

**Varmvalsede flate produkter av høyfast stål
for kaldforming**
**Del 2: Leveringsbetingelser for
termomekanisk valsede stål**

Hot-rolled flat products made of high yield strength steels for cold forming
Part 2: Delivery conditions for thermomechanically rolled steels

Nasjonalt forord

Den engelskspråklige versjonen av europeisk standard EN 10149-2:1995 er fastsatt som Norsk Standard NS-EN 10149-2:1995.

National foreword

The English language version of European Standard EN 10149-2:1995 has been adopted as Norwegian Standard NS-EN 10149-2:1995.

ICS 77.140.10; 77.140.50

Descriptors: iron and steel products, hot rolled products, high yield strength steels, cold-working, metal rolling, designation, classifications, grades:quality, chemical composition, delivery condition, mechanical properties, inspection, tests, marking

English version

**Hot-rolled flat products made of high yield
strength steels for cold forming - Part 2: Delivery
conditions for thermomechanically rolled steels**

Produits plats laminés à chaud en aciers à haute limite d'élasticité pour formage à froid - Partie 2: Conditions de livraison des aciers obtenus par laminage thermomécanique

Warmgewalzte Flacherzeugnisse aus Stählen mit hoher Streckgrenze zum Kaltumformen - Teil 2: Lieferbedingungen für thermomechanisch gewalzte Stähle

This European Standard was approved by CEN on 1995-08-06. 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.

The European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart,36 B-1050 Brussels

Contents

	page
Foreword	3
1 Scope	4
2 Normative references	4
3 Definitions	4
4 Information to be supplied by the purchaser	4
4.1 General	4
4.2 Options	4
5 Dimensions, mass and tolerances	4
5.1 Dimensions and tolerances	4
5.2 Mass of steel	4
6 Classification and designation	5
6.1 Classification	5
6.2 Designation	5
7 Technical requirements	5
7.1 Steel manufacturing process	5
7.2 Delivery condition	5
7.3 Chemical composition	5
7.4 Mechanical properties	5
7.5 Technological properties	6
7.6 Surface finish	6
7.7 Internal soundness	6
8 Inspection and testing	6
8.1 General	6
8.2 Sampling	7
8.3 Test units	7
8.4 Verification of chemical composition	7
8.5 Preparation of samples and test pieces	7
8.6 Test methods	7
8.7 Retests and resubmission for testing	7
8.8 Inspection documents	7
9 Marking	7
10 Disputes	8
11 Options	8
Annex A (normative) Location of test pieces	10
Annex B (informative) List of corresponding former designations	11
Annex C (informative) Minimum inside bend radii for cold forming	12

Foreword

This European Standard was prepared by the Technical Committee ECISS/TC 10 "Structural steels - Qualities" of which the secretariat is held by NNI.

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 March 1996, and conflicting national standards shall be withdrawn at the latest by March 1996.

According to the CEN/CENELEC Internal Regulations, the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.