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# EAST AFRICAN STANDARD

## Squeegee (rubber squeezer) — Specification



## EAST AFRICAN COMMUNITY



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## Copyright notice

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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. XXXXXX.

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 072, *Plastics and related products*.

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.



 

# Squeegee (rubber squeezer) — Specification

## 1 Scope

This Draft East African Standard specifies the requirements, methods of sampling and test for hand operated squeezer for floors and windows

## 2 Normative references

The following referenced documents 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.

ISO 13061-1, *Physical and mechanical properties of wood — Test methods for small clear wood specimens — Part 1: Determination of moisture content for physical and mechanical tests*.

## 3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at http://www.iso.org/obp

**3.1**
**plastic**
solid material which contains, as an essential ingredient, one or more synthetic organic high polymers and which is formed (shaped) during either manufacture of the polymer or the fabrication into a finished product by heat and/or pressure

**3.2**
**wood**
aggregate of secondary tissues found in stems, branches and roots of woody plants between the bark and pith

**3.3**
**rubber**
natural or synthetic elastic polymer (elastomer) which forms the basis of the compound used in many rubber products

**3.4**
**lot**
definite quantity of squeezers manufactured or produced under conditions that are presumed uniform

**3.5**
**block**
part to which the filling material “blade” is secured



 

**3.6**
**Squeezer/squeegee**
tool with a flat, smooth blade, used to remove or control the flow of liquid on a flat surface.

**3.7**
**groove**
long, narrow, hollow space cut into a block where the blade sheet is attached

**3.8**
**blade**
wiping tool/rubber sheet placed in the groove of the block

**3.9**
**Consignment**
quantity of squeezers of the same specifications made available for dispatch at the same time

# 4 Requirements

## 4.1 General requirements

**4.1.1** The rubber squeezer shall have smooth finish and all the components (block, blade and handle) shall be free from imperfections and defects which might affect the appearance, impair its serviceability or performance.

**4.1.2** Plastic components shall be made of plastic which does not significantly deflect while the squeezer is in use

**4.1.3** Wooden components shall be free from brashness, any biological or non-biological deterioration, insect attack, pith, knots (except pin knots), cracks and any other defect that may reduce the life of the brush and affect its utility.

### 4.1 4 Handle

**4.1.4.1** The handle shall be made of a suitable material. It shall be free from any defects and shall not deflect during use It may be plastic, wood or metal

**4.1.4.2** Handles shall be firmly attached to the block.

**4.1.4.3** Straight-grained hardwood, painted or vanished shall be used for wooden handles.

**4.1.4.4** Metallic handles shall be insulated.

### 4.1.5 Blade

The blade shall pass the tests given in clause 4.1.5.1 and 4.1.5.2

#### 4.1.5.1 Pull test

The rubber sheet shall remain unmovable inside the block and shall not come out when subjected to a straight push and pull with thumb and finger grip.

#### 4.1.5.2 Flexibility test

The rubber sheet when bent at an angle of 180” shall show no crack split or break in the sheet. In addition on releasing the pressure while in bent position , the sheet shall assume its normal shape.



 

**4.1.5.3** The rubber sheet shall be of uniform size and length, virtually free from defects and shall be firmly secured in the block.

**4.1.5.4** The squeezer shall be able to dry the wet surface when used in both the forward (push) and backward (pull) directions

**4.1.5.5**. The Squeezer blade shall at all times, maintain firm contact with the floor when pressure is applied on the handle

### 4.2 Specific requirements

**4.2.1** Moisture content for wooden block and handle, shall be determined in accordance with ISO 13061-1, shall not exceed 15 %.

**4.2.2** When metal is used as any of the components of the squeezer, it shall be corrosion-resistant or shall be protected against corrosion when tested in accordance with Annex A.

**4.2.3** The squeezer shall comply with the minimum dimensions given in the Table 1

**Table 1 — Minimum dimensions for specific parts of the floor squeezer**

| Specific part of the squeezer | Dimensions, (mm) |
|---|---|
| Handle length | 1500 |
| Rubber length | 300 |
| Groove length | 300 |
| Rubber protrusion from the groove | 15 |

## 5 Labelling

**5.1** The squeegee shall be legibly and indelibly labelled in English and/or any other official language (French, Kiswahili etc.) of the importing East African country with the following information:

a) Name of the manufacturer and/or trademark;

b) Batch number; and

c) Code of resin if plastic material is used.

**5.2** The package shall be legibly and indelibly labelled in English and/or any other official language (French, Kiswahili etc.) of the importing East African country with the following information :

a) Name of product “Squeegee”;

b) Country of origin;

c) Batch number

**5.3** The bulk package shall be legibly and indelibly labelled in English and/or any other official language (French, Kiswahili etc.) of the importing East African country with the following information:

a) manufacturer’s name, physical address and /or registered trade mark;

b) name of the product as, “Squeegee”;



 

c) declaration of the number of squeegees in the bulk package;

d) batch or code number;

e) instruction for storage and disposal of the bulk packaging material; and

f) country of origin.

## 6 Packaging

The packaging shall be as agreed between the purchaser and the supplier

## 7 Sampling

The method of sampling of squeezers and criteria for conformity shall be as prescribed in Annex B.

# Annex A
(normative)

# Determination of Corrosion Resistance

## A.1 Procedure

Submerge all metal components for 7 h in distilled water, then dry them as rapidly as possible at a temperature not exceeding 70 °C and examine the surfaces that are required to be corrosion resistant for freedom from corrosion.

## A.2 Results

The surfaces shall show no sign of corrosion



 

# Annex B
(normative)

# Sampling and Criteria for Conformity

## B.1 Samples for approval

**B.1.1** The supplier shall submit three identical squeezers corresponding to each type and size for approval.

**B.1.2** The purchaser or inspection authority, as applicable, shall retain one of the three samples.

## B.2 Scale of sampling

**B.2.1** In any consignment, all squeezers of the same size, construction and method of manufacture shall be grouped to constitute a lot.

**B.2.2** Each lot shall be tested separately for its conformity to the requirements of this specification. The number of squeezers to be selected for this purpose from each lot depends on the size of the lot and shall be in accordance with Table B1

**Table B1 – Scale of Sampling and Permissible Number of Defectives**

| Lot size | For visual and dimensional tests | |
|---|---|---|
| | No. of squeezers to be Selected | Permissible No. of Defectives |
| 0 to 25 | 3 | 0 |
| 26 to 50 | 5 | 0 |
| 51 to 100 | 8 | 1 |
| 101 to 300 | 13 | 1 |
| 301 and above | 20 | 2 |
| **NOTE** :The plan in this table provides for the acceptance of a lot containing not more than 4 % defective squeegees most of the times | | |

**B.2.3** The squeezers shall be selected at random. To ensure this, a random number on the table may be used. Alternately, the following procedure may be adopted: Arrange the squeezers in order, count them as 1, 2, up to r and so on where r is the integral part of N/n (N being the lot size and n being the sample size). Repeating this process, every $r^{th}$ broom shall be withdrawn to constitute the sample.

## B.3 Number of tests and criteria for conformity

**B.3.1** The squeezers selected according to B.2.3 shall be examined for the qualities in clause 4. The number of defective squeezers in the sample shall not exceed the corresponding permissible number of defectives given in column 3 of Table B1 if the lot is to be accepted in respect of these requirements



 

**B.3.2** One test per 10 squeezers or part thereof shall be conducted for the determination of moisture content of timber in the case of wooden squeezers.

**B.3.3** for pull test and flexibility tests, two brushes from the sample shall be tested individually.

**B.3.4** there shall be no failure in the tests conducted in clause 5 if the lot is to be finally accepted as satisfactory.



 

# Bibliography

[1] IS 13348:1992, *Brush, rubber squeezer with handle*

[2] TBS/ CDC 18 (4992) P3 – *Wet Mops – Specification (Revision of TZS 1097:2010)*