

# ILNAS

Institut luxembourgeois de la normalisation  
de l'accréditation, de la sécurité et qualité  
des produits et services

## ILNAS-EN 10025-3:2004

### **Hot rolled products of structural steels - Part 3: Technical delivery conditions for normalized/normalized rolled weldable fine grain structural steels**

Warmgewalzte Erzeugnisse aus  
Baustählen - Teil 3: Technische  
Lieferbedingungen für normalgeglühte/  
normalisierend gewalzte

Produits laminés à chaud en aciers de  
construction - Partie 3: Conditions  
techniques de livraison pour les aciers de  
construction soudables à grains fins à

11/2004



## National Foreword

This European Standard EN 10025-3:2004 was adopted as Luxembourgish Standard ILNAS-EN 10025-3:2004.

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**Hot rolled products of structural steels - Part 3: Technical  
delivery conditions for normalized/normalized rolled weldable  
fine grain structural steels**

Produits laminés à chaud en aciers de construction - Partie  
3: Conditions techniques de livraison pour les aciers de  
construction soudables à grains fins à l'état  
normalisé/laminage normalisé

Warmgewalzte Erzeugnisse aus Baustählen - Teil 3:  
Technische Lieferbedingungen für  
normalgeglühte/normalisierend gewalzte schweißgeeignete  
Feinkornbaustähle

This European Standard was approved by CEN on 1 April 2004.

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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.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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## Contents

Page

Foreword.....	4
<b>1</b> <b>Scope</b> .....	<b>5</b>
<b>2</b> <b>Normative references</b> .....	<b>5</b>
2.1 <b>General standards</b> .....	<b>5</b>
2.2 <b>Standards on dimensions and tolerances (see 7.7.1)</b> .....	<b>6</b>
2.3 <b>Standards on testing</b> .....	<b>6</b>
<b>3</b> <b>Terms and definitions</b> .....	<b>6</b>
<b>4</b> <b>Classification and designation</b> .....	<b>7</b>
4.1 <b>Classification</b> .....	<b>7</b>
4.1.1 <b>Main quality classes</b> .....	<b>7</b>
4.1.2 <b>Grades and qualities</b> .....	<b>7</b>
4.2 <b>Designation</b> .....	<b>7</b>
<b>5</b> <b>Information to be supplied by the purchaser</b> .....	<b>8</b>
5.1 <b>Mandatory information</b> .....	<b>8</b>
5.2 <b>Options</b> .....	<b>8</b>
<b>6</b> <b>Manufacturing process</b> .....	<b>8</b>
6.1 <b>Steel making process</b> .....	<b>8</b>
6.2 <b>Grain structure</b> .....	<b>8</b>
6.3 <b>Delivery conditions</b> .....	<b>8</b>
<b>7</b> <b>Requirements</b> .....	<b>9</b>
7.1 <b>General</b> .....	<b>9</b>
7.2 <b>Chemical composition</b> .....	<b>9</b>
7.3 <b>Mechanical properties</b> .....	<b>9</b>
7.3.1 <b>General</b> .....	<b>9</b>
7.3.2 <b>Impact properties</b> .....	<b>9</b>
7.3.3 <b>Improved deformation properties perpendicular to the surface</b> .....	<b>10</b>
7.4 <b>Technological properties</b> .....	<b>10</b>
7.4.1 <b>Weldability</b> .....	<b>10</b>
7.4.2 <b>Formability</b> .....	<b>10</b>
7.4.3 <b>Suitability for hot-dip zinc-coating</b> .....	<b>11</b>
7.5 <b>Surface properties</b> .....	<b>11</b>
7.5.1 <b>Strip</b> .....	<b>11</b>
7.5.2 <b>Plates and wide flats</b> .....	<b>12</b>
7.5.3 <b>Sections</b> .....	<b>12</b>
7.5.4 <b>Bars and rods</b> .....	<b>12</b>
7.6 <b>Internal soundness</b> .....	<b>12</b>
7.7 <b>Dimensions, tolerances on dimensions and shape</b> .....	<b>12</b>
<b>8</b> <b>Inspection</b> .....	<b>12</b>
8.1 <b>General</b> .....	<b>12</b>
8.2 <b>Type of inspection and inspection document</b> .....	<b>13</b>
8.3 <b>Frequency of testing</b> .....	<b>13</b>
8.3.1 <b>Sampling</b> .....	<b>13</b>
8.3.2 <b>Test units</b> .....	<b>13</b>
8.3.3 <b>Verification of chemical composition</b> .....	<b>13</b>
8.4 <b>Tests to be carried out for specific inspection</b> .....	<b>13</b>
<b>9</b> <b>Preparation of samples and test pieces</b> .....	<b>14</b>
9.1 <b>Selection and preparation of samples for chemical analysis</b> .....	<b>14</b>

<b>9.2</b>	<b>Location and orientation of samples and test pieces for mechanical tests .....</b>	<b>14</b>
<b>9.2.1</b>	<b>General .....</b>	<b>14</b>
<b>9.2.2</b>	<b>Preparation of samples.....</b>	<b>14</b>
<b>9.2.3</b>	<b>Preparation of test pieces.....</b>	<b>14</b>
<b>9.2.4</b>	<b>Impact test pieces .....</b>	<b>14</b>
<b>9.3</b>	<b>Identification of samples and test pieces .....</b>	<b>14</b>
<b>10</b>	<b>Test methods .....</b>	<b>14</b>
<b>10.1</b>	<b>Chemical analysis .....</b>	<b>14</b>
<b>10.2</b>	<b>Mechanical tests.....</b>	<b>14</b>
<b>10.3</b>	<b>Ultrasonic testing .....</b>	<b>14</b>
<b>10.4</b>	<b>Retests.....</b>	<b>14</b>
<b>11</b>	<b>Marking, labelling, packaging .....</b>	<b>15</b>
<b>12</b>	<b>Complaints .....</b>	<b>15</b>
<b>13</b>	<b>Options (see 5.2).....</b>	<b>15</b>
<b>Annex A (informative)</b>	<b>List of corresponding former designations .....</b>	<b>22</b>
<b>Annex B (informative)</b>	<b>List of national standards which correspond with EURONORMS referenced .....</b>	<b>23</b>
<b>Bibliography.....</b>		<b>24</b>

## Foreword

This document (EN 10025-3:2004) has been prepared by Technical Committee ECISS/TC 10 “Structural steels - Grades and qualities”, the secretariat of which is held by NEN.

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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

This document supersedes together with EN 10025-1:2004, EN 10113-1:1993, *Hot-rolled products in weldable fine grain structural steels - Part 1: General delivery conditions* and EN 10113-2:1993 *Hot-rolled products in weldable fine grain structural steels - Part 2: Delivery conditions for normalized/normalized rolled steels*.

The titles of the other parts of this document are:

*Part 1: General technical delivery conditions;*

*Part 2: Technical delivery conditions for non-alloy 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.*

This document has been prepared under Mandate M/120 given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of the EU Construction Products Directive (89/106/EEC). For relationship with the EU Construction Products Directive, see informative Annex ZA of EN 10025-1:2004.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

Part 3 of this document, in addition to part 1, specifies requirements for flat and long products of hot rolled weldable fine grain structural steels in the normalized/normalized rolled delivery condition in the grades and qualities given in Tables 2 to 4 (chemical composition) and Tables 5 to 7 (mechanical properties) in thickness  $\leq 250$  mm for grades S275, S355 and S420 and in thickness  $\leq 200$  mm for grade S460.

In addition to EN 10025-1:2004 the steels specified in this document are especially intended for use in heavily loaded parts of welded structures such as, bridges, flood gates, storages tanks, water supply tanks, etc., for service at ambient and low temperatures.

## 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.

### 2.1 General standards

EN 1011-2, *Welding – Recommendations for welding of metallic materials - Part 2: Arc welding of ferritic steels.*

EN 10020, *Definition and classification of grades of steel.*

EN 10025-1:2004, *Hot rolled products of structural steels - Part 1: General technical delivery conditions.*

EN 10027-1, *Designation systems for steels - Part 1: Steel names, principal symbols.*

EN 10027-2, *Designation systems for steels - Part 2: Numerical system.*

EN 10163-1, *Delivery requirements for surface condition of hot-rolled steel plates, wide flats and sections – Part 1: General requirements.*

EN 10163-2, *Delivery requirements for surface condition of hot-rolled steel plates, wide flats and sections – Part 2: Plates and wide flats.*

EN 10163-3, *Delivery requirements for surface condition of hot-rolled steel plates, wide flats and sections – Part 3: Sections.*

EN 10164, *Steel products with improved deformation properties perpendicular to the surface of the product - Technical delivery conditions.*

EN 10221, *Surface quality classes for hot-rolled bars and rods - Technical delivery conditions.*

CR 10260, *Designation systems for steels - Additional symbols.*