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GB/T 31976-2015

**Aluminium Alloy Sheets Used for
Sound-Absorbing Composite Panel with
Through-Hole**

复合通孔吸声用铝合金板材

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Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009.

This Standard was proposed by China Non-ferrous Metals Fabrication Industrial Association.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Non-ferrous Metals (SAC/TC 243).

Drafting organizations of this Standard: Southwest Aluminum (Group) Co., Ltd., Northeast Light Alloy Co., Ltd., Xiamen Xiashun Holdings Limited, China National Institute of Standardization, Hangzhou Kunli Welding Material Co., Ltd., Chinalco Ruimin Co., Ltd., National Engineering Research Center for Plastic Working of Aluminium Alloys, China Nonferrous Metals Tech-Economic Research Institute, Yunnan Haoxin Aluminum Foil Co., Ltd., and Galuminium Group Co., Ltd.

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Aluminium Alloy Sheets Used for Sound-Absorbing Composite Panel with Through-Hole

1 Scope

This Standard specifies the requirements, test methods, inspection rules and marks, package, transportation, storage, quality certificate, and order (or contract) of the aluminium alloy sheets used for sound-absorbing composite panel with through-hole.

This Standard is applicable to the aluminium alloy sheets (hereinafter referred to as sheets) used for the sound barrier in the railway and highway.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this document.

GB/T 232 Metallic Materials - Bend Test

GB/T 3190 Wrought Aluminium and Aluminium Alloy - Chemical Composition

GB/T 3199 Wrought Aluminium and Aluminium Alloy Products - Packing, Marking, Transporting and Storing

GB/T 3880.3 Wrought Aluminium and Aluminium Alloy Plates, Sheets and Strips for General Engineering - Part 3: Tolerances on Forms and Dimensions

GB/T 7999 Optical Emission Spectrometric Analysis Method of Aluminum and Aluminum Alloys

GB/T 16865 Test Pieces and Method for Tensile Test for Wrought Aluminium and Magnesium Alloys Products

GB/T 17432 Methods for Sampling for Analyzing the Chemical Composition of Wrought Aluminum and Aluminum Alloys

GB/T 20975 (All parts) Methods for Chemical Analysis of Aluminium and Aluminium Alloys

5 Inspection Rules

5.1 Inspection and acceptance

5.1.1 The sheets shall be inspected by the supplier, ensure the sheet quality to conform to the provisions of this Standard and order (or contract), and fill in the quality certificate.

5.1.2 The purchaser shall re-inspect the sheets according to this Standard after receiving the sheets. If the inspection results don't comply with the requirements of this Standard and order (or contract), it shall be submitted to the supplier in written form, and be settled through the consultation between the supplier and purchaser. The objection on the appearance quality and dimension tolerance shall be submitted within 1 month since the date of receipt of the sheets; while the objection on other performances shall be submitted within 3 months since the date of receipt of the sheets. If arbitration is required, it can be entrusted to the organization approved by the supplier and purchaser to conduct, and carry out common sampling against the purchaser.

5.2 Batch

The sheets shall be submitted in batches; each batch shall consist of the same state and specification of the sheets.

5.3 Weighing

The sheet shall be weighed by weight-check.

5.4 Inspection items

Each batch of sheets shall be inspected the chemical compositions, dimension tolerance, mechanical properties, bending properties, and appearance quality before they leave the factory.

5.5 Sampling

The sampling of the sheets shall conform to the provisions of Table 8.

such batch of sheets shall be judged as disqualified. The supplier is allowed to inspect the sheets piece by piece through the consultation between the supplier and purchaser, and the qualified sheets can be delivered. The supplier is also allowed to repeat the heat treatment, and conduct the re-sampling inspection.

5.6.5 If the appearance quality of any sheet is disqualified, then such piece of sheet can be judged as disqualified.

6 Marks, Package, Transportation, Storage, and Quality Certificate

6.1 Marks

The marks of the sheets shall conform to the provisions of GB/T 3199.

6.2 Package, transportation, and storage

The sheets are required to coat no oil, and cushion paper package between them. The requirements for other package, transportation, and storage shall conform to the provisions of GB/T 3199.

6.3 Quality certificate

Each batch of sheets shall be accompanied by a product quality certificate, which shall indicate the following contents:

- a) Name, address, telephone, and fax of the supplier;
- b) Product name;
- c) Grade, state, and specification;
- d) Batch number;
- e) Net weight or number of boxes (pieces);
- f) This Standard number;
- g) Inspection stamp from the inspection results and inspection department for the analysis items;
- h) Packing date (or exit-factory date).

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