



**SLOVENSKI STANDARD**  
**kSIST FprEN 16287-2:2013**

**01-september-2013**

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**Steklena embalaža - Grla z navojem za steklenice pod tlakom - 2. del: Nevračljiva steklena grla MCA 1**

Glass packaging - Screw finishes for pressure capsules - Part 2: One way glass MCA 1 finish

Verpackungen aus Glas - Schraubmundstücke für Flaschen mit Innendruck - Teil 2: Einweg- MCA 1-Mundstück

Emballage en verre - Bagues à vis pour capsules à pression - Partie 2: Bague MCA 1 pour verre perdu

**Ta slovenski standard je istoveten z: FprEN 16287-2**

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**ICS:**

55.100            Steklenice. Lonci. Kozarci            Bottles. Pots. Jars

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**en,fr,de**



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**FINAL DRAFT**  
**FprEN 16287-2**

July 2013

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ICS 55.100

English Version

## Glass packaging - Screw finishes for pressure capsules - Part 2: One way glass MCA 1 finish

Emballage en verre - Bagues à vis pour capsules à pression - Partie 2: Bague MCA 1 pour verre perdu

Verpackungen aus Glas - Schraubmündstücke für Flaschen mit Innendruck - Teil 2: Einweg-MCA 1-(Glas-)Mundstück

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If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## Foreword

This document (FprEN 16287-2:2013) has been prepared by Technical Committee CEN/TC 261 “Packaging”, the secretariat of which is held by AFNOR.

This document is currently submitted to the Unique Acceptance Procedure.

FprEN 16287, *Glass packaging — Screw finishes for pressure capsules*, consists of the following parts:

- *Part 1: Returnable glass MCA 1 finish*
- *Part 2: One way glass MCA 1 finish*

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**FprEN 16287-2:2013 (E)**

**Introduction**

This European Standard is based on CE.T.I.E. (International Technical Centre for Bottling and related Packaging) data sheet GME 32.05.[1]

Efficient packaging is of great importance for the distribution and the protection of goods. Insufficient or inappropriate packaging can lead to damage or wastage of the contents of the pack.

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## 1 Scope

This European Standard specifies the dimensions of the 28 mm screw finish for glass containers designated MCA 1 for one way glass.

## 2 Terms and definitions

For the purposes of this document, the following term and definition applies.

### 2.1

#### MCA

(glass) finish designed for the closure of pressurized or vacuum liquids with a tamper-evident closure (metal or plastic)

## 3 Dimensions

The design and dimensions of the finish shall be as shown in Table 1 and Figure 1, Figure 2, Figure 3, Figure 4 and Figure 5.

**Table 1 — Design and dimensions of the finish**

Pitch	$\beta$	TPI	$\varnothing$ cutter
3,175 mm	2° 12'	8	12,5 mm
$\beta$ = Helix angle or angle of fixture to cutter.			
NOTE TPI = Threads per Inch. One inch is equal to 25,4 mm.			

The Tan  $\beta$  of helix angle for cutter is calculated via the following formula:

$$\tan \beta = \frac{\text{pitch}}{\pi(\text{nominal } T + \text{nominal } E)}$$

where

$T$  is the thread diameter;

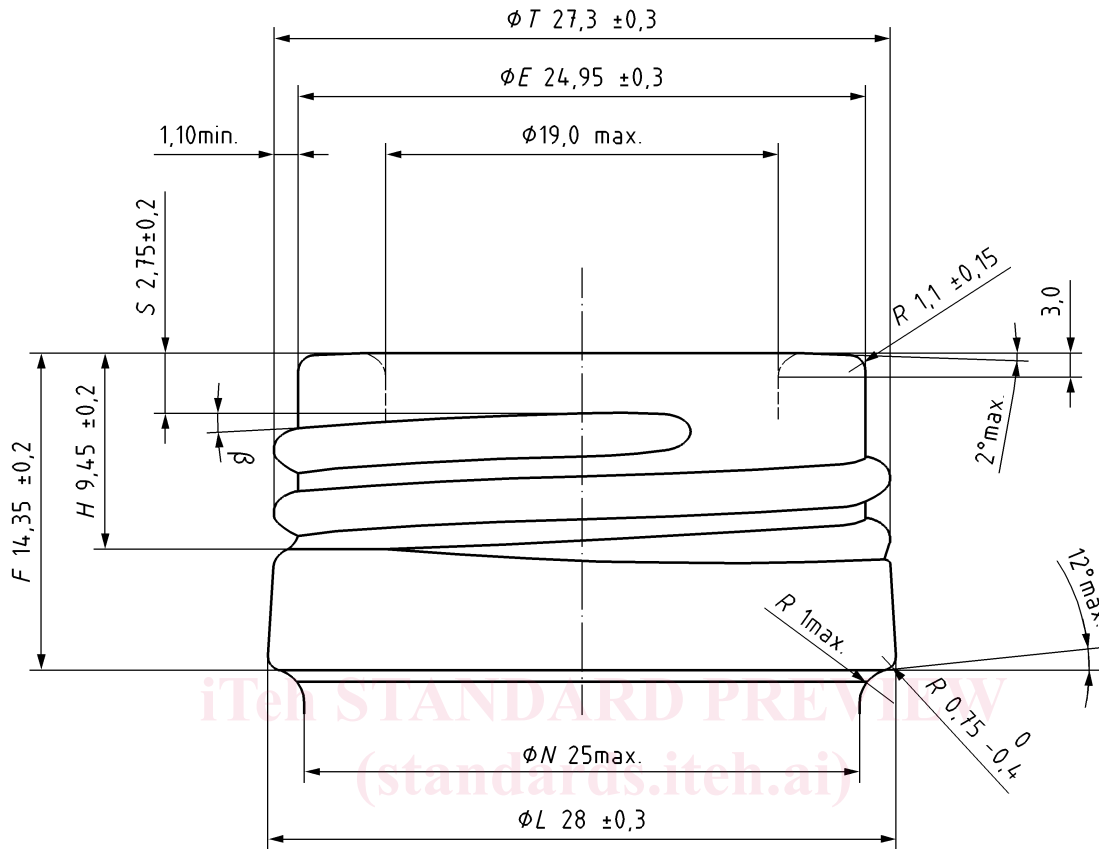
$E$  is the wall diameter of threaded finish.

The average of the maximum and minimum of «  $L$  » diameter is as close as possible to «  $L$  » nominal.

The mean diameter  $L \frac{\text{diameter max} + \text{diameter min}}{2}$  is in the tolerance of  $\pm 0,2$  mm.

Optional: Depressed thread at mould parting line (see EN 16292).

Dimensions in millimetres



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**Key**

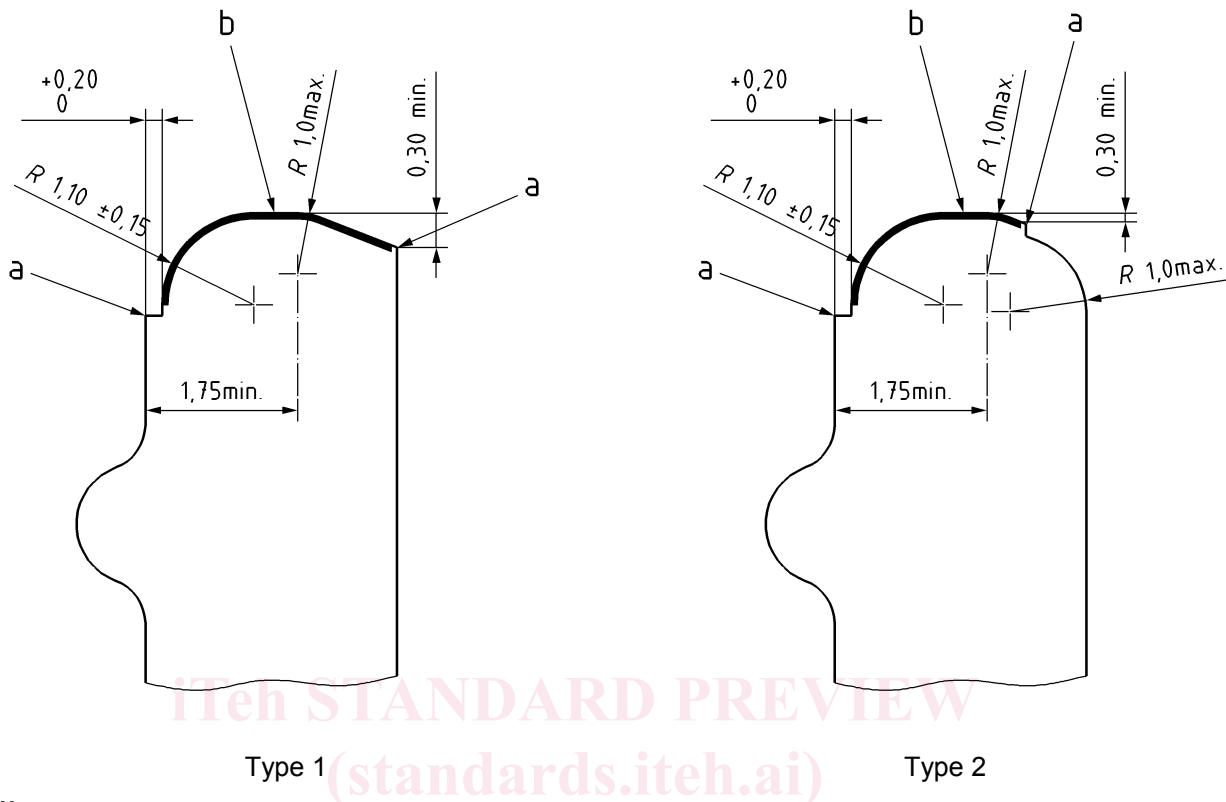
- N* neck (under bead) diameter
- H* thread height
- S* start of thread position from sealing surface to intersection of thread flank
- F* height of the finish
- L* locking bead diameter
- T* thread diameter
- E* wall diameter of threaded finish

NOTE Bore diameter 19 mm max. for a depth of 3 mm

**Figure 1 — MCA 1 finish**



Dimensions in millimetres



**Key**

- a Mould parting line
- b Sealing surface

NOTE The sealing surface is smooth and free of any defects and flash

**Figure 2 — Possible alternative constructions of the bore entrance to suit glass manufacturer**

Dimensions in millimetres  
Minimum through bore  $\varnothing 16,0$

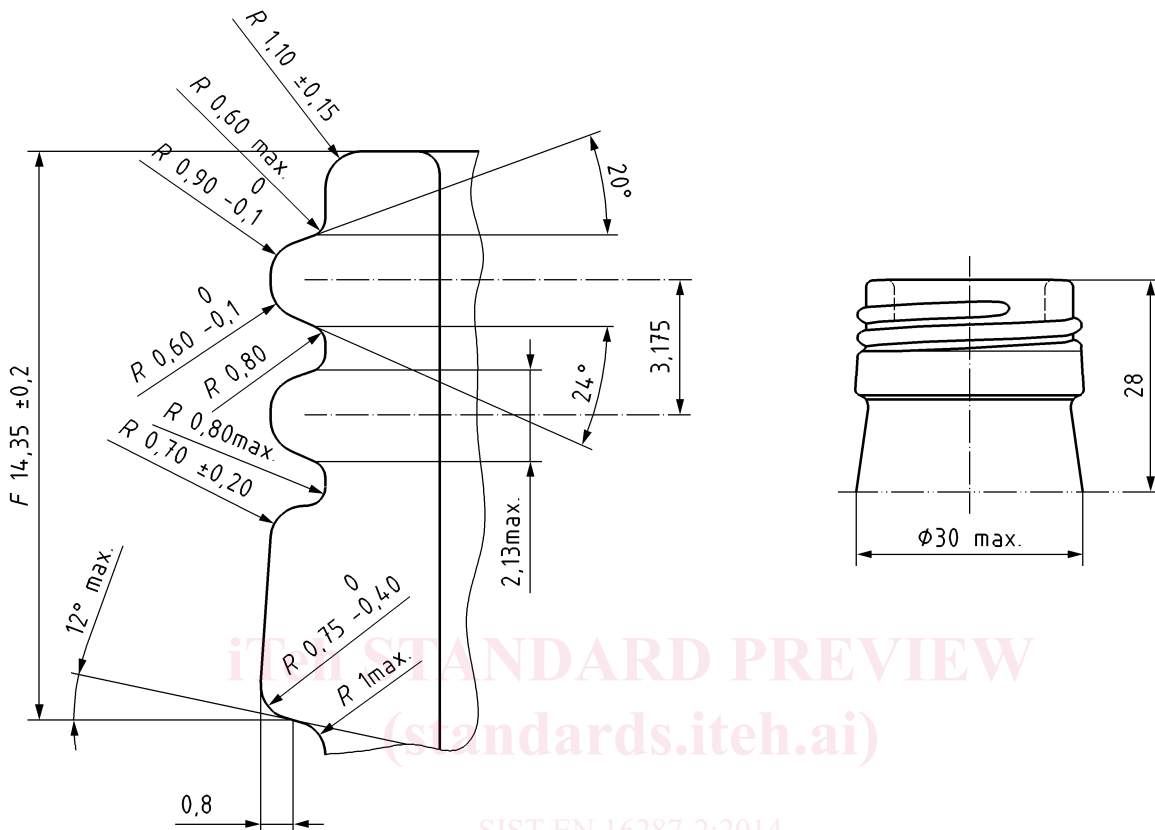
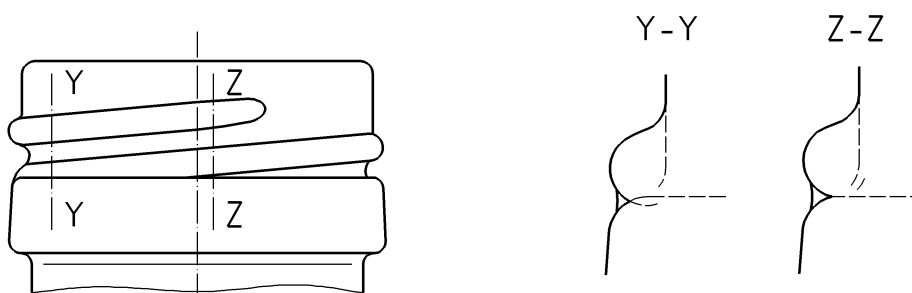


Figure 3 — Detail of the profile



NOTE Z-Z is the last full depth and width of thread. Beyond this point and Y-Y, the thread root is gradually increased to full thread diameter  $T$  in  $90^\circ$ .

Figure 4 — Run out of thread