

Aluminium and aluminium alloys - Cold drawn rod/bar
and tube - Part 1: Technical conditions for inspection
and delivery

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 754-1:2016 sisaldab Euroopa standardi EN 754-1:2016 ingliskeelset teksti.	This Estonian standard EVS-EN 754-1:2016 consists of the English text of the European standard EN 754-1:2016.
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English Version

**Aluminium and aluminium alloys - Cold drawn rod/bar
and tube - Part 1: Technical conditions for inspection and
delivery**

Aluminium et alliages d'aluminium - Barres et tubes
étirés - Partie 1: Conditions techniques de contrôle et
de livraison

Aluminium und Aluminiumlegierungen - Gezogene
Stangen und Rohre - Teil 1: Technische
Lieferbedingungen

This European Standard was approved by CEN on 10 January 2016.

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European foreword

This document (EN 754-1:2016) has been prepared by Technical Committee CEN/TC 132 "Aluminium and aluminium alloys", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by September 2016, and conflicting national standards shall be withdrawn at the latest by September 2016.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 754-1:2008.

Within its programme of work, Technical committee CEN/TC 132 entrusted CEN/TC 132/WG 5 "Extruded and drawn products" to revise EN 754-1:2008.

The following technical modifications have been introduced during the revision:

- In the Normative references clause, EN 10002-1 was replaced by EN ISO 6892-1.

EN 754, *Aluminium and aluminium alloys — Cold drawn rod/bar and tube* comprises the following parts:

- *Part 1: Technical conditions for inspection and delivery*
- *Part 2: Mechanical properties*
- *Part 3: Round bars, tolerances on dimensions and form*
- *Part 4: Square bars, tolerances on dimensions and form*
- *Part 5: Rectangular bars, tolerances on dimensions and form*
- *Part 6: Hexagonal bars, tolerances on dimensions and form*
- *Part 7: Seamless tubes, tolerances on dimensions and form*
- *Part 8: Porthole tubes, tolerances on dimensions and form*

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1 Scope

This European Standard specifies the technical conditions for inspection and delivery of aluminium and aluminium alloy cold drawn rod/bar and tube for general engineering applications.

This document applies to products which are extruded and then cold drawn.

This document does not apply to:

- forging stock (EN 603),
- products delivered in coils (EN 13958),
- coiled tubes cut to length (EN 13958).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 515, *Aluminium and aluminium alloys — Wrought products — Temper designations*

EN 573-3, *Aluminium and aluminium alloys — Chemical composition and form of wrought products — Part 3: Chemical composition and form of products*

EN 754-2, *Aluminium and aluminium alloys — Cold drawn rod/bar and tube — Part 2: Mechanical properties*

EN 754-3, *Aluminium and aluminium alloys — Cold drawn rod/bar and tube — Part 3: Round bars, tolerances on dimensions and form*

EN 754-4, *Aluminium and aluminium alloys — Cold drawn rod/bar and tube — Part 4: Square bars, tolerances on dimensions and form*

EN 754-5, *Aluminium and aluminium alloys — Cold drawn rod/bar and tube — Part 5: Rectangular bars, tolerances on dimensions and form*

EN 754-6, *Aluminium and aluminium alloys — Cold drawn rod/bar and tube — Part 6: Hexagonal bars, tolerances on dimensions and form*

EN 754-7, *Aluminium and aluminium alloys - Cold drawn rod/bar and tube - Part 7: Seamless tubes, tolerances on dimensions and form*

EN 754-8, *Aluminium and aluminium alloys — Cold drawn rod/bar and tube — Part 8: Porthole tubes, tolerances on dimensions and form*

EN 2004-1, *Aerospace series — Test methods for aluminium and aluminium alloy products — Part 1: Determination of electrical conductivity of wrought aluminium alloys*

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

EN 12258-1:2012, *Aluminium and aluminium alloys — Terms and definitions — Part 1: General terms*

EN 14242, *Aluminium and aluminium alloys — Chemical analysis — Inductively coupled plasma optical emission spectral analysis*

EN 14361, *Aluminium and aluminium alloys — Chemical analysis — Sampling from metal melts*

EN ISO 6506-1, *Metallic materials — Brinell hardness test — Part 1: Test method (ISO 6506-1)*

EN ISO 6892-1, *Metallic materials — Tensile testing — Part 1: Method of test at room temperature (ISO 6892-1)*

ISO 9591, *Corrosion of aluminium alloys — Determination of resistance to stress corrosion cracking*

ASTM G47, *Standard Test Method for Determining Susceptibility to Stress-Corrosion Cracking of 2XXX and 7XXX Aluminium Alloy Products*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 12258-1:2012 and the following apply.

3.1

order document

document or set of documents agreed between supplier and purchaser at the time of ordering

[SOURCE: EN 13957:2008, 3.1]

4 Ordering information

The order document shall contain the following:

- a) form and type of product:
 - 1) form of the product (cold drawn rod/bar or tube). If tube, whether seamless or porthole/bridge;
 - 2) reference to EN 573-3 for chemical composition limits;
 - 3) reference to EN 515 for temper designation;
 - 4) purchaser application, in particular whether subsequent anodising is intended. This shall be clearly stated on the order document;
- b) reference to EN 754-2 for mechanical property limits;
- c) a reference to this document (EN 754-1);
- d) dimensions and shape of the product:
 - 1) round tube:
 - i) length;
 and only two of the following dimensions: