

**Varmformede hulprofiler av ulegerte og
finkornbehandlede konstruksjonsstål**
Del 1: Tekniske leveringsbetingelser

Hot finished structural hollow sections of non-alloy and fine grain steels
Part 1: Technical delivery conditions

Nasjonalt forord

Den engelskspråklige versjonen av europeisk standard EN 10210-1:2006 er fastsatt som Norsk Standard NS-EN 10210-1:2006.

National foreword

The English language version of European Standard EN 10210-1:2006 has been adopted as Norwegian Standard NS-EN 10210-1:2006.

English Version

Hot finished structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery conditions

Profils creux pour la construction finis à chaud en aciers non alliés et à grains fins - Partie 1 : Conditions techniques de livraison

Warmgefertigte Hohlprofile für den Stahlbau aus unlegierten Baustählen und aus Feinkornbaustählen - Teil 1: Technische Lieferbedingungen

This European Standard was approved by CEN on 16 March 2006.

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.

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, Romania, Slovakia, Slovenia, 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.....	3
1 Scope.....	4
2 Normative references	4
3 Terms, definitions and symbols	5
3.1 Terms and definitions	5
3.2 Symbols	6
4 Classification and designation	6
4.1 Classification	6
4.2 Designation	6
5 Information to be obtained by the manufacturer	7
5.1 Mandatory information.....	7
5.2 Options	7
5.3 Example of an order	8
6 Requirements.....	8
6.1 General	8
6.2 Steel manufacturing process.....	8
6.3 Structural hollow section manufacturing process.....	8
6.4 Delivery condition	9
6.5 Chemical composition	9
6.6 Mechanical properties.....	10
6.7 Technological properties	11
6.8 Surface condition	12
6.9 Non-destructive testing of welds	12
6.10 Tolerances and mass	12
7 Inspection	12
7.1 Types of inspection.....	12
7.2 Types of inspection document.....	13
7.3 Summary of inspection	13
8 Sampling	15
8.1 Frequency of tests.....	15
8.2 Preparation of samples and test pieces	16
9 Test methods	17
9.1 Chemical analysis	17
9.2 Mechanical tests.....	18
9.3 Visual inspection and dimensional check.....	18
9.4 Non-destructive testing.....	19
9.5 Retests, sorting and reprocessing.....	19
10 Marking.....	19
11 Evaluation of conformity.....	20
Annex A (normative) Structural hollow sections of non-alloy quality steels — Chemical composition and mechanical properties	21
Annex B (normative) Structural hollow sections of fine grain steels — Chemical composition and mechanical properties	23
Annex C (normative) Location of samples and test pieces	26
Annex D (normative) Evaluation of conformity.....	28
Annex ZA (informative) Clauses of this European Standard addressing the provisions of the EU Construction Products Directive.....	33
Bibliography	38

Foreword

This European Standard (EN 10210-1:2006) 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 October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

This European Standard supersedes EN 10210-1:1994.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this European Standard.

This standard consists of the following parts under the general title 'Hot finished structural hollow sections of non-alloy and fine grain steels':

- Part 1: Technical delivery conditions
- Part 2: Tolerances, dimensions and sectional properties

It forms part of a series of standards on hollow sections together with EN 10219-1 and 2, which are also under revision.

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