



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 10220:2002

ICS 23.040.10
77.140.70

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**SEAMLESS AND WELDED STEEL TUBES -
DIMENSIONS AND MASSES PER UNIT
LENGTH**

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
January 17, 2003*

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 10220

December 2002

ICS 23.040.10; 77.140.70

English version

**Seamless and welded steel tubes - Dimensions and masses per
unit length**

Tubes lisses en acier, soudés et sans soudure - Tableaux
généraux des dimensions et des masses linéiques

Nahtlose und geschweißte Stahlrohre - Allgemeine
Tabellen für Maße und längenbezogene Masse

This European Standard was approved by CEN on 16 October 2002.

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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 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, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document (EN 10220:2002) has been prepared by Technical Committee ECISS/TC 29, "Steel tubes and fittings for steel tubes", the Secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by June 2003, and conflicting national standards shall be withdrawn at the latest by June 2003.

When transforming the European Prestandard ENV 10220 into this European Standard EN 10220, ECISS/TC 29 regarded it as necessary to avoid any conflict with and to deviate as little as possible from ISO 4200:1991 because of the international trade in steel tubes and tubular products.

Table 1 of ENV 10220, which is identical with Table 2 of ISO 4200:1991, was therefore left unchanged for EN 10220.

Table 2 of EN 10220 contains dimensions for heavy wall tubes, that are not covered by ISO 4200:1991.

All parts of the European Standard series EN 10305 on steel tubes for precision applications contain tables with preferred dimensions, that are specific for the various parts of the standards series and the products and fields of application specified therein. Therefore, Table 3 from ENV 10220 with preferred dimensions for steel tubes for precision applications has become unnecessary, and has not been included in this standard.

This document supersedes ENV 10220:1993.

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, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

EN 10220:2002 (E)

1 Scope

This European Standard specifies, for seamless and welded circular steel tubes for general purposes (e. g. mechanical, pressure and structural applications), the following:

- preferred dimensions for outside diameter and wall thickness in millimetres and
- masses per unit length in kilogrammes per metre of plain end tube.

Technical Committees of ECISS and CEN should select these preferred dimensions for their product or functional standards, where appropriate.

The outside diameters are classified into three series reflecting the availability of accessories for piping systems (see Clause 4). This classification of outside diameters into different series and of preferred wall thicknesses indicates the range of steel tubes usually produced.

NOTE Information on dimensions for steel tubes for special applications can be found in other European Standards, e.g. prEN 10255, EN 10305 series, EN ISO 11960 and EN ISO 11961, information on dimensions for stainless steel tubes in EN ISO 1127.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

prEN 10266, *Steel tubes, fittings and structural hollow sections – Symbols and definition of terms for use in product standards*.

3 Terms and definitions

For the purpose of this European Standard the terms and definitions in prEN 10266 apply.

4 Classification of outside diameters

The outside diameters given in Tables 1 and 2 are classified into three series which may be described in the following way:

- series 1: outside diameters for which all the accessories needed for the construction of piping systems are standardized;
- series 2: outside diameters for which not all accessories are standardized;
- series 3: outside diameters for which very few standardized accessories exist.

NOTE 1 It is recommended to select, for tubes intended to be used as components of piping systems, outside diameters from series 1 in Table 1. Tubes with outside diameters in accordance with series 2 and 3 may not, or not easily, be available.

NOTE 2 Accessories for heavy wall tubes with dimensions in accordance with Table 2 may not be available regardless of the series in Table 1 to which the relevant outside diameter is allocated.

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