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## DRAFT EAST AFRICAN STANDARD

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Grill for domestic LPG cylinders — Specification

EAST AFRICAN COMMUNITY

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East African Community  
P.O. Box 1096,  
Arusha  
Tanzania  
Tel: + 255 27 2162100  
Fax: + 255 27 2162190  
E-mail: [eac@eachq.org](mailto:eac@eachq.org)  
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## Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in the East African Community. It is envisaged that through harmonized standardization, trade barriers that are encountered when goods and services are exchanged within the Community will be removed.

The Community has established an East African Standards Committee (EASC) mandated to develop and issue East African Standards (EAS). The Committee is composed of representatives of the National Standards Bodies in Partner States, together with the representatives from the public and private sector organizations in the community.

East African Standards are developed through Technical Committees that are representative of key stakeholders including government, academia, consumer groups, private sector and other interested parties. Draft East African Standards are circulated to stakeholders through the National Standards Bodies in the Partner States. The comments received are discussed and incorporated before finalization of standards, in accordance with the Principles and procedures for development of East African Standards.

East African Standards are subject to review, to keep pace with technological advances. Users of the East African Standards are therefore expected to ensure that they always have the latest versions of the standards they are implementing.

The committee responsible for this document is Technical Committee EASC/TC 038, *Liquefied Petroleum and Natural Gas Equipment and Accessories*.

Attention is drawn to the possibility that some of the elements of this document may be subject of patent rights. EAC shall not be held responsible for identifying any or all such patent rights.

During the preparation of this Standard, reference was made to the following document:

Acknowledgement is hereby made for the assistance derived from this source.



## Grill for domestic LPG cylinders — Specification

### 1 Scope and field of application

This Draft East African Standard specifies the requirements and test methods for grills which are directly coupled on 6 kilograms domestic liquefied petroleum gas (LPG) cylinders.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

This document does not contain normative references.

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

#### 3.1

##### **LPG (Liquefied Petroleum Gas)**

pure propane, butane or a mixture of the propane and butane

#### 3.2

##### **test type**

test or series of tests conducted to prove that the design meets the requirements of this standard

#### 3.3

##### **grill**

a detachable device used on LPG cylinder to support cooking utensils

### 4 Shape and dimensions

#### 4.1 Shape

4.1.1 The grills shall be of a circular top profile and standing on at least three legs.

4.1.2 A typical shape of the grill may be as illustrated in Annex A.

#### 4.2 Dimensions

The dimensions for a typical grill shall be as shown in Figure 1.

All dimensions in mm

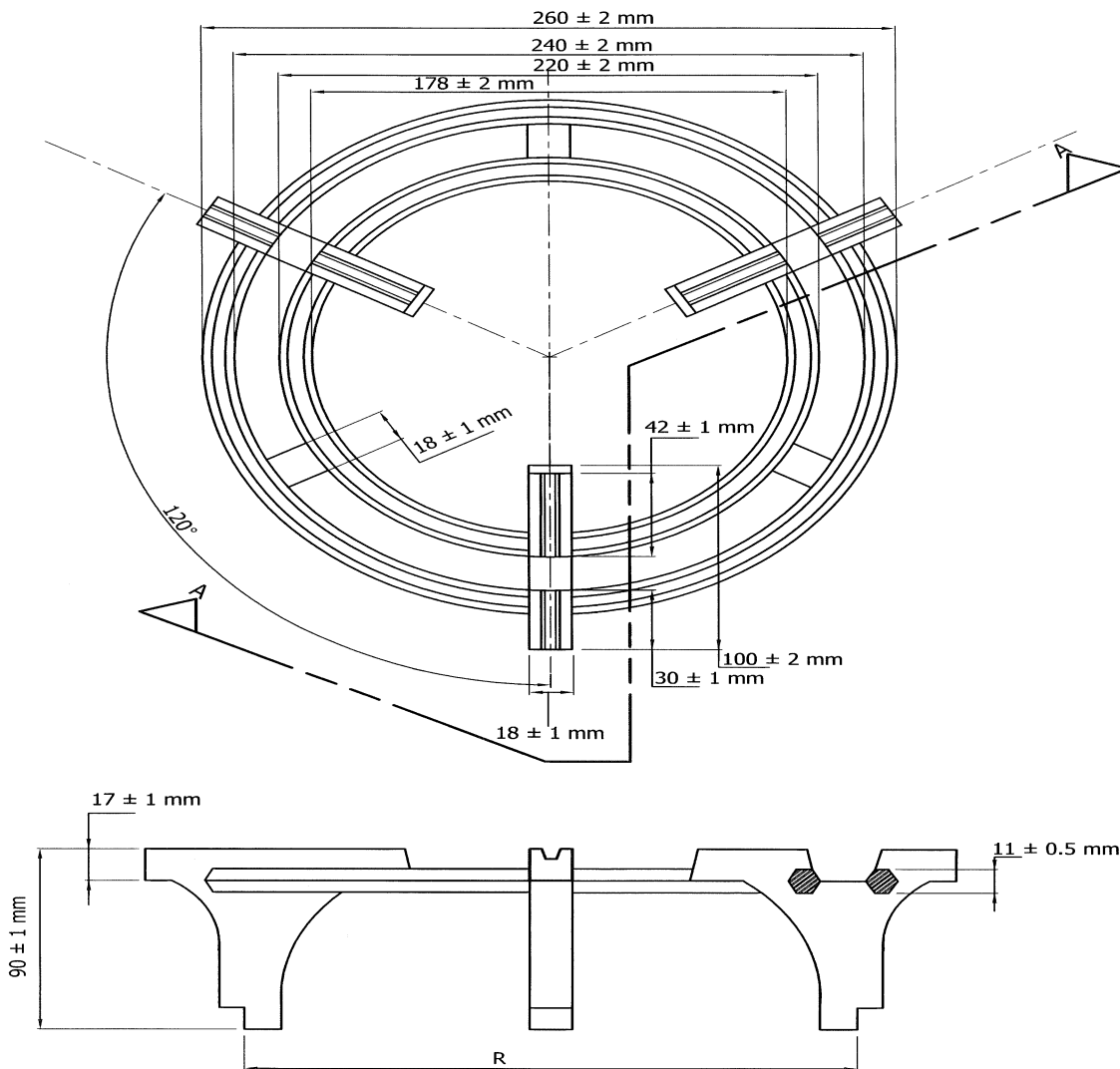


Figure 1 — Plan and sectional elevations

NOTE D is the outer diameter of the grill legs' bottom which shall be dependent on the inner diameter of the cylinder collar on which the grill shall be placed.

**(PARTNER STATES TO SEND TO SECRETARIAT DATA ON MEASUREMENTS ON**

**1 OUTER DIAMETER OF THE GRILL LEG (D)**

**2 OVERALL HEIGHT OF THE GRILL**

## 5 Requirements

### 5.1 Performance

#### 5.1.1 Strength

The grill shall be made such that when subjected to 200 N of weight, it shall not fail when tested in accordance with Annex

### 5.1.2 Stability

The finished grill shall be stable when placed on level ground while standing on the legs and when placed on its top side.

## 5.2 Material

5.2.1 The grill shall be made out of an aluminium alloy

5.2.2 The lead content in the aluminium alloy shall not exceed 2.5 %..

NOTE steel may be used but with different design parameters from the ones shown in figure 1

## 5.3 Finish

The grill shall be free from burrs, sharp edges, blow holes and any other defects which might affect its performance.

## 6 Packaging and marking

### 6.1 Packaging

The grills shall be packaged in such a manner to avoid damage during transportation or storage.

### 6.2 Marking

6.2.1 The grill shall be legibly and indelibly marked with

- a) the manufacturer's name/trademark; and
- b) batch identification

6.2.2 The grill may also have the purchaser's name/trade mark;





**Figure 1 — Typical grill**

Partner States to provide other grill designs

**Annex B**  
**Strength test**

- B.1** Take a circular steel support with diameter equal to  $D$
- B.2** Mount the grill on it.
- B.3** Apply a compression load of 200N using a compression machine
- B.4** Take readings at the point at which failure occurs.

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## Bibliography

[1] KS 2171:2008, Grill for domestic LPG cylinders — Specification

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