

ILNAS

Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
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ILNAS-EN 10025-5:2019

Hot rolled products of structural steels - Part 5: Technical delivery conditions for structural steels with improved atmospheric corrosion resistance

Warmgewalzte Erzeugnisse aus
Baustählen - Teil 5: Technische
Lieferbedingungen für wetterfeste
Baustähle

Produits laminés à chaud en aciers de
construction - Partie 5 : Conditions
techniques de livraison pour les aciers de
construction à résistance améliorée à la

08/2019



National Foreword

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English Version

Hot rolled products of structural steels - Part 5: Technical delivery conditions for structural steels with improved atmospheric corrosion resistance

Produits laminés à chaud en aciers de construction -
Partie 5 : Conditions techniques de livraison pour les
aciers de construction à résistance améliorée à la
corrosion atmosphérique

Warmgewalzte Erzeugnisse aus Baustählen - Teil 5:
Technische Lieferbedingungen für wetterfeste
Baustähle

This European Standard was approved by CEN on 16 June 2019.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Contents	Page
European foreword.....	4
1 Scope	6
2 Normative references	7
3 Terms and definitions	9
4 Classification and designation	10
4.1 Classification	10
4.1.1 Main quality classes	10
4.1.2 Grades and qualities	10
4.2 Designation	10
5 Information to be supplied by the purchaser	11
5.1 Mandatory information	11
5.2 Options	11
6 Manufacturing process	11
6.1 Steel making process	11
6.2 Deoxidation	11
6.3 Delivery conditions	11
7 Requirements	12
7.1 General	12
7.2 Chemical composition	12
7.3 Mechanical properties	12
7.3.1 General	12
7.3.2 Impact properties	13
7.3.3 Improved deformation properties perpendicular to the surface	13
7.4 Technological properties	13
7.4.1 Weldability	13
7.4.2 Formability and flame straightening	13
7.5 Surface properties	14
7.5.1 Strip	14
7.5.2 Plates and wide flats	14
7.5.3 Sections	14
7.5.4 Bars and rods	14
7.6 Internal soundness	14
7.7 Dimensions, tolerances on dimensions and shape, mass	15
8 Inspection	15
8.1 Type of inspection and inspection document	15
8.2 Content of inspection document	15
8.3 Tests to be carried out for specific inspection	16
9 Frequency of testing and preparation of samples and test pieces	16
9.1 Frequency of testing	16
9.1.1 Chemical analysis	16
9.1.2 Mechanical tests	16
9.2 Preparation of samples and test pieces	16
9.2.1 Selection and preparation of samples for chemical analysis	16
9.2.2 Location of samples and orientation and test pieces for mechanical tests	17

9.2.3	Preparation of test pieces for mechanical tests.....	17
9.3	Identification of samples and test pieces.....	18
10	Test methods.....	18
10.1	Chemical analysis	18
10.2	Mechanical tests.....	18
10.2.1	Tensile test.....	18
10.2.2	Impact test.....	18
10.3	Ultrasonic testing.....	19
10.4	Retests	19
11	Marking, labelling, packaging	19
12	Complaints	19
13	Options	20
	Annex A (normative) Location of samples and test pieces.....	29
	Annex B (informative) Additional information for the use of steel with improved atmospheric corrosion resistance.....	32
	Annex C (informative) Notes on fabrication.....	33
C.1	Weldability.....	33
C.2	Riveting and bolting.....	33
	Annex D (informative) List of Options of EN 10025-2 to -6	34
	Bibliography	36

European foreword

This document (EN 10025-5:2019) has been prepared by Technical Committee CEN/TC 459/SC 3 “Structural steels other than reinforcements”, the secretariat of which is held by DIN.

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 2020 and conflicting national standards shall be withdrawn at the latest by February 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 10025-5:2004.

This document consists of the following parts, under the general title *Hot rolled products of structural steels*:

- *Part 1: General technical delivery conditions*
- *Part 2: Technical delivery conditions for non-alloy structural steels*
- *Part 3: Technical delivery conditions for normalized/normalized rolled weldable fine grain structural steels*
- *Part 4: Technical delivery conditions for thermomechanical rolled weldable fine grain structural steels*
- *Part 5: Technical delivery conditions for structural steels with improved atmospheric corrosion resistance*
- *Part 6: Technical delivery conditions for flat products of high yield strength structural steels in the quenched and tempered condition*

For a short transition period there will be a coexistence of EN 10025-1:2004 with EN 10025-2:2019 to - EN 10025-6:2019, since the new EN 10025-1 has to fulfil the requirements of the CPR and will therefore be published later. For this short transition period up-to-the publication of the next edition of part 1 the following is to be taken into account for EN 10025-1:2004:

- a) all dated and undated references to EN 10025-1:2004 to EN 10025-6:2004 are unchanged to this version with following exception: In 9.2.2.1 the references are 8.3.1 and 8.3.2 instead of 8.4.1 and 8.4.2;
- b) Clauses 5, 12 and 13 of EN 10025-1:2004 are no longer relevant.

The main changes with respect to the previous edition are listed below:

- a) part 5 is now a stand-alone standard for technical delivery conditions including the preparation of samples and test pieces, the test methods, the marking, labelling and packaging and the drawings;
- b) for applications under the CPR this document and part 1 are to be used together;
- c) requirements for elements not defined were added to 7.2.1 and 7.2.2;
- d) Option 33 were added, Options 9 and 21 were deleted;
- e) key to Figure A.1 was updated;

- f) steel grades S355J4, S420J0W, S420J2W, S420J4W, S460J0W, S460J2W and S460J4W were added to Tables 1 to 5;
- g) Annex B concerning the corresponding EURONORMS deleted;
- h) references were updated and document editorial revised.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Republic of North Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

1 Scope

This document specifies technical delivery conditions for flat and long products of hot rolled steels with improved atmospheric corrosion resistance in the grades and qualities given in Tables 2 and 3 (chemical composition) and Tables 4 and 5 (mechanical properties) in the usual delivery conditions as given in 6.3.

The thicknesses in which products of the steel grades and qualities specified in this document can be supplied are given in Table 1.

Table 1 — Product forms for the different steel grades with improved atmospheric corrosion resistance depending on their thickness

Designation		Flat products		Long products		
				Sections	Bars	Rods
Steel name	Steel number	Nominal thickness		Nominal thickness or diameter		
		mm		mm		
		≤ 12	≤ 150	≤ 63	≤ 150	≤ 60
S235J0W	1.8958		x	x	x	x
S235J2W	1.8961		x	x	x	x
S355J0WP	1.8945	x				
S355J2WP	1.8946	x				
S355J0W	1.8959		x	x	x	x
S355J2W	1.8965		x	x	x	x
S355K2W	1.8967		x	x	x	x
S355J4W	1.8787		x	x	x	x
S355J5W	1.8991		x			
S420J0W	1.8943		x	x		
S420J2W	1.8949		x	x		
S420K2W	1.8997		x	x		
S420J4W	1.8954		x			
S420J5W	1.8992		x			
S460J0W	1.8966		x	x		
S460J2W	1.8980		x	x		
S460K2W	1.8990		x	x		
S460J4W	1.8981		x			
S460J5W	1.8993		x			

The steels specified in this document are not intended to be heat treated except products delivered in the delivery condition +N. Stress relieving is accepted. Products delivered in +N condition can be hot formed and/or normalized after delivery (see Clause 3).