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Aluminium and aluminium alloys - Hot-rolled armour plates in weldable aluminium alloy - Technical delivery conditions

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

| | |
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English Version

Aluminium and aluminium alloys - Hot-rolled armour plates in weldable aluminium alloy - Technical delivery conditions

Aluminium et alliages d'aluminium - Tôles en alliage d'aluminium soudable laminées à chaud pour blindage
- Conditions techniques de livraison

Aluminium und Aluminiumlegierungen - Warmgewalzte Panzerplatten aus schweißgeeigneter Aluminiumlegierung - Technische Lieferbedingungen

This European Standard was approved by CEN on 16 January 2017.

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European foreword

This document (EN 16914:2017) 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of an identical text or by endorsement, at the latest by September 2017, and conflicting national standards shall be withdrawn at the latest by September 2017.

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1 Scope

This European Standard specifies the technical delivery conditions relating to armour plates in weldable aluminium alloy with a nominal thickness between 10 mm and 70 mm.

For thickness below 10 mm, other specifications may be applied.

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 485-1, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 1: Technical conditions for inspection and delivery*

EN 485-3, *Aluminium and aluminium alloys - Sheet, strip and plate - Part 3: Tolerances on dimensions and form for hot-rolled products*

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

EN ISO 6892-1, *Metallic materials - Tensile testing - Part 1: Method of test at room temperature (ISO 6892-1:2016)*

3 Designation

The aluminium alloys concerned by this document are designated in accordance with the categories listed in Table 1 below:

Table 1 — Categories

| Category | Characteristics | Mechanical characteristics | Temper |
|---|---|----------------------------|-------------------|
| ARAL1 | Aluminium alloy for armour ^a | See 5.2 | T651 |
| ARAL2 | Aluminium alloy for armour ^b | See 5.2 | H13X ^c |
| ^a ARAL1 aluminium alloy shall have an EN AW-7020 type chemical composition and the mechanical, ballistic and strength characteristics described in the different parts of standard in the relevant standards. ^b ARAL2 aluminium alloy shall have an EN AW-5083 type chemical composition and the mechanical characteristics described in the different parts of standard in the relevant standards. ^c According to EN 515 or as agreed between supplier and purchaser. | | | |

4 Information to be provided by the purchaser

4.1 Mandatory information (tenders and orders)

The following information shall be provided by the purchaser at the time of the call for tenders and of the order:

- a) form and nature of the product:
 - 1) the designation of the aluminium or aluminium alloy, in accordance with Table 1, specifying the temper for ARAL2;
- b) the reference to this European Standard;