



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 10154:2002

ICS 77.140.50

**CONTINUOUSLY HOT-DIP
ALUMINIUM-SILICON (AS) COATED STEEL
STRIP AND SHEET - TECHNICAL DELIVERY
CONDITIONS**

National Standards
Authority of Ireland
Dublin 4

Telephone: 807 3800
Telex: 807 3838

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on
August 23 2002*

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

© NSAI 2002

Price Code G

Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 10154

May 2002

ICS 77.140.50

Supersedes EN 10154:1996

English version

**Continuously hot-dip aluminium-silicon (AS) coated steel strip
and sheet - Technical delivery conditions**

Bandes et tôles en acier revêtues en continu par
immersion à chaud d'une couche d'aluminium-silicium (AS)
- Conditions techniques de livraison

Kontinuierlich schmelztauchveredeltes Band und Blech aus
Stahl mit Aluminium-Silicium-Überzügen (AS) - Technische
Lieferbedingungen

This European Standard was approved by CEN on 17 February 2002.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPAISCHES 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 and definitions.....	5
4 Classification and designation	5
4.1 Classification.....	5
4.2 Designation.....	6
5 Information to be supplied by the purchaser.....	6
5.1 Mandatory information	6
5.2 Options.....	7
6 Manufacturing process	7
7 Requirements	7
7.1 Mechanical properties	7
7.2 Coatings.....	9
7.3 Surface quality	9
7.4 Surface treatment (surface protection)	10
7.5 Freedom from coil breaks.....	10
7.6 Stretcher strains (low carbon steels for cold forming).....	10
7.7 Coating mass.....	11
7.8 Adhesion of coating	11
7.9 Surface condition.....	11
7.10 Tolerances on dimensions and shape.....	11
7.11 Suitability for further processing	11
8 Testing	12
8.1 General.....	12
8.2 Test units	12
8.3 Number of tests.....	12
8.4 Sampling	12
8.5 Test methods.....	13
8.6 Retests	14
9 Marking	14
10 Packing	15
11 Storage and transportation.....	15
12 Disputes	15
Annex A (normative) Reference method for determination of the total coating mass	16
A.1 Purpose.....	16
A.2 Reagents	16
A.3 Procedure	16
A.4 Evaluation	16
Annex B (normative) Method for determination of the mass of the Al-Fe-Si alloy layer	17
B.1 Purpose.....	17
B.2 Reagents	17
B.3 Procedure	17
B.4 Evaluation	17

Foreword

This document EN 10154:2002 has been prepared by 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 November 2002, and conflicting national standards shall be withdrawn at the latest by November 2002.

This European Standard supersedes EN 10154:1996.

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 10154:2002 (E)

1 Scope

This European Standard specifies requirements for continuously hot-dip aluminium-silicon alloy coated flat products made of low carbon steels for cold forming (see Table 1) or of structural steels (see Table 2) in thicknesses $\leq 3,0$ mm. 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 aluminium-silicon alloy coating is obtained by immersing the products in a bath containing 8 % to 11 % Si (also referred to as type 1).

The available coatings, coating masses and surface qualities are given in 7.2 to 7.3 and Table 3.

The products covered by this European Standard are mainly used where heat resistance and corrosion resistance are the most important factors.

This European Standard is not applicable to steel flat products with hot-dip coating of pure aluminium (normally referred to as type 2 coating).

2 Normative references

This European Standard incorporates by dated or undated reference provisions from other publications. These *normative references* are cited at the appropriate points in the text, and the publications are listed hereafter. Subsequent amendments to, or revisions of, any of these publications apply to this draft European Standard only when incorporated in it by amendment or revision. In the case of undated references, the most recent edition of the publications referred to applies (including amendments).

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

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

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

EN 10027-1, *Designation systems for steels - Part 1: Steel names - principal symbols.*

EN 10027-2, *Designation systems for steels - Part 2: Numerical system.*

EN 10079, *Definition of steel products.*

EN 10143, *Continuously hot-dip metal coated steel sheet and strip - tolerances on dimensions and shape.*

EN 10204, *Metallic products - types of inspection documents.*

ENV 606, *Bar coded transport and handling labels for steel products.*

CR 10260, *Designation systems for steel - additional symbols.*

EURONORM 12¹⁾, *Bend test for steel sheet and strip less than 3 mm thick.*

¹⁾ Until it is transformed into an European Standard, either EURONORM 12 or the corresponding national standard may be applied.

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-