MALAYSIAN STANDARD

MS EN 1065:2021

Adjustable telescopic steel props – Product specifications, design and assessment by calculation and test
(First revision)

ICS: 91.220

Descriptors: building sites, scaffolds, props, telescopic, adjustment, steels, stays, design, construction equipment, corrosion protection, threads, classification systems, designations, welding, dimensions, length, verification, strength of materials, rigidity, mechanical strength, verification, computation tests, marking

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Committee representation

The National Standards Committee on Building, Construction and Civil Engineering (NSC D) under whose authority this Malaysian Standard was developed, comprises representatives from the following organisations:

Association of Consulting Engineers Malaysia
Construction Industry Development Board Malaysia
Department of Irrigation and Drainage Malaysia
Department of Standards Malaysia (Secretariat)
Federation of Malaysian Manufacturers
Jabatan Bomba dan Penyelamat Malaysia
Jabatan Kerajaan Tempatan
Jabatan Kerja Raya
Malaysian Iron and Steel Industry Federation
Malaysian Timber Industry Board
Master Builders Association Malaysia
Pertubuhan Akitek Malaysia
Pertubuhan Perancang Malaysia
Projek Lebuhraya Usahasama Berhad
Real Estate and Housing Developers' Association Malaysia
Suruhanjaya Perkhidmatan Air Negara
The Cement and Concrete Association of Malaysia
The Institution of Engineers, Malaysia
Universiti Putra Malaysia
Universiti Sains Malaysia
Universiti Teknologi Malaysia

The Technical Committee on Steel Products (TC/D/4) which supervised the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

Building Materials Distributors Association of Malaysia
Construction Industry Development Board Malaysia
Department of Occupational Safety and Health Malaysia
Department of Standards Malaysia (Secretariat)
Malaysian Iron and Steel Industry Federation
Malaysia Steel Association
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Teknologi Malaysia
Universiti Teknologi MARA

Co-opted members:

Construction Research Institute of Malaysia
Master Builders Association Malaysia

The Working Group on Metal Equipment for Falsework and Propping (WG/D/4-5) which recommended the adoption of the EN Standard as Malaysian Standard consists of representatives from the following organisations:

Building Materials Distributors Association of Malaysia
BWYS Steel Industries Sdn Bhd
Construction Industry Development Board Malaysia
Construction Research Institute of Malaysia
Department of Occupational Safety and Health Malaysia
Department of Standards Malaysia (Secretariat)
Doka Formwork Malaysia Sdn Bhd
Malaysian Iron and Steel Industry Federation
Malaysia Steel Association
Master Builders Association Malaysia

Committee representation (*continued*)

MFE Formwork Technology Sdn Bhd
PERI Formwork Malaysia Sdn Bhd
PLYTEC Formwork System Industries Sdn Bhd
SIRIM QAS International Sdn Bhd
The Institution of Engineers, Malaysia
Universiti Malaya
Universiti Teknologi Malaysia
Universiti Teknologi MARA

National foreword

The adoption of the EN Standard as a Malaysian Standard was recommended by the Working Group on Metal Equipment for Falsework and Propping under the authority of the National Standards Committee on Building, Construction and Civil Engineering.

This Malaysian Standard is identical with EN 1065:1998, *Adjustable telescopic steel props - Product specifications, design and assessment by calculation and tests*, published by the European Committee for Standardization (CEN) with the exceptions as listed below:

a) in the source text, "this European Standard" should read "this Malaysian Standard";

b) the comma which is used as a decimal sign (if any), to read as a point;

c)

Clause / Subclause	Modifications
2. Normative references	Amendment on list of normative references are as follows: i. EN 74-1 Couplers, spigot pins and baseplates for use in falsework and scaffolds – Part 1: Couplers for tubes – requirements and test procedures. ii. EN 10025-2 Hot rolled products of non-alloy structural steels -Technical delivery conditions for non-alloy structural steels. iii. ISO 6892-1 Metallic materials – Tensile testing – Part 1: Method of test room temperature (replaced EN 10002-1, Tensile testing of metallic materials - Method of test at ambient temperature). iv. ISO 683-1 Heat-treatable steels, alloy steels and free-cutting steels — Part 1: Non-alloy steels for quenching and tempering (replaced EN 10083-1, Quenched and tempered steels - Part 1: Technical delivery conditions for special steels).

National foreword (*continued*)

Clause / Subclause	Modifications
2. Normative references	v. ISO 683-2 Heat-treatable steels, alloy steels and free-cutting steels — Part 2: Alloy steels for quenching (replaced EN 10083-2, Quenched and tempered steels - Part 2: Technical delivery conditions for unalloyed quality steels). vi. ISO 683 -3 Heat-treatable steels, alloy steels and free-cutting steels — Part 3: Case-hardening steels (replaced EN 10083-3, Quenched and tempered steels - Part 3: Technical delivery conditions for boron steels). vii. ISO 10474 Steel and Steel Products — Inspection Documents (replaced EN 10204:1991, Metallic products - Types of inspection documents). viii. ISO 6508-1:2016 Metallic materials — Rockwell hardness test — Part 1: Test method.
10.2.2 Material properties	Symbol for the testing parameters have been changed, as follows:

Testing parameter	Previous symbol	New symbol
Yield strength	fy	R_{eH}
Tensile strength	fu	R_m
Elongation	δu	A

National foreword (*continued*)

Clause / Subclause	Modifications
12. Marking	Amendment of the marking classification in Clause 12 has been done. - classification (refer to **Table 2**)
Annex E – Ongoing production inspection	Table E.1- Inspection of materials and bought in components, is updated as follows: Notes: For tube's parameter, increased yield strength per batch is changed from 2.3 to 2.2 of EN 10204.

e) reference to International Standards should be replaced by corresponding Malaysian Standards as follows:

Referenced European Standards	Corresponding Malaysian Standards
EN 74, *Couplers, loose spigots and base-plates for use in working scaffolds and falsework made of steel tubes- Requirements and test procedures*	MS 1462-2-3, *Metal scaffolding - Part 2: Tubular (tube and coupler) scaffolds - Section 3: Specification for steel and aluminium couplers, fitting and accessories*
EN 39, *Steel tubes for tube and coupler scaffold structures - Technical delivery conditions*	MS 1462-2-1, Metal scaffolding - Part 2: Tubular (tube and coupler) scaffolds - Section 1: Specification for steel tubes
EN 10025, *Hot rolled products of non-alloy structural steels - Technical delivery conditions*	MS EN 10025-1, *Hot rolled products of structural steels - Part 1: General technical delivery conditions*
EN ISO 9001, *Quality systems - Model for quality assurance in design, development, production, installation and servicing*	MS ISO 9001, *Quality management systems - Requirements*
EN ISO 9002, *Quality systems - Model for quality assurance in production, installation and servicing*	MS ISO 9002, *Quality systems - Model for quality assurance in production, installation and servicing*

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National Foreword (*continued*)

Referenced European Standards	Corresponding Malaysian Standards
EN 10210 – 1*, Hot finished structural hollow sections of non-alloy and fine grain structural steels - Part 1: Technical delivery requirements*	MS EN 10210-1, *Hot finished structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery conditions*

This Malaysian Standard cancels and replaces MS EN 1065:2011, *Adjustable telescopic steel props – Product specifications, design and assessment by calculation and tests.*

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