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**ALUMINIUM AND ALUMINIUM ALLOYS -
EXTRUDED PRECISION PROFILES IN ALLOYS
EN AW-6060 AND EN AW-6063 - PART 1:
TECHNICAL CONDITIONS FOR INSPECTION
AND DELIVERY**

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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 - Profilés 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 10 February 2008.

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Foreword

This document (EN 12020-1:2008) 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of an identical text or by endorsement, at the latest by September 2008, and conflicting national standards shall be withdrawn at the latest by September 2008.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 12020-1:2001.

Within its programme of work, Technical committee CEN/TC 132 entrusted CEN/TC 132/WG 5 "*Extruded and drawn products*" to revise EN 12020-1:2001

The following technical modifications have been introduced during the revision:

- Clause 3: Definition of "order document" is included
- Subclause 4.2: An additional Figure 3 is included identifying visible surfaces and weld lines
- Subclause 5.5: Requirements to streaks and surface texture appearance on visible surfaces in mill finish are included
- Subclause 5.7: Requirements to tolerance on mass are included

EN 12020 comprises the following parts under the general title "*Aluminium and aluminium alloys — Extruded precision profiles in alloys EN AW-6060 and EN AW-6063*":

- *Part 1: Technical conditions for inspection and delivery*
- *Part 2: Tolerances on dimensions and form*

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1 Scope

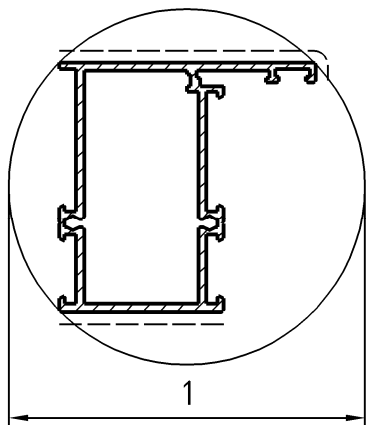
This document specifies technical conditions for inspection and delivery of alloys EN AW-6060 and EN AW-6063 extruded precision profiles manufactured with and without a thermal barrier (see Figures 1 and 2) and without further surface treatment.

Precision profiles covered in this document 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 350 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 supplier and purchaser may need to be reached.

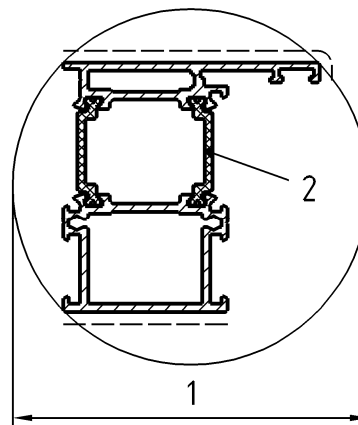
NOTE The effect of the thermal barrier material on the dimensional tolerances is covered by EN 12020-2 although the actual thermal barrier material itself is not (see EN 14024).



Key

1 CD maximum 350 mm

Figure 1 — Profile without thermal barrier



Key

1 CD maximum 350 mm
2 thermal barriers

Figure 2 — Profile containing thermal barrier

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