



**The Gambia
Standards Bureau**

BUILDING AND CONSTRUCTION MATERIALS – SPECIFICATION FOR ALUMINIUM ROOFING SHEETS

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DATE OF PUBLICATION

This Gambian Standard was Gazetted under the authority of the Bureau on 31st July 2017

THE GAMBIA STANDARDS BUREAU

The Gambia Standards Bureau is a statutory Government specialized Agency established by The Gambia Standards Bureau Act 2010 to standardize products, methods, systems and for connected matters. Hence, the Bureau is the sole National Standardization Body. As such, it has been a member of International Standardization Bodies such as the International Organization for Standardization (ISO) since 2011, International Electrotechnical Commission (IEC) and the Standards and Metrology Institute for Islamic Countries (SMIIC) from 2012.

The objectives of the Bureau, as specified in its Act, are to: establish and promulgate standards for imported and locally-produced goods; facilitate domestic and international trade; foster and promote standards both for industrial efficiency and advancing economic development; promote the health and safety of consumers; enhance international cooperation in relation to standards and standardization. Thus, the National Quality Policy details the responsibilities of the Bureau in Standardization, Metrology and Conformity Assessment services in Testing, Inspection and Certification.

Therefore, the functions, of the Bureau are to define, prepare, publish, modify or amend Standards Specifications as well information-dissemination of standards. In addition to providing Testing, Inspection and Certification services for goods, systems and processes independently or in relation to conformity with its Standards Mark, the Bureau also conducts training and research. In Metrology, the Bureau serves as the custodian of primary national reference measurement standards through its National Metrology Laboratories and conducts calibration of measurement devices and physical standards.

The development of Gambian Standards (GAMS) is carried out by the Bureau through Technical Committees composed of a balanced representation of stakeholders, as may be appropriate to the subject in question. The Bureau ensures that Standards are developed in accordance with the *ISO/IEC Guide 21-1:2005: Regional or National adoption of International Standards and other International deliverables* and the *World Trade Organization Code of good practice for the preparation, adoption and application of standards*. To the greatest extent possible, Gambian Standards are aligned to or are adoptions of relevant international standards.

For further information on and copies of Gambian Standards, please contact The Gambia Standards Bureau.

TECHNICAL COMMITTEE RESPONSIBLE: BUILDING AND CONSTRUCTION MATERIALS COMMITTEE

The Building and construction materials Committee developed this Standard Specification for Aluminium Roofing Sheets. The Committee was set up by Bureau in 2016 to work on the development of national standards in the building and civil engineering field.

The BCM consists of representatives from the following Institutions/Organizations:

- Ministry of Transport, Works and Infrastructure
- National Road Authority
- Department of Physical Planning
- Association of Gambian construction Contractors (GACCON)
- University of the Gambia
- Gambia Technical Training Institute
- Insight Training Institute
- GACEM
- Social Security and Housing Finance Cooperation
- GAMWORKS
- Association Real Estates Companies
- Gambia Fire and Rescue Services
- Jah Oil Company
- Salam Cement Company
- Gambia Competition and Consumer Protection Commission
- ABSA Consultancy
- Finish Profiles the Gambia

The Gambia Standards Bureau is the Secretary to the Building and Construction Materials Technical Committee.

Foreword

The Gambia Standards Bureau is the National Statutory Body responsible for the development and promulgation of Gambian Standards.

The Gambia Standards Bureau is a member of the African Organization for Standardization (ARSO), the International Organization for Standardization (ISO) and an affiliate member of the International Electrotechnical Commission (IEC).

This Gambia Standards is the standard for Building and Construction Materials – Guide to Quality Sandcrete Block Manufacturing. It lays down the essential requirements to which such blocks must conform.

The National Committee responsible for this standard is the Technical Committee for Building and Construction Materials.

This is the 3rd edition. It cancels and replaces the 2nd Edition which has been technically revised. The main changes from the previous edition are as follows;

- a. Inclusion of other alloy types in table 1.
- b. Specified thickness of $0,15 < t \leq 0,32$ has been deleted from table 2.
- c. Clause 4.5 has been expended to include other profile types.
- d. Addition of a new clause 4.7.3 on painting adherence

Users of this standard should note that the standard undergoes revision from time to time and any references to it statutorily imply its latest edition.

Building and Construction Materials – Specification for Aluminium Roofing Sheets

1. Scope

1.1 This Gambia Standard specifies the minimum requirements for materials, profile, dimensions (including tolerances) and finish for profiled aluminium sheet (plain, embossed or painted) for roofing.

1.2 This standard does not address fixing accessories for building purposes and code of practice for use of roofing sheet.

2. Normative reference

The following reference documents are indispensable for the application of this Standard. The latest edition of the reference document (including any amendments) applies.

2.1 ISO 6892-1 Metallic materials -- Tensile testing -- Part 1: Method of test at room temperature

2.2 GS ISO 209 Aluminium and aluminium alloys—Chemical composition

2.3 GS ISO 7438 Metallic materials — Bend test

2.4 ASTM B 209 Standard Specification for Aluminium and Aluminium – Alloy Sheet and Plate

2.5 ASTM E 34 Standard Test Methods for Chemical Analysis of Aluminum and Aluminum- Base Alloys