



National Standards Authority of Ireland

STANDARD

I.S. EN 10162:2003

ICS 77.140.70

National Standards  
Authority of Ireland  
Dublin 9  
Ireland

Tel: (01) 807 3800  
Fax: (01) 807 3838

**COLD ROLLED STEEL SECTIONS -  
TECHNICAL DELIVERY CONDITIONS -  
DIMENSIONAL AND CROSS-SECTIONAL  
TOLERANCES**

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on:  
September 12, 2003*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 2003

**Price Code H**

Údarás um Chaighdeán Náisiúnta na hÉireann



English version

**Cold rolled steel sections - Technical delivery conditions -  
Dimensional and cross-sectional tolerances**

Profilés en acier formés à froid - Conditions techniques de  
livraison - Tolérances dimensionnelles et sur sections  
transversales

Kaltprofile aus Stahl - Technische Lieferbedingungen -  
Grenzabmaße und Formtoleranzen

This European Standard was approved by CEN on 21 February 2003.

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 Management Centre 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 Management Centre has the same status as the official versions.

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



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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

**Contents**

page

Foreword.....4

1 Scope .....5

2 Normative references .....5

3 Terms and definitions.....7

4 Designation.....7

4.1 Designation of cold rolled sections for general applications .....7

4.1.1 General.....7

4.1.2 Section details.....7

4.1.3 Designation of split tubes .....7

4.1.4 Designation examples .....9

4.2 Designation of cold rolled sections for special applications.....9

5 Steel grades.....9

6 Delivery conditions .....9

6.1 Supply condition .....9

6.2 Edge condition .....9

6.3 Lengths .....10

6.4 End condition .....10

6.5 Delivered quantities .....10

7 Requirements .....10

7.1 Mechanical and technological properties .....10

7.2 Surface condition.....10

7.3 Nominal dimensions .....11

7.3.1 Cross sectional dimensions .....11

7.3.2 Internal bending radii .....11

7.4 Permitted dimensional and cross-sectional tolerances .....11

7.4.1 General.....11

7.4.2 Thickness.....11

7.4.3 Cross section .....11

7.4.4 Length .....12

7.4.5 Straightness .....13

7.4.6 Twist.....13

7.4.7 Concavity, convexity .....13

7.5 Mass .....14

7.6 Gross-cross-sectional characteristics .....14

8 Further processing .....14

9 Test requirements .....14

9.1 Number of test samples .....14

9.2 Test procedure .....15

9.2.1 Mechanical and technological characteristics .....15

9.2.2 Dimensions.....15

9.2.3 Surface condition.....15

9.3 Retests .....15

9.4 Material test certificates .....15

10 Identification, marking.....15

11 Packing .....16

12 Protection of surfaces, storage and transport.....16

13 Complaints.....16

<b>14</b>	<b>Ordering information</b> .....	<b>17</b>
	<b>Annex A</b> (normative) <b>Inside bending radii</b> .....	<b>18</b>
	<b>Annex B</b> (informative) <b>Further processing</b> .....	<b>20</b>
	<b>Bibliography</b> .....	<b>21</b>

## **Foreword**

This document (EN 10162:2003) has been prepared by Technical Committee ECISS /TC 13 "Flat products for cold working - Qualities, dimensions, tolerances and specific tests" the secretariat of which is held by IBN.

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 October 2003, and conflicting national standards shall be withdrawn at the latest by October 2003.

Annex A is normative and annex B is informative.

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, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.



SAI GLOBAL

This is a free 6 page sample. Access the full version online.

The remainder of this document  
is available for purchase online at

**[www.saiglobal.com/shop](http://www.saiglobal.com/shop)**

SAI Global also carries a wide range of publications from a wide variety of Standards Publishers:



Click on the logos to search the database online.