

**Aluminium and aluminium alloys -
Extruded precision profiles in alloys EN
AW-6060 and EN AW-6063 - Part 1:
Technical conditions for inspection and
delivery**

Aluminium and aluminium alloys - Extruded
precision profiles in alloys EN AW-6060 and EN AW-
6063 - Part 1: Technical conditions for inspection
and delivery

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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| <p>Käesolev Eesti standard EVS-EN 12020-1:2001 sisaldab Euroopa standardi EN 12020-1:2001 + AC:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 19.12.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p> | <p>This Estonian standard EVS-EN 12020-1:2001 consists of the English text of the European standard EN 12020-1:2001 + AC:2002.</p> <p>This document is endorsed on 19.12.2001 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p> |
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| <p>Käsitlusala: This part of EN 12020 specifies the technical conditions for inspection and delivery of alloys EN AW-6060 and EN AW-6063 extruded precision profiles manufactured with and without a thermal barrier.</p> | <p>Scope: This part of EN 12020 specifies the technical conditions for inspection and delivery of alloys EN AW-6060 and EN AW-6063 extruded precision profiles manufactured with and without a thermal barrier.</p> |
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ICS 77.150.10

Võtmesõnad: acceptance testing, area, extruded, form tolerances, limit deviations, marking, packages, packing, precision profiles, profile, properties, quality assurance, sampling, sampling methods, specification (approval), specifications, surfaces, testing

ICS 77.150.10

English version

**Aluminium and aluminium alloys - Extruded precision profiles in
alloys EN AW-6060 and EN AW-6063 - Part 1: Technical
conditions for inspection and delivery**

Aluminium et alliages d'aluminium - Profils de précision
filés en alliages EN AW-6060 et EN AW-6063 - Partie 1:
Conditions techniques de contrôle et de livraison

Aluminium und Aluminiumlegierungen - Stranggepresste
Präzisionsprofile aus Legierungen EN AW-6060 und EN
AW-6063 - Teil 1: Technische Lieferbedingungen

This European Standard was approved by CEN on 18 February 2001.

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



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Contents

| | |
|---|----|
| Foreword..... | 3 |
| 1 Scope | 4 |
| 2 Normative references | 5 |
| 3 Terms and definitions..... | 6 |
| 4 Orders or tenders..... | 6 |
| 4.1 General..... | 6 |
| 4.2 Reference to a drawing | 7 |
| 5 Requirements | 7 |
| 5.1 Production and manufacturing processes..... | 7 |
| 5.2 Quality control..... | 7 |
| 5.3 Chemical composition..... | 7 |
| 5.4 Mechanical properties | 7 |
| 5.5 Freedom from surface defects | 7 |
| 5.6 Tolerances on dimensions and form | 8 |
| 6 Test procedures | 8 |
| 6.1 Sampling | 8 |
| 6.2 Test methods..... | 8 |
| 7 Inspection documents..... | 9 |
| 8 Marking of products | 9 |
| 9 Packaging | 9 |
| 10 Arbitration..... | 9 |
| Annex A (normative) Designations and definitions of surface pretreatments | 10 |
| Bibliography | 11 |

Foreword

This European Standard 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 October 2001, and conflicting national standards shall be withdrawn at the latest by October 2001.

Within its programme of work, Technical Committee CEN/TC 132 entrusted CEN/TC 132/WG5 "Extruded and drawn products" to prepare the following standard :

- *EN 12020-1, Aluminium and aluminium alloys - Extruded precision profiles in alloys EN AW-6060 and EN AW-6063 - Part 1 : Technical conditions for inspection and delivery*

This standard is part of a set of two standards. The other standard deals with:

- *EN 12020-2, Aluminium and aluminium alloys - Extruded precision profiles in alloys EN AW-6060 and EN AW-6063 - Part 2 : Tolerances on dimensions and form.*

Annex A is normative.

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, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This part of EN 12020 specifies technical conditions for inspection and delivery of alloys EN AW-6060 and EN AW-6063 extruded precision profiles manufactured with and without a thermal barrier (see Figures 1 and 2). It applies to as extruded products supplied without further surface treatment. Precision profiles covered in this standard are distinguished from extruded profiles for general applications covered in EN 755-9 by the following characteristics:

- they are mainly for architectural applications ;
- they meet more stringent requirements regarding the surface condition of visible surfaces ;
- the maximum diameter of the circumscribing circle CD is 300 mm ;
- they are made to closer tolerances on dimensions and form.

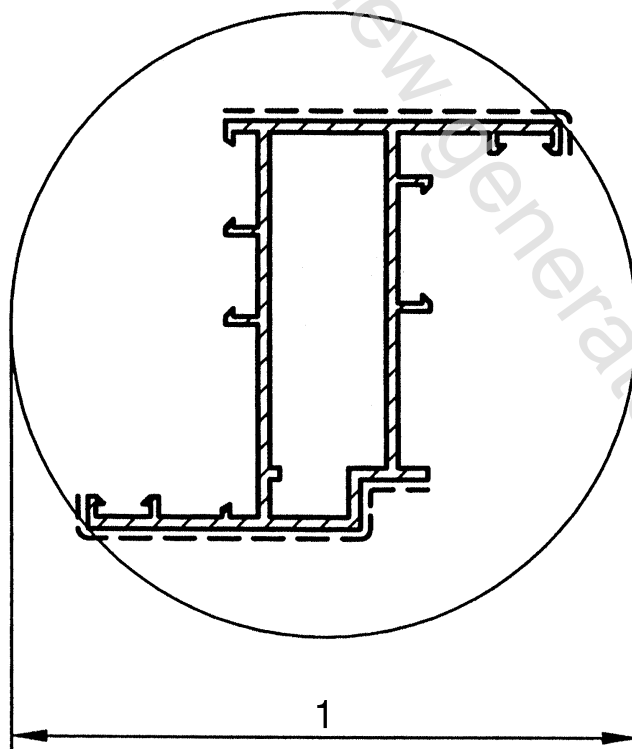
In the case of profiles which, due to the complexity of their design are difficult to manufacture and specify, then special agreements between purchaser and manufacturer may need to be reached.

NOTE 1 The thermal barrier material is not covered by this standard.

NOTE 2 Some of the products listed in the present standard can be subject to patent or patent applications, and their listing herein does not in any way imply the granting of a license under such patent right.

CEN/TC 132 affirms it is its policy that in the case when a patentee refuses to grant licenses on standardized standards products under reasonable and not discriminatory conditions then this product shall be removed from the corresponding standard.

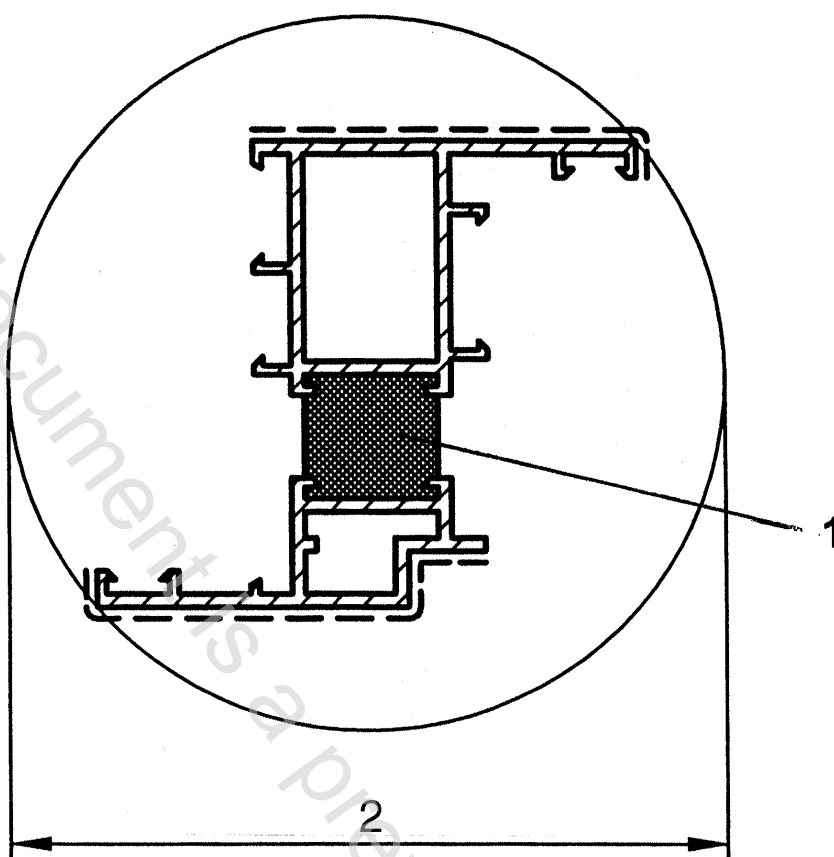
Dimensions in millimetres



Key

1 CD max. 300

Figure 1 — Profile without thermal barrier



Key

- 1 thermal barrier
- 2 CD max. 300

Figure 2 — Profile with thermal barrier

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

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.*

EN 755-1, *Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 1 : Technical conditions for inspection and delivery.*

EN 755-2, *Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 2 : Mechanical properties.*

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

EN ISO 6506-1, *Metallic materials - Brinell hardness test - Part 1 : Test method (ISO 6506-1 :1999).*

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

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

EN 12020-2, *Aluminium and aluminium alloys - Extruded precision profiles in alloys EN AW-6060 and EN AW-6063 - Part 2 : Tolerances on dimensions and form.*

3 Terms and definitions

For the purposes of this part of this European Standard, the terms and definitions given in EN 12258-1 apply.

4 Orders or tenders

4.1 General

The order or tender shall define the product required and shall contain the following information :

- a) the designation of the aluminium alloy as specified in EN 573-3 ;
- b) the temper of the material for delivery as specified in EN 515 ;
- c) the application, in particular, when surface treatment is intended; this shall be expressly stated on the order (see Annex A) ;
- d) the number of this European Standard or if not appropriate, the properties agreed between purchaser and supplier ;
- e) reference to a drawing defining the product (see 4.2), cross sectional dimensions, surface requirements and any other relevant information ;
- f) length ¹⁾ :
 - fixed or random ;
 - for random lengths minimum and maximum shall be specified ;
- g) quantity :
 - weight or number of pieces or total length ;
 - tolerance on quantity ;
- h) special requirements :
 - any special requirements agreed between the purchaser and supplier ;
 - any requirement for inspection documents ;
 - marking of products ;
 - reference to other standards, if tolerances on dimensions and form differ from this standard ;
 - additional or special testing ;
 - installation length ;
 - surface protection ;

1) An allowance for process contact points may be necessary.