

English Version

Particulate air filters for general ventilation - Standardised dimensions

Filtres à air de ventilation générale pour l'élimination des particules - Dimensions normalisées

Partikel-Luftfilter für die allgemeine Raumluftechnik - Standardisierte Abmessungen

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Foreword

This document (EN 15805:2009) has been prepared by Technical Committee CEN/TC 195 “Air filters for general air cleaning”, the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by June 2010, and conflicting national standards shall be withdrawn at the latest by June 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This European Standard deals with the dimensions of air filters for general ventilation.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This European Standard specifies the header frame dimensions of air filters for general ventilation to be used in air handling units, air intake system filters for rotary machinery and other applications. This includes pocket filters, rigid (V type) filters and filters to which header frame dimensions are applicable.

2 Normative references

The following referenced documents are indispensable for the application 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.

EN 14799:2007, *Air filters for general air cleaning — Terminology*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 14799:2007 and the following apply.

3.1 face dimensions

width (W) and height (H) of the overall filter

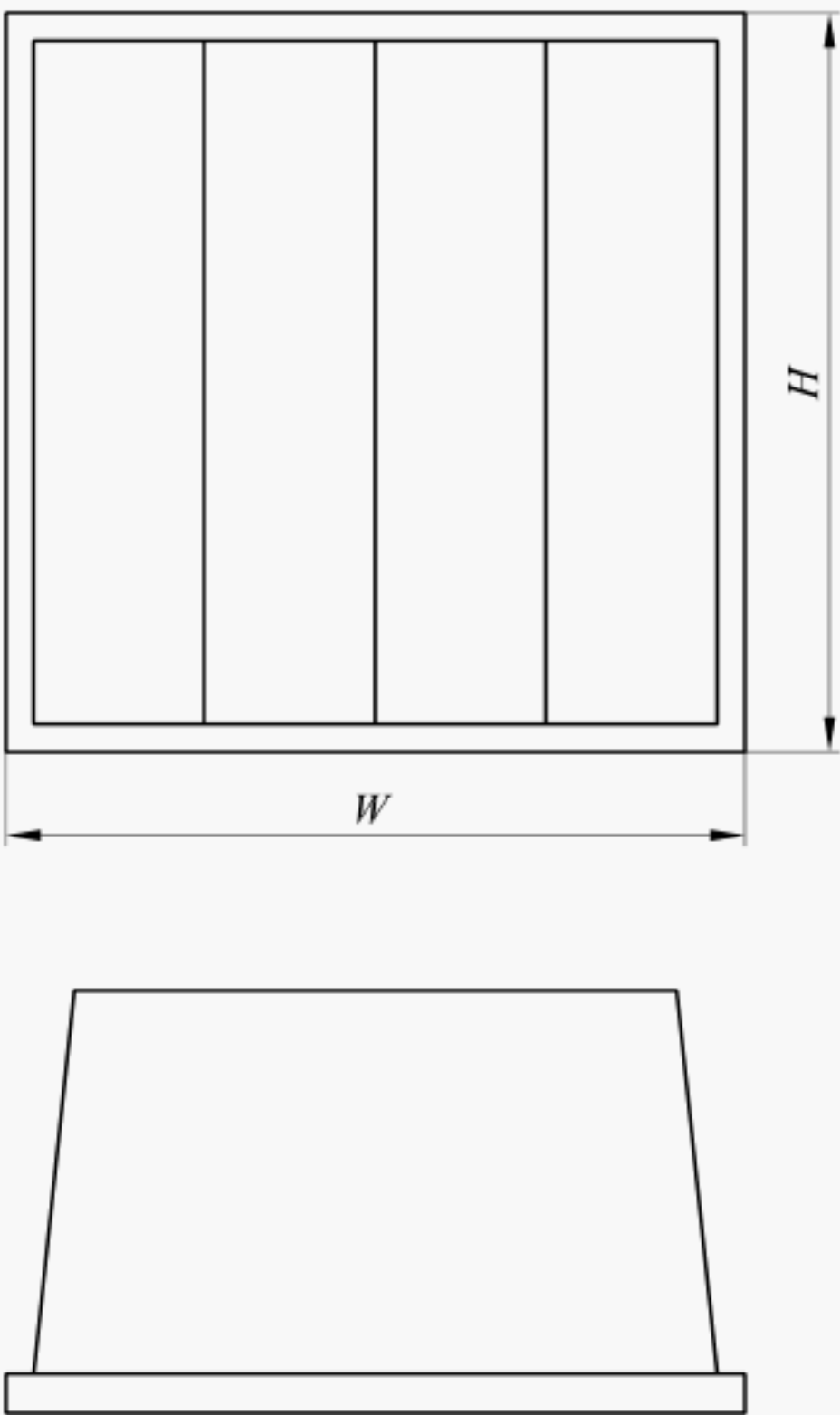
NOTE See Figure 1.

3.2 header frame

integral rigid frame of a filter enabling it to be fastened and sealed against the holding frame

3.3 holding frame

rigid structural frame, part of air handling system into which filters are fastened and sealed



Key
W width of the overall filter
H height of the overall filter

Figure 1 — Face dimensions of the air filter

4 Face dimensions

The face dimensions are indicated in Table 1. Permissible tolerances for holding frame dimensions are + 0 mm and - 2 mm. Permissible tolerances for filter face dimensions (header dimensions) are + 3 mm and - 2 mm.

Table 1 — Face dimensions

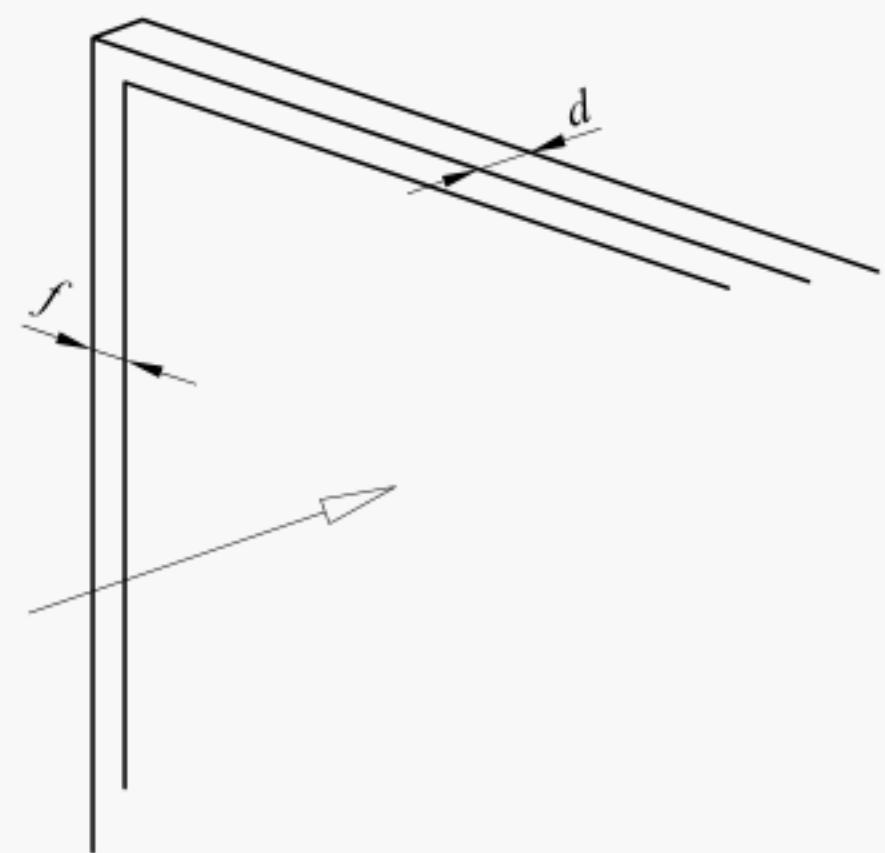
Holding frame dimensions (Nominal dimensions) ^a		Filter face dimensions (Header dimensions)	
Width mm	Height mm	Width mm	Height mm
610	610	592	592
508	610	490	592
305	610	287	592
610	305	592	287
508	305	490	287
305	305	287	287

^a Holding frame nominal dimensions are reported for information only. Actual holding frame dimensions shall be adapted to match the header dimensions defined in this standard.

The header frames dimensions shall be 18 mm smaller than the external dimensions of the corresponding holding frames.

For side access systems, the filter channel shall be designed to accommodate filter dimensions and tolerances defined in this standard.

The header frame depth (d) and width (f) are shown in Figure 2. The preferred depth shall be 25 mm. The alternative depth is 20 mm. The tolerance shall be $\pm 0,5$ mm. The width (f) shall be between 16 mm and 21 mm.



Key

- d header frame depth
- f header frame width

Figure 2 — Header frame depth and width

Bibliography

[1] EUROVENT, Recommendation 09, *Standard front dimensions of air filters*