

Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 9: Profiles, tolerances on dimensions and form

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Võtmesõnad: fixed length, form tolerances, limit deviations, material groups, measurement, metals, non ferrous alloys, non-ferrous alloys, non-ferrous metals, pipes, pipes : tubes, profile, seamless, straightness, tolerances, tolerances (measurement), width across flats

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English Version

Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 9: Profiles, tolerances on dimensions and form

Aluminium et alliages d'aluminium - Barres, tubes et profilés filés - Partie 9: Profilés, tolérances sur dimensions et forme

Aluminium und Aluminiumlegierungen - Stranggepresste Stangen, Rohre und Profile - Teil 9: Profile, Grenzabmaße und Formtoleranzen

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Foreword

This document (EN 755-9:2008) 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of an identical text or by endorsement, at the latest by September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.

This document supersedes EN 755-9:2001.

Within its programme of work, Technical committee CEN/TC 132 entrusted CEN/TC 132/WG 5 "*Extruded and drawn products*" to revise EN 755-9:2001.

The following technical modifications have been introduced during the revision:

- Clause 2: Alloys EN AW-3102, EN AW-6010A, EN AW-6023 and EN AW-6360 are added in Group I
- Clause 2: Alloys EN AW-5049, EN AW-6014, EN AW-6262A, EN AW-6065, EN AW-6182, EN AW-7108, EN AW-7108A and EN AW-7021 are added in Group II
- Subclause 4.3: Figure 6 is added to illustrate the measurements of convexity-concavity in hollow sections

EN 755 comprises the following parts under the general title "*Aluminium and aluminium alloys — Extruded rod/bar, tube and profiles*":

- *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*
- *Part 9: Profiles, tolerances on dimensions and form*

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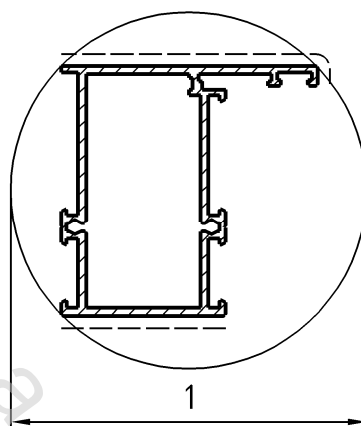
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1 Scope

This document specifies the tolerances on dimensions and form for aluminium and aluminium alloy extruded profile with a cross section contained within a circumscribing circle not greater than 800 mm (see Figure 1).

The temper designations used in this part are according to EN 515.

This standard applies to extruded profiles for general engineering applications only.



Key

- 1 circumscribing circle $CD \leq 800$ mm

Figure 1 — Circumscribing circle

2 Alloy groups

For the purpose of this document, the alloys are distributed into two groups which correspond to varying degrees of difficulty when manufacturing the products.

The division into group I and group II of the most commonly used general engineering alloys is specified in Table 1. Grouping of other alloys is subject to agreement between supplier and purchaser.