



SLOVENSKI STANDARD
kSIST FprEN 16287-1:2013

01-september-2013

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

Glass packaging - Screw finishes for pressure capsules - Part 1: Returnable glass MCA 1 finish

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

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

Ta slovenski standard je istoveten z: FprEN 16287-1

ICS:

55.100 Steklenice. Lonci. Kozarci Bottles. Pots. Jars

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EUROPEAN STANDARD
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English Version

Glass packaging - Screw finishes for pressure capsules - Part 1: Returnable glass MCA 1 finish

Emballage en verre - Bagues à vis pour capsules à
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Verpackungen aus Glas - Schraubmündstücke für
Flaschen mit Innendruck - Teil 1: Mehrweg-MCA 1-(Glas-
)Mundstück

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (FprEN 16287-1:2013) 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 16287-1:2013 (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 returnable 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	β	TPI	\varnothing cutter
3,175 mm	2° 12'	8	12,5 mm
β = 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;

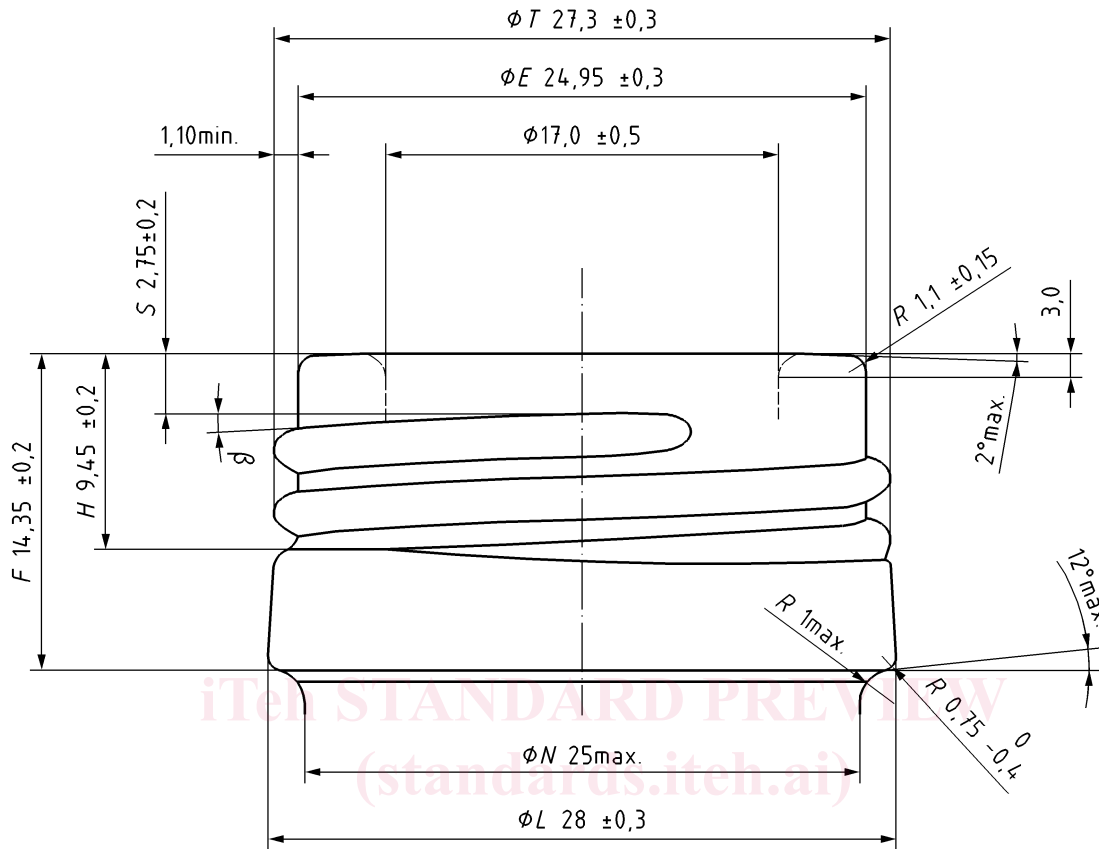
E is the wall diameter of threaded finish.

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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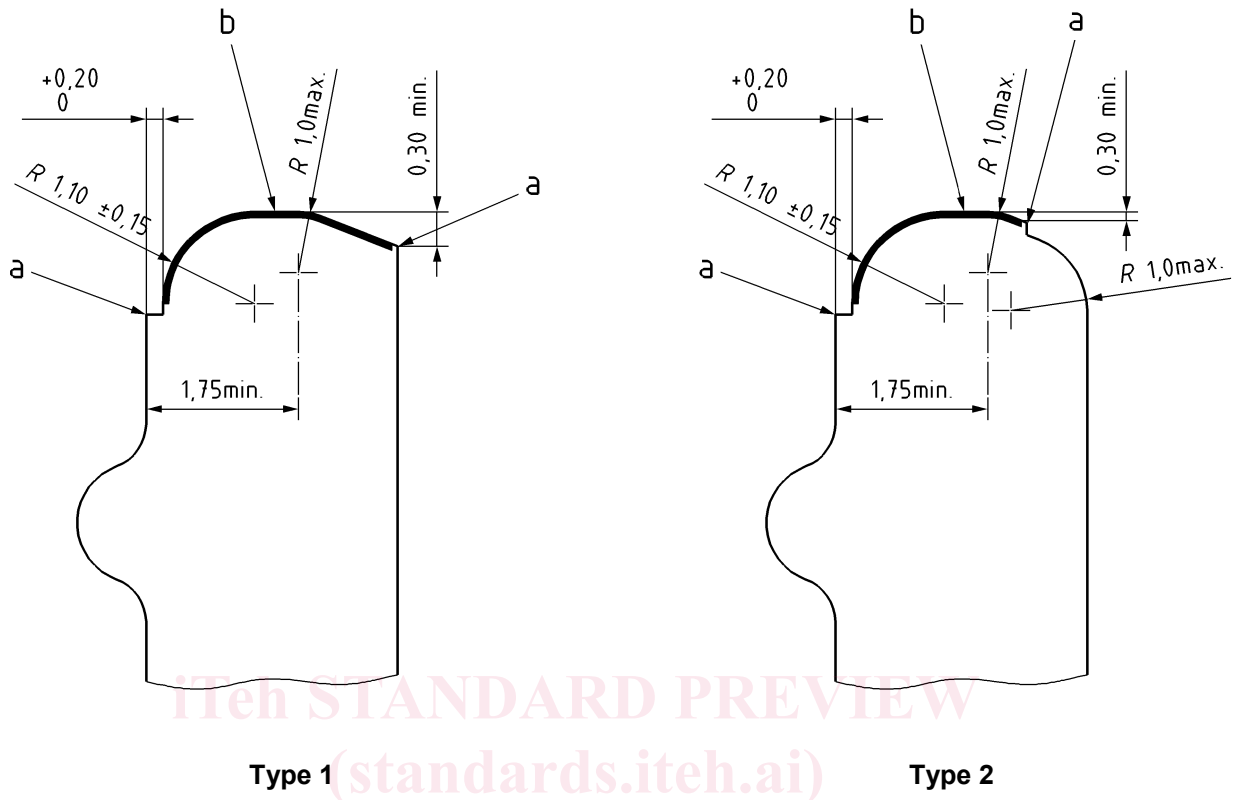
Key

- 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 ($17,0 \pm 0,5$) mm for a depth of 3 mm

Figure 1 — MCA 1 finish

Dimensions in millimetres



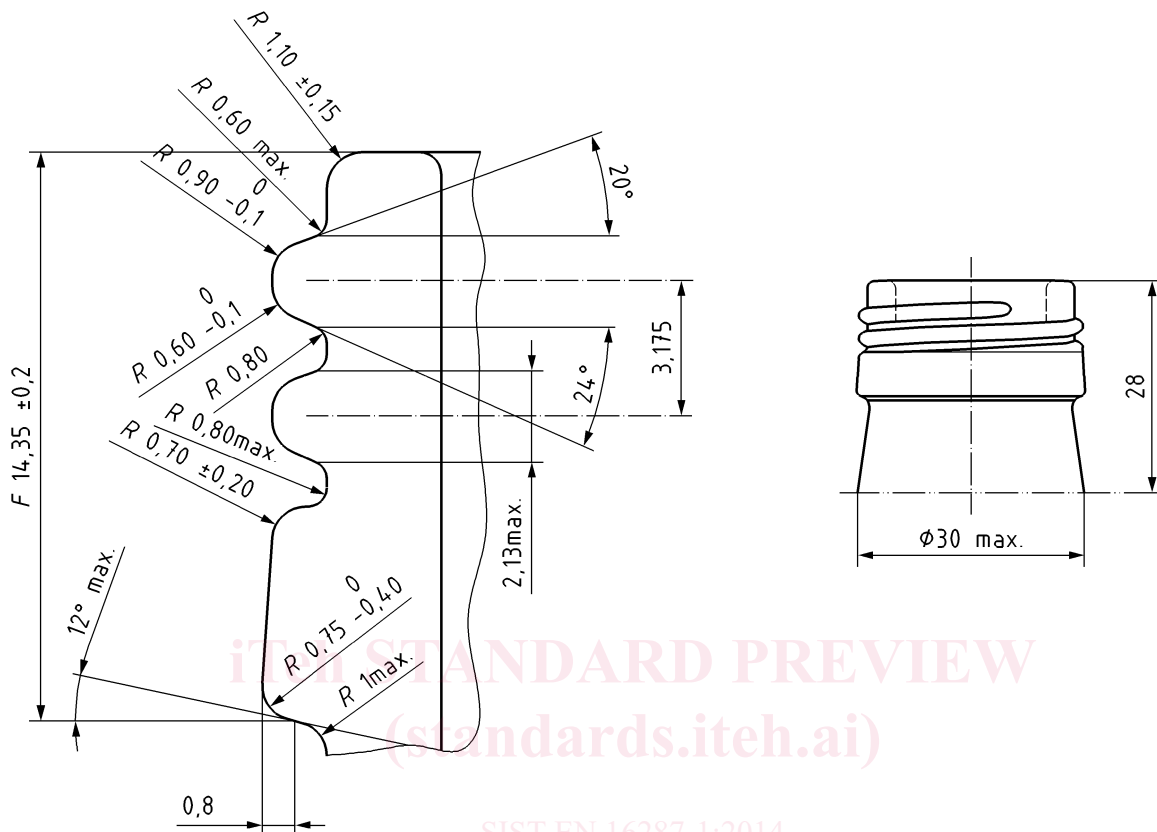
Key

- 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 $\varnothing 16,0$

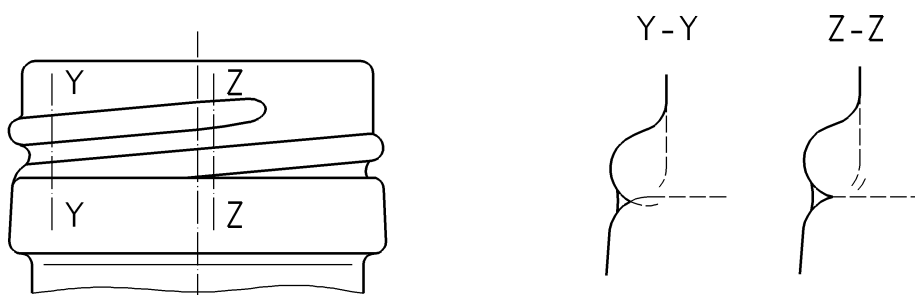


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Figure 3 — Detail of the profile



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° .

Figure 4 — Run out of thread