable telescopic steel props do not become inadvertently disengaged in use has been added.
- h) There is a minimum linear clearance of 100 mm between the inner and outer tubes intended to form an anti-hand trapping gap when the prop is in the fully closed position.
- i) The minimum permissible end plate bearing area is reduced.
- j) A maximum clearance between threads is now specified.
- k) There is a minimum material thickness for all prop components.
- l) The use of rimming steel is no longer permitted.
- m) Geometric designed props are no longer included.
- n) Verification of the nominal characteristic resistance of an individual prop design may also be by calculation.
- o) Information about independent prototype assessment is included in annex D.

## Cross-references

The British Standards which implement international or European publications referred to in this document may be found in the BSI Standards Catalogue under the section entitled "International Standards Correspondence Index", or by using the "Find" facility of the BSI Standards Electronic Catalogue.

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## Summary of pages

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## Amendments issued since publication

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