

BS EN 16592:2014



BSI Standards Publication

# Packaging — Rigid plastic containers — PET finish 29/25 (12,6)

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The UK participation in its preparation was entrusted to Technical Committee PKW/0/-/10, Packaging - Plastics.

A list of organizations represented on this committee can be obtained on request to its secretary.

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English Version

**Packaging - Rigid plastic containers - PET finish 29/25 (12,6)**Emballage - Récipients en plastique rigide - Bague PET  
29/25 (12,6)Verpackung - Formstabile Kunststoffbehälter - PET-  
Verschlussmundstück 29/25 (12,6)

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## **Foreword**

This document (EN 16592:2014) has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2015, and conflicting national standards shall be withdrawn at the latest by April 2015.

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## **Introduction**

This European Standard is based on CE.T.I.E. (International Technical Centre for Bottling and Packaging) data sheet GME 30.26 (2009) [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.

## 1 Scope

This European Standard specifies the design and dimensions of the 29 mm screw finish with three (3) thread starts for flat waters and non-carbonated beverages. This finish is designated PET finish 29/25 (12,6).

This finish can be used for aseptic filling and filling with nitrogen charge (internal overpressure inferior to 1 bar max). The dimension (12,6) is the height in millimetres from the top of finish to the bottom of the support ledge.

This finish is designed to accept a tamper evident plastic closure only. During first opening, the tamper evident band will separate from the closure shell and remain on a one way bottle neck or like bottles in the returnable market, the tamper evident band will tear but will remain connected to the closure shell.

## 2 Dimensions

**2.1** The design and dimensions of the finish shall be as shown in Figure 1. Dimensions are those of the preform.

**2.2** Dimensions of the 3 thread starts 120° apart:

— 180° of full thread per lead:

— R 6,25 mm thread run-in;

— R 6,25 mm thread run-out.

Lead: 6,5 mm (travel per turn).

**2.3** General tolerance for others radii:  $\pm 0,13$  mm.

**2.4** Weight on height 12,6 mm: 2,41 g (density = 1,335 g/cm<sup>3</sup>).

## 3 Requirements

This finish is a top, side and inside seal finish.

This finish shall be smooth and free of any defects that will contribute to leaks. Flash not to exceed 0,13 mm per side, and not to be continuous.

The diameter under the support ledge shown at 28,00 mm refers to the preform and should be at 28,50 maximum on the blown bottle.

On the blown bottle, the control diameter C shall be free of any defects up to 4 mm down for the internal bore and across the sealing surface of the finish.

Requirements for good closure application on finish:

— 0,13 mm max out-of-parallel sealing surface with neck support ledge is allowed.

— An offset or vertical mismatch of thread is not to exceed 0,10 mm at the mould seam.

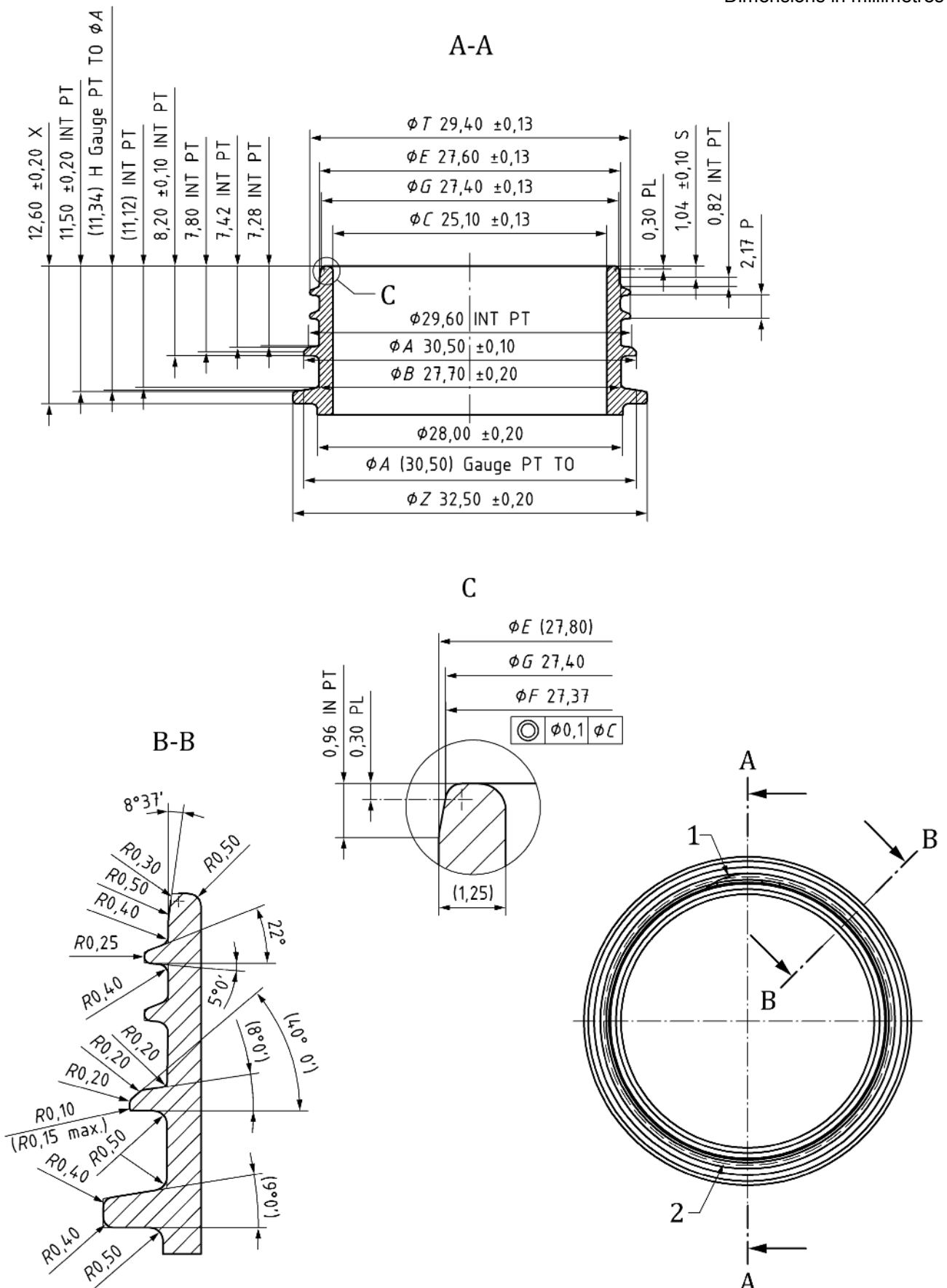
Variations in  $\varnothing E$  are to follow uniformly those of  $\varnothing T$ .

No overhang allowed at any point in 360° between Ø F and Ø G. A flash to 0,15 mm maximum step is allowable on one side only. Ø G does not exceed Ø E.

The success of the capping operation requires a correct adjustment and good conditions of maintenance of the capping equipment.



Dimensions in millimetres



**Key**

X	height from top of finish to bottom of support ledge	P	thread pitch
T	thread crest diameter	H	clearance height required for proper closure function
E	thread root diameter	Z	maximum diameter on support ledge
G	lower ring diameter	A	tamper evident bead diameter
C	control diameter at top of finish	B	tamper evident band recess diameter
S	height from top of finish to start of full depth of thread	PL	parting line
INT PT	intersection point	F	upper ring diameter
1	thread run-in	2	thread run-out

**Figure 1 – Design and dimensions of the finish**

## Bibliography

- [1] CE. T.I.E. data sheet GME 30.26 - *PET finish 29/25 (12,6)* - 2009<sup>1)</sup>

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<sup>1)</sup> Obtainable through *Centre Technique International de l'Emboutillage et du Conditionnement* (CE.T.I.E), 112- 114, rue La Boétie, 75008 Paris, France, [www.cetie.org](http://www.cetie.org), TP: 0033-1-42 65 26 45, TF: 0033-1-40 07 03 21.





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