

**Coated steel roofing and walling
accessories — Specification**

DKS 2909:2020

TECHNICAL COMMITTEE REPRESENTATION

The following organizations were represented on the Technical Committee:

Maisha Mabati Mills Ltd.
Kenya Industrial Research and Development Institute (KIRDI)
Consumer Information Network
Mabati rolling mills Ltd.
Tononoka Steels Ltd.
Kaluworks Ltd.
Numerical Machine Complex
University of Nairobi
Space and Style
Strathmore University
Ministry of Transport and Infrastructure — Materials Testing
Multimedia University of Kenya
Kenya Bureau of Standards — Secretariat

Kenya Bureau of Standards — Secretariat

REVISION OF KENYA STANDARDS

In order to keep abreast of progress in industry, Kenya Standards shall be regularly reviewed. Suggestions for improvements to published standards, addressed to the Managing Director, Kenya Bureau of Standards, are welcome.

© Kenya Bureau of Standards, 2017

Copyright. Users are reminded that by virtue of Section 25 of the Copyright Act, Cap. 130 of 2001 of the Laws of Kenya, copyright subsists in all Kenya Standards and except as provided under Section 25 of this Act, no Kenya Standard produced by Kenya Bureau of Standards may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from the Managing Director.

Coated steel roofing and walling accessories — Specification

KENYA BUREAU OF STANDARDS (KEBS)

Head Office: P.O. Box 54974, Nairobi-00200, Tel.: (+254 020) 605490, 602350, Fax: (+254 020) 604031
E-Mail: info@kebs.org, Web: <http://www.kebs.org>

Coast Region

P.O. Box 99376, Mombasa-80100
Tel.: (+254 041) 229563, 230939/40
Fax: (+254 041) 229448

Lake Region

P.O. Box 2949, Kisumu-40100
Tel.: (+254 057) 23549, 22396
Fax: (+254 057) 21814

Rift Valley Region

P.O. Box 2138, Nakuru-20100
Tel.: (+254 051) 210553, 210555

DKS 2909:2020

Foreword

This Kenya Standard was prepared by the Technical Committee on Steel and Aluminum products and metallurgy under the guidance of the Standards Project Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

During the development of this standard, reference was made to the following documents;

KS EAS 11, Galvanized plain and corrugated iron sheets — Specification

KS EAS 410, Hot-dip aluminium-zinc coated plain and corrugated steel sheets — Specification

KS EAS 468, Pre-painted metal coated steel sheets and coils — Specification

KS 2025, Metal roofing tiles — Specification

Acknowledgement is hereby made for the assistance derived from these sources.

Coated steel roofing and walling accessories — Specification

1 Scope

This Kenya Standard specifies requirements for roofing and walling accessories made from galvanized, galvalume, pre-painted or granulated steel for external use.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

KS EAS 11, *Galvanized plain and corrugated iron sheets — Specification*

KS EAS 410, *Hot-dip aluminium-zinc coated plain and corrugated steel sheets — Specification*

KS EAS 468, *Pre-painted metal coated steel sheets and coils — Specification*

KS 2025, *Metal roofing tiles — Specification*

3 Terms and definitions

For the purposes of this standard, the following terms and definitions shall apply:

3.1 ridge

narrow caps made of metal coated, pre-painted or granulated pre-painted steel sheeting installed at the highest point of a pitched roof and runs the length of the roof to keep water from making its way into the attic

3.2 flashing

narrow pieces of metal coated, pre-painted or granulated steel sheeting that are installed at the intersection between the vertical faces of walls or framing and pitched roofs, flat roofs, gutters etc. to prevent moisture ingress into joints

They are classified into

- a) Horizontal cover flashings
- b) Apron flashings
- c) Stepped cover flashings
- d) Raking cover flashings

3.3 valleys

a trough made of galvanized, galvalume, pre-painted or granulated steel sheeting installed at the intersection of two roof surfaces having an external angle less than 180° to provide water drainage from the roof

3.4 louvre

a ventilation product made from galvanized, galvalume or pre-painted steel that allows air to pass through it whilst keeping out unwanted elements such as water, dirt and debris. It comprises of a framed opening installed on walls, windows or doors and fitted with moveable or fixed horizontal steel slats.

3.5 gutter

a trough made of galvanized, galvalume or pre-painted steel that is attached to the roof of a building that collects and directs rain water away from the roof and the eaves

3.6 downpipe

a pipe made of galvanized, galvalume or pre-painted steel attached to the side of a building, through which water flows from the roof into a drain

3.7 length

distance along the profile

3.8 width

distance across the profile

3.9 profile

the shape obtained after profiling steel sheet in a roll former to form respective accessory

4 Requirements

4.1 General

4.1.1 All roofing and walling accessories shall be made of materials conforming to KS EAS 11, KS EAS 410, KS EAS 468, and KS 2025 as per specific specification for the quality ordered.

4.1.2 All roofing and walling accessories shall meet the specification of this standard.

4.1.3 The profile of respective accessory shall be as per agreement between purchaser and manufacturer.

4.2 Dimensions

4.2.1 Length

The length of respective accessory shall be as agreed between purchaser and manufacture and shall not differ by more than $\pm 5\%$ of nominal value indicated by manufacturer. Dimensions for length shall be expressed in millimetres (mm).

4.2.2 Width

The actual width of relevant accessory shall be as agreed between purchaser and manufacture and shall not differ by more than $\pm 2.5\%$ of nominal value indicated by manufacturer. Dimensions for width shall be in expressed in millimetres (mm).

4.2.3 Thickness

The thickness of material of accessory construction shall be the thickness specified in KS EAS 11, KS EAS 410, KS EAS 468, and KS 2025. Dimensions for thickness shall be expressed in millimetres (mm).

4.3 Workmanship

The surface of an accessory shall be free from defects that may be detrimental to its practical use from its serviceability or appearance or both.

5 Marking

5.1 Each accessory piece shall be legibly marked with the following information:

- a) the manufacturer's name or trademark or both;
- b) the batch identification;
- c) thickness in millimetres (mm);
- d) coating designation; and
- e) manufacturer's standardization mark (SM) permit number.

5.2 For pre-painted and granulated accessories the marking shall be on the reverse side whereas for galvanized or galvalume accessories, making shall be on either side.

6 Inspection

Inspection shall be as follows:

- a) Respective accessory sample taken shall comply with the requirements in 4.3 and Clause 5
- b) When part of the test results for physical properties of the accessory construction material fail to meet the requirements, a retest using double the number of test pieces taken from the same batch or lot is permitted. The test methods used to measure the physical properties shall be in accordance with KS EAS 11, KS EAS 410, KS EAS 468 and KS 2025.

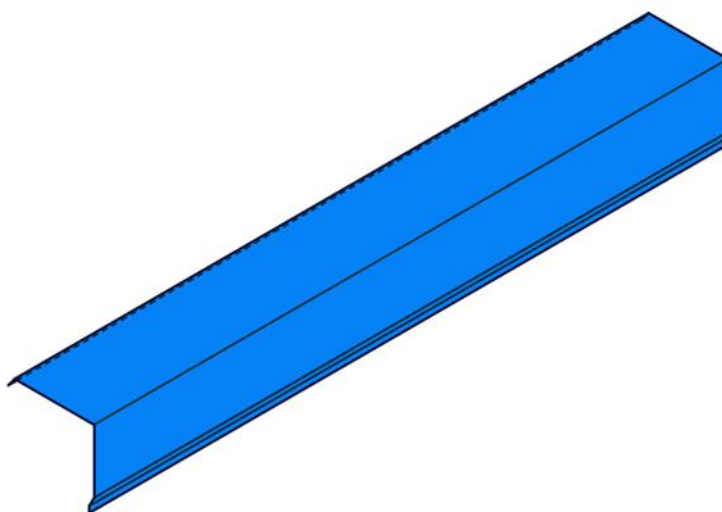
Annex A
(informative)

Examples of Accessories profile types

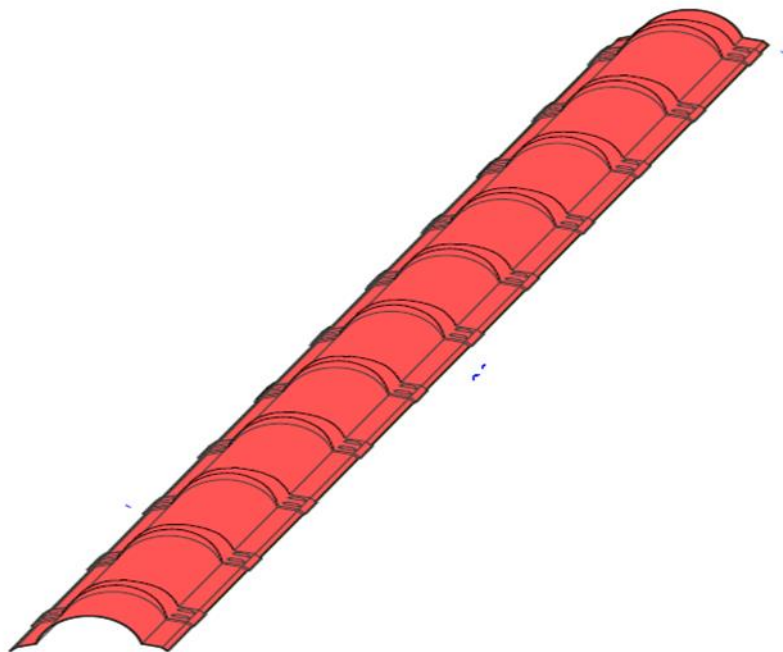
A.1 Girth ridge



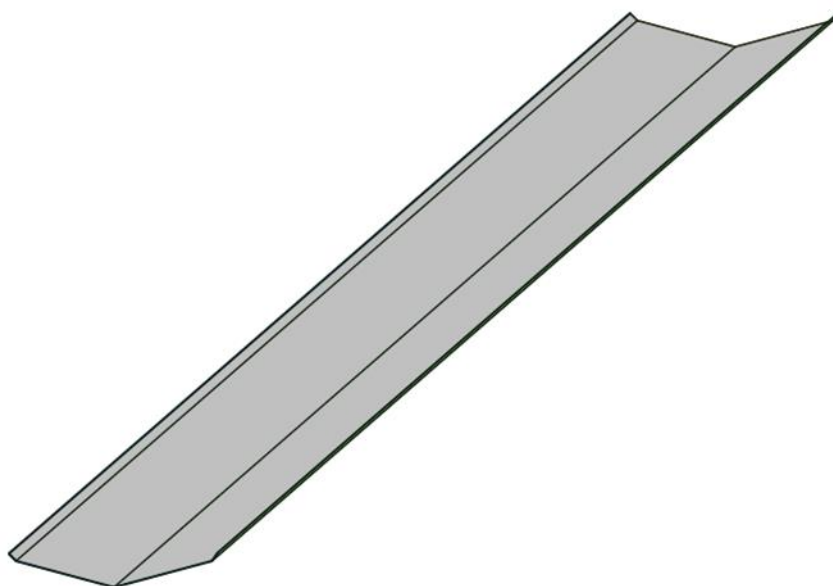
A.2 Barge flashing



A.3 Ribbed girth ridge



A.4 Valley



A.5 Gutter



A.6 Louvre

