



**SLOVENSKI STANDARD**  
**oSIST prEN 14854:2020**

**01-november-2020**

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**Steklena embalaža - Mere vratu za steklene posode za aerosole in razpršila**

Glass packaging - Dimensions of neck finishes for aerosol and spray glass containers

Aerosolverpackungen - Glasbehälter - Maße der Mündungen

Réipients pour aérosols - Réipients en verre - Dimensions de la bague du col

**Ta slovenski standard je istoveten z: prEN 14854**

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**ICS:**

55.130      Pločevinke za aerosole      Aerosol containers

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**en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 14854**

October 2020

ICS 55.130

Will supersede EN 14854:2005

English Version

## Glass packaging - Dimensions of neck finishes for aerosol and spray glass containers

Réipients pour aérosols - Réipients en verre -  
Dimensions de la bague du col

Aerosolverpackungen - Glasbehälter - Maße der  
Mündungen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 261.

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.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

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## European foreword

This document (prEN 14854:2020) 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 CEN Enquiry.

This document will supersede EN 14854:2005.

In comparison with the previous edition, the following technical modifications have been made:

- clear separation of the specifications for tubular glass from those for moulded glass;
- the height of the sealing bead on moulded glass only now has tolerances (and therefore the tolerance of the flange height is slightly increased);
- the dimension F has been recalculated to be more consistent with the finish geometry (driven by B max) for both moulded and tubular glass;
- addition of some complementary specifications for moulded glass: distance (G) from the lug to under flange, minimum height (H min) for a standard skirt and some angles and radii;
- introduction of a nomenclature of the specified dimensions.

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**prEN 14854:2020 (E)****1 Scope**

This document specifies dimensions of neck finishes for aerosol and spray glass containers, in order to guarantee tight sealing of valves or pumps with ferrules defined by EN 14849.

It applies to glass containers with a nominal diameter of the neck finish around 11 mm, 13 mm, 15 mm, 17 mm, 18 mm and 20 mm for both moulded and tubular glass neck finishes.

NOTE These neck finishes are commonly called FEA 11, 13, 15, 17, 18 and 20.

**2 Normative references**

There are no normative references in this document.

**3 Terms and definitions**

No terms and definitions are listed in this document.

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

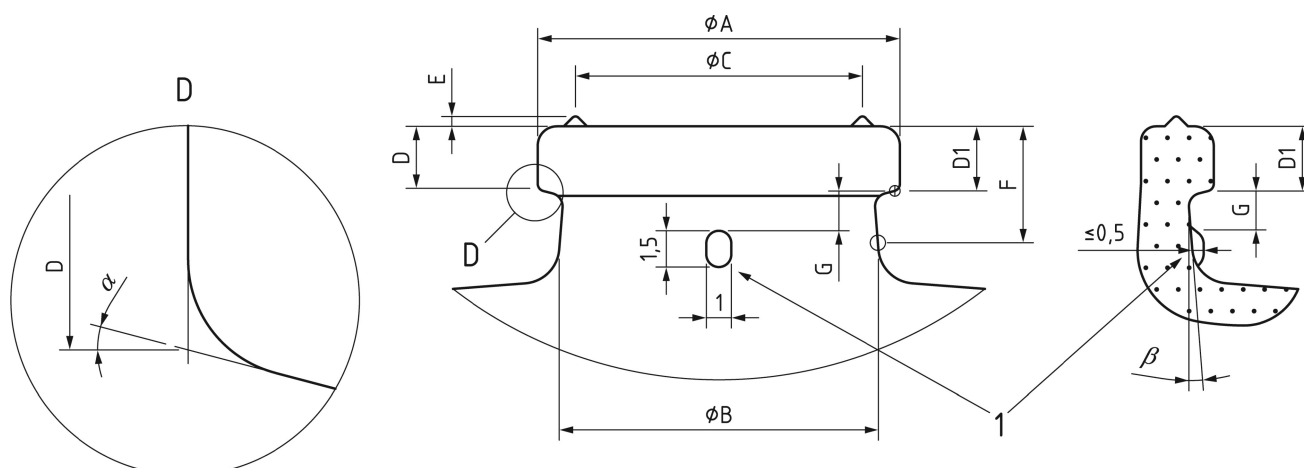
- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

**4 Moulded glass****4.1 Neck finish diameter 13 mm to 20 mm**

The dimensions of a moulded glass aerosol and spray glass container with a neck finish diameter of 13 mm to 20 mm shall conform to Figure 1 and Figure 2.

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Dimensions in millimetres



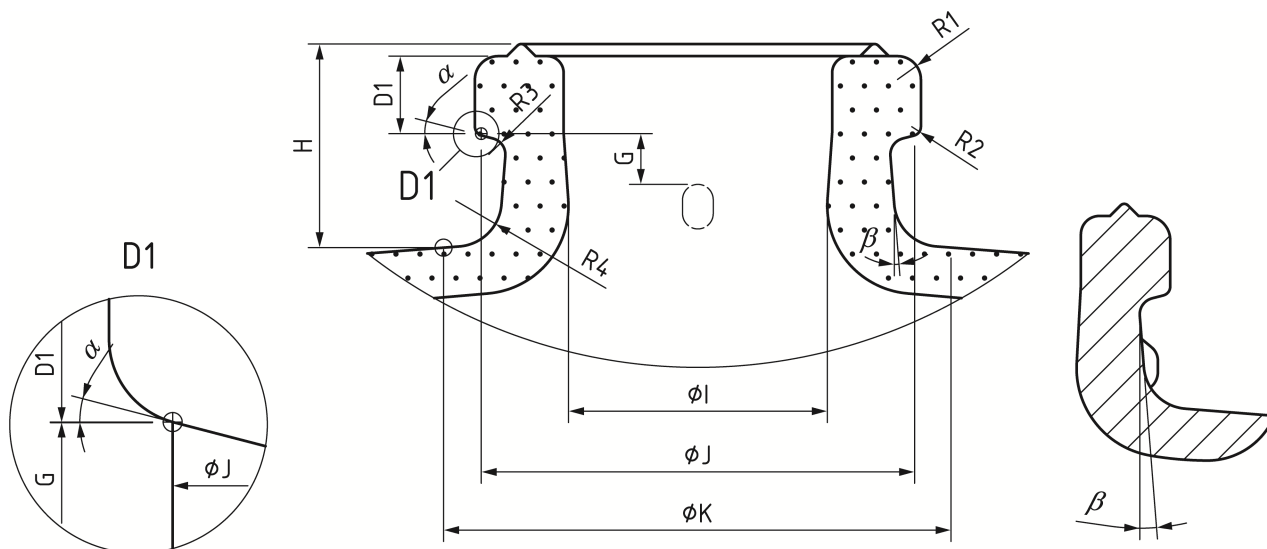
Name of the neck finish	$\varnothing A$	$\varnothing B$ max	$\varnothing C$	D	D1	E	F min	G min
13	13,3	12,3	11	2,5	2,50	0,3	4,7	1,65
15	15,3	13,3	12	2,6	2,60	0,4	4,8	1,65
17	16,8	14,0	12,8	3,5	3,50	0,4	5,7	1,95
18	18,5	16,9	14,5	2,6	2,60	0,4	4,8	1,95
20	20	17,8	15,5	3,2	3,20	0,4	5,4	1,95

**Key**

- 1 option: anti-rotation lug
- B  $\varnothing$  neck under flange finish at height F
- D construction dimension given on an indicative basis for mould production
- D1 controlled height of the flange finish measured to reference diameter under flange finish  $\varnothing J$
- F height defining zone for checking  $\varnothing B$  maxi; when an anti-rotation lug is present measurement to be made at  $90^\circ$  to the lug
- G minimum height of the lug, from under the flange finish to upper edge of the lug

**Figure 1 — A to G dimensions of neck finish for diameter 13 mm to 20 mm, moulded glass**

Dimensions in millimetres



Name of the neck finish	H min	I min	J	K	$\alpha$	$\beta$	R1 min/max	R2 max	R3 max	R4 min
13	7,1	7,8	12,7	15,18	15° +5° -10°	5°	0,3/0,7	0,5	0,6	1,5
15	6,9	8,8	14,7	17,25					0,8	
17	9,1	9	16,2	18,85					1	
18	9,4	10,2	17,9	20,48						
20	9,2	10,2	19,3	22,15						

**Key**

- H height at Ø K corresponding to a standard skirt  
This may be adjusted, if necessary, with a tolerance of  $\pm 0,3$  mm for particular designs.
- J reference Ø for measuring the flange finish height D1
- K reference Ø for measuring the overall neck height H
- $\beta$  neck cone angle  
optional use depending on agreement with glass manufacturer

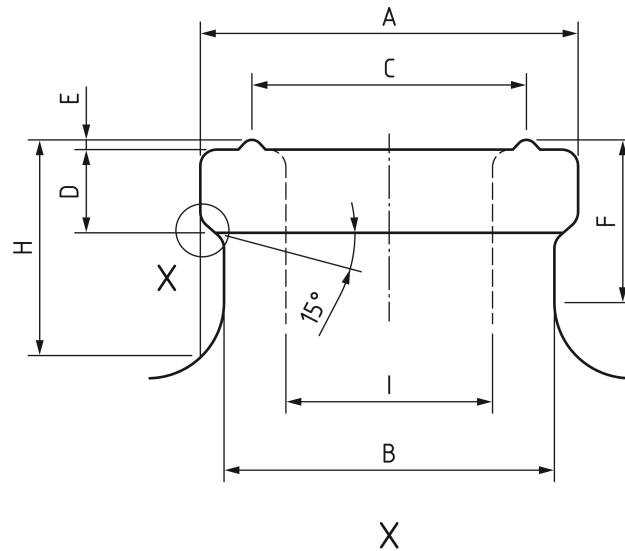
**Figure 2 — Complementary dimensions of neck finish for diameter 13 mm to 20 mm, moulded glass**



## 4.2 Neck finish diameter 11 mm

The dimensions of a moulded glass aerosol or spray glass container with a neck finish diameter of 11 mm shall conform to Figure 3.

Dimensions in millimetres



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Name of the neck finish	Ø A		Ø B max	Ø C	D		E	F min	H min	Ø I min
11	11,0	$\begin{matrix} 0 \\ -0,3 \end{matrix}$	9,7	8,0	2,5	$\pm 0,2$	0,3	5,0	6,2	6,1

### Key

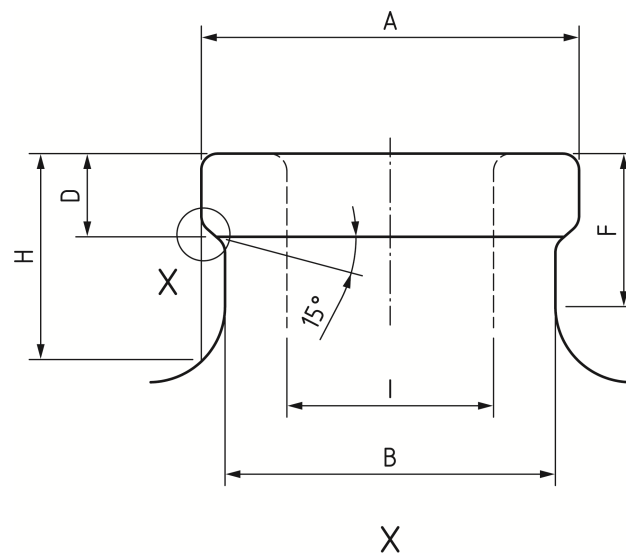
- B Ø neck under flange finish at height F
- D construction dimension given on an indicative basis for mould production
- F height defining zone for checking Ø B maxi; when an anti-rotation lug is present measurement to be made at 90° to the lug
- H height of the neck at flange finish diameter (11 mm). This may be adjusted, if necessary, with a tolerance of  $\pm 0,3$  mm for particular designs

**Figure 3 — Dimensions of neck finish diameter 11 mm, moulded glass**

## 5 Tubular glass

The dimensions of a tubular glass aerosol or spray glass container shall conform to Figure 4.

Dimensions in millimetres



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Name of the neck finish	$\varnothing A$	$\varnothing B$ max	$D$	$F$ min	$H$ min	$\varnothing I$ min
11	11,0	9,7	2,8	5,0	6,2	6,1
13	13,3	12,3	2,8	4,7	6,8	7,8
15	15,3	13,3	3,0	4,8	6,8	8,8
17	16,8	14,0	3,9	5,7	9,0	9,0
18	18,5	16,9	3,0	4,8	9,0	10,2
20	20	17,8	3,6	5,4	9,0	10,2

### Key

- B  $\varnothing$  neck under flange finish at height F
- D construction dimension given on an indicative basis for mould production
- H height of the neck at flange finish nominal diameter ( $\varnothing A$ )

Figure 4 — Dimensions of neck finish for diameter 11 mm to 20 mm, tubular glass