

Hot rolled products of non-alloy structural steels — Technical delivery conditions

The European Standard EN 10025 : 1990, with the incorporation of its amendment A1 : 1993 has the status of a British Standard

Produits laminés à chaud en aciers de
construction non alliés — Conditions
techniques de livraison

Warmgewalzte Erzeugnisse aus unlegierten
Baustählen — Technische Lieferbedingungen

UDC 669.14.018.291-122.4-4 : 620.1



Cooperating organizations

The European Committee for Standardization (CEN), under whose supervision this European Standard was prepared, comprises the national standards organizations of the following countries:

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Denmark	Dansk Standardiseringsraad
Finland	Suomen Standardisoimisliitto, r.y.
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Germany	Deutsches Institut für Normung e.V.
Greece	Hellenic Organization for Standardization
Iceland	Technological Institute of Iceland
Ireland	National Standards Authority of Ireland
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Spain	Asociación Española de Normalización y Certificación
Sweden	Standardiseringskommissionen i Sverige
Switzerland	Association suisse de normalisation
United Kingdom	British Standards Institution

This British Standard, having been prepared under the direction of the Iron and Steel Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 November 1993

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The following BSI references relate to the work on this standard:
Committee reference ISM/12
Draft for comment 92/39163 DC

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Amendments issued since publication

Amd. No.	Date	Text affected

Amendment No. 1
published and effective from 15 June 1995
to BS EN 10025 : 1993

Hot rolled products of
non-alloy structural steels —
Technical delivery conditions

Corrections

National foreword

In paragraph 4, line 2, delete 'national annex NB' and substitute 'national annex NA'.

AMD 8616/June 1995

Table 5. Mechanical properties for flat and long products

In column 14, lines 3 and 4, delete '340 – 370' and substitute '340 – 470'.

In column 14, line 6, delete '340 – 510' and substitute '340 – 470'.

On the second page of the table, in the heading to column 1, delete 'nad' and substitute 'and'.

In the heading to columns 11 to 15, delete '80 mm' and substitute ' $5.65\sqrt{S_0}$ '.

In the range in the heading to column 14, delete '<' before the value 100 and substitute '>'.

AMD 8616/June 1995

Subclause 7.4.2.2

In line 3, insert '≥' before the value '6'.

AMD 8616/June 1995

Table 9. Cold roll forming of flat products

In columns 1 and 2, delete row 13 for designation 'S355J2G3C'.

AMD 8116/June 1995

Subclause 8.6.3.3 Impact test pieces

In indent b), line 3, insert '≥' before the value '5' mm.

AMD 8116/June 1995

Table C.1 List of corresponding former designations

Delete table C.1 and substitute the new table C.1 attached.

AMD 8616/June 1995

Table NA.1 Chemical composition (ladle analysis) for flat and long products

Delete column 5 and substitute the following.

P % max.
0.050
0.050
0.050

AMD 8616/June 1995



*
S
*

Table C.1 List of corresponding former designations

Designation		Equivalent former designations in										
According EN 10027-1 and ECISS IC 10	According EN 10027-2	According EN 10025: 1990	Germany	France	United Kingdom	Spain	Italy	Belgium	Sweden	Portugal	Austria	Norway
S185	1.0035	Fe 310-0	St 33	A33		A310-0	Fe 320	A 320	13 00-00	Fe 310-0	St 320	
S235JR	1.0037	Fe 360 B	St 37-2	E 24-2			Fe 360 B	AE 235-B	13 11-00	Fe 360-B		NS 12 120
S235JRG1	1.0036	Fe 360 BFU	USt 37-2			AE 235-B-FU					USt 360 B	NS 12 122
S235JRG2	1.0038	Fe 360 BFN	RSt 37-2		40B	AE 235 B-FN			13 12-00		Rst 360 B	NS 12 123
S235J0	1.0114	Fe 360 C	St 37-3 U	E 24-3	40 C	AE 235 C	Fe 360 C	AE 235-C		Fe 360-C	St 360 C	NS 12 124
S235J2G3	1.0116	Fe 360 D1	St 37-3 N	E 24-4	40 D	AE 235 D	Fe 360 D	AE 235-D		Fe 360 D	St 360 CE	
S235J2G4	1.0117	Fe 360 D2									St 360 D	NS 12 124
S275JR	1.0044	Fe 430 B	St 44-2	E 28-2	43 B	AE 275 B	Fe 430 B	AE 255-B	14 12-00	Fe 430 B	St 430 B	NS 12 142
S275J0	1.0143	Fe 430 C	St 44-3 U	E 28-3	43 C	AE 275 C	Fe 430 C	AE 255-C		Fe 430-C	St 430 C	NS 12 143
S275J2G3	1.0144	Fe 430 D1	St 44-3 N	E 28-4	43 D	AE 275 D	Fe 430 D	AE 255-D	14 14-00	Fe 430-D	St 430 CE	
S275J2G4	1.0145	Fe 430 D2							14 14-01		St 430 D	NS 12 143
S355JR	1.0045	Fe 510 B		E 36-2	50 B	AE 355 B	Fe 510 B	AE 355-B		Fe 510-B		
S355J0	1.0553	Fe 510 C	St 52-3 U	E 36-3	50 C	AE 355 C	Fe 510 C	AE 355-C		Fe 510-C	St 510 C	NS 12 153
S355J2G3	1.0570	Fe 510 D1	St 52-3 N		50 D	AE 355 D	Fe 510 D	AE 355-D		Fe 510-D	St 510 D	NS 12 153
S355J2G4	1.0577	Fe 510 D2										
S355K2G3	1.0595	Fe 510 DD1		E 36-4	50 DD			AE 355-DD		Fe 510-DD		
S355K2G4	1.0596	Fe 510 DD2			50 DD							
F295	1.0050	Fe 490-2	St 50-2	A 50-2		A 490	Fe 480	A 490-2	15 50-00 15 50-01	Fe 490-2	St 490	
F335	1.0060	Fe 590-2	St 60-2	A 60-2		A 590	Fe 580	A 590-2	16 50 00 16 50-01	Fe 590-2	St 590	
F360	1.0070	Fe 690-2	St 70-2	A 70-2		A 690	Fe 650	A 690-2	16 55 00 16 55 01	Fe 690-2	St 690	

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National foreword

This British Standard has been prepared under the direction of the Iron and Steel Standards Policy Committee and is the English language version of EN 10025 : 1993 *Hot rolled products of non-alloy structural steels — Technical delivery conditions*, published by the European Committee for Standardization (CEN). It supersedes BS EN 10025 : 1990 which is withdrawn.

BS EN 10025 : 1990 superseded part of BS 4360 : 1986 which was withdrawn. The parts of BS 4360 : 1986 not affected by EN 10025 : 1990 were published as a new edition, BS 4360 : 1990.

The following European and British Standards for structural steels have been, or are shortly to be, published. Collectively they will supersede BS 4360 : 1990 which will be withdrawn.

BS EN 10113	<i>Hot rolled products in weldable fine grain structural steels</i> Part 1: <i>General delivery conditions</i> Part 2: <i>Delivery conditions for normalized/normalized rolled steels</i> Part 3: <i>Delivery conditions for thermomechanical rolled steels</i>
BS EN 10155	<i>Structural steels with improved atmospheric corrosion resistance — Technical delivery conditions</i>
BS EN 10210	<i>Hot finished structural hollow sections of non-alloy and fine grain structural steels — Technical delivery conditions</i> Part 1: <i>Hot rolled quenched and tempered weldable structural steel plates</i>
BS 7668	<i>Weather resistant weldable structural hollow sections</i>

For the UK edition only of this standard grades S235, S275 and S355 are specified in national annex NB. These are the former grades 40A, 43A and 50A in BS 4360 : 1986 which have been redesignated for consistency with the other grades in this standard.

Until referenced Euronorms (EU) or Draft European Standards (prEN) are transformed into mandatory European Standards (EN), table NB1 in national annex NB lists the applicable standards which the responsible BSI Technical Committee has agreed should be used when products are ordered and supplied in accordance with this standard. It should be noted that as each prEN and EU is transformed into an EN, the requirements of the EN become mandatory.

It should be noted that in the case of plate tolerances in accordance with EN 10029, class A thickness tolerances shall apply, unless otherwise agreed, when plates are supplied in accordance with this standard.

EUROPEAN STANDARD

EN 10025

NORME EUROPÉENNE

March 1990

+ A1

EUROPÄISCHE NORM

August 1993

UDC 669.14.018.291-122.4-4:620-1

Descriptors: Iron- and steel products, structural steels, unalloyed steels, hot rolled products, quality classes, designations, specifications, chemical composition, mechanical properties, mechanical tests, inspection, marking

English version

Hot rolled products of non-alloy structural steels — Technical delivery conditions

(includes amendment A1:1993)

Produits laminés à chaud en aciers de
construction non alliés — Conditions
techniques de livraison
(inclut l'amendement A1:1993)

Warmgewalzte Erzeugnisse aus unlegierten
Baustählen — Technische Lieferbedingungen
(enthält Änderung A1:1993)

This European Standard including Amendment A1 was approved by CEN on 1993-08-10. CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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Foreword

This European Standard has been drawn up by ECISS/TC 10, Structural steel — qualities, whose Secretariat is held by NNI.

This document established by the Secretariat of ECISS/TC 10 incorporates the text of EN 10025 : 1990 with the text of the amendment A1 : 1993. This amendment was prepared on request of CEN/TC 121, Welding, and CEN/TC 135, Execution of steel structures. It also incorporates the new designations according to EN 10027 Parts 1 and 2, IC 10 and the corrigendum dated July 1991.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 1994, and conflicting national standards shall be withdrawn at the latest by February 1994.

According to the Common CEN/CENELEC Rules, the following countries are bound to implement this European Standard: Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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