



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 10292:2007

ICS 77.140.50

**CONTINUOUSLY HOT-DIP COATED STRIP
AND SHEET OF STEELS WITH HIGH YIELD
STRENGTH FOR COLD FORMING -
TECHNICAL DELIVERY CONDITIONS**

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EUROPEAN STANDARD

EN 10292

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2007

ICS 77.140.50

Supersedes EN 10292:2000

English Version

Continuously hot-dip coated strip and sheet of steels with high yield strength for cold forming - Technical delivery conditions

Bandes et tôles en aciers à haute limite d'élasticité
revêtues en continu par immersion à chaud pour formage à
froid - Conditions techniques de livraison

Kontinuierlich schmelztauchveredeltes Band und Blech aus
Stählen mit hoher Streckgrenze zum Kaltumformen -
Technische Lieferbedingungen

This European Standard was approved by CEN on 3 February 2007.

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

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Foreword

This document (EN 10292:2007) has been prepared by Technical Committee ECISS/TC 27 "Surface coated flat products – Qualities, dimensions, tolerances and specific tests", the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by September 2007, and conflicting national standards shall be withdrawn at the latest by September 2007.

This document supersedes EN 10292:2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, 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.

EN 10292:2007 (E)

1 Scope

This European Standard specifies requirements for continuously hot-dip zinc (Z), zinc-iron alloy (ZF), zinc-aluminium alloy (ZA), aluminium-zinc alloy (AZ) and aluminium-silicon alloy (AS) coated flat products made of steels with high yield strength for cold forming (see Tables 1 and 3) with thicknesses up to and including 3,0 mm unless otherwise agreed. The thickness is the final thickness of the delivered product after coating.

This European Standard applies to strip of all widths and to sheets cut from it (≥ 600 mm width) and cut lengths (< 600 mm width).

The products covered by this European Standard are mainly used where cold formability and corrosion resistance for a defined minimum yield strength are the most important factors.

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.

EN 10002-1:2001, *Metallic materials — Tensile testing — Part 1: Method of test at ambient temperature*

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

EN 10021, *General technical delivery requirements for steel products*

EN 10079, *Definition of steel products*

EN 10143, *Continuously hot-dip coated steel sheet and strip — Tolerances on dimensions and shape*

EN 10204, *Metallic products — Types of inspection documents*

EN 10325, *Steel — Determination of yield strength increase by the effect of heat treatment (Bake-Hardening-Index)*

EN ISO 14284, *Steel and iron — Sampling and preparation of samples for the determination of chemical composition (ISO 14284:1996)*

ISO 10113, *Metallic materials — Sheet and strip — Determination of plastic strain ratio*

ISO 10275, *Metallic materials — Sheet and strip — Determination of tensile strain hardening exponent*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 10020, EN 10021, EN 10079, EN 10204 and the following apply.

3.1
hot-dip zinc coating (Z)
application of a zinc coating by immersing the prepared products in a molten bath containing a zinc content of at least 99 %

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