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# International Standard



# 8027

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## Road vehicles — Air filter elements for passenger cars — Types P and R — Dimensions

*Véhicules routiers — Éléments de filtre à air pour voitures particulières — Types P et R — Dimensions*

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Descriptors : road vehicles, private cars, air filters, dimensions, designation.

## Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8027 was prepared by Technical Committee ISO/TC 22, *Road vehicles*.

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# Road vehicles — Air filter elements for passenger cars — Types P and R — Dimensions

## 1 Scope and field of application

This International Standard specifies the essential dimensional characteristics necessary for interchangeability of filter elements for air filters generally used in passenger cars (medium filter paper).

The selected sizes in tables 1 and 2 are based on elements currently on the market.

This International Standard may be used for other air filter applications where no specific standard exists.

## 2 References

ISO 7312, *Road vehicles — Air filter connections — Types A and B.*

ISO 7750/1, *Road vehicles — Air filter elements for commercial vehicles — Dimensions — Part 1: Types A and B.*

3 Dimensions

3.1 Type P – Panel type

See figure 1 and table 1.

Dimensions in millimetres

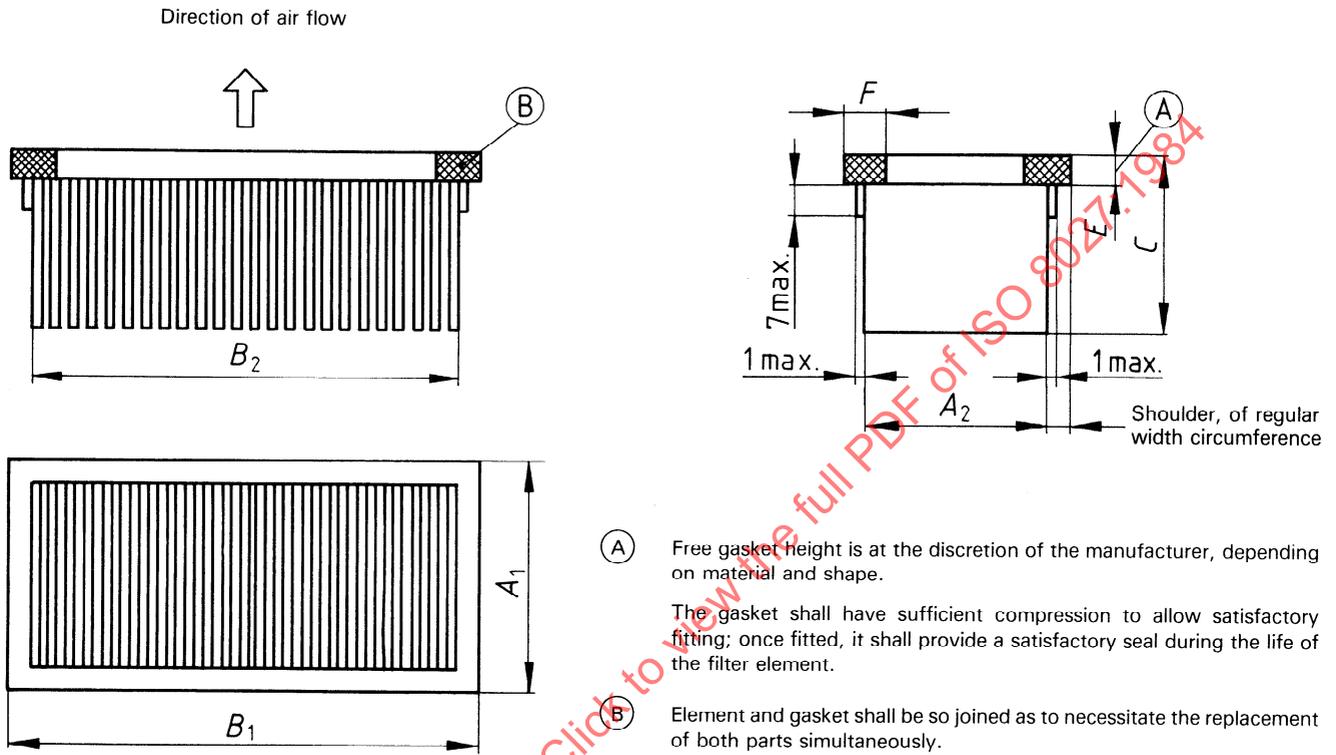


Figure 1 – Type P

Table 1 – Type P

Dimensions in millimetres

| No. | $A_1^{1)}$ |      | $A_2$<br>max. | $B_1^{1)}$ |      | $B_2$<br>max. | $C$<br>max. | $E^{1)}$   $F^{1)}$<br>on circumference |             |
|-----|------------|------|---------------|------------|------|---------------|-------------|---|-------------|
|     | max.       | min. |               | max.       | min. |               |             | max.                                    | max.        |
| 1   | 114        | 113  | 103           | 346        | 345  | 335           | 58          | 8,3<br>max.                             | 9,4<br>max. |
| 2   | 114        | 113  | 103           | 380        | 379  | 369           | 58          |   |             |
| 3   | 133        | 132  | 122           | 224        | 223  | 213           | 42          |   |             |
| 4   | 133        | 132  | 122           | 272        | 271  | 261           | 42          |   |             |
| 5   | 133        | 132  | 122           | 334        | 333  | 323           | 38          |   |             |
| 6   | 133        | 132  | 122           | 334        | 333  | 323           | 42          |   |             |
| 7   | 133        | 132  | 122           | 334        | 333  | 323           | 58          |   |             |
| 8   | 183        | 182  | 172           | 307        | 306  | 296           | 42          | 7,5<br>min.                             | 9,0<br>min. |
| 9   | 183        | 182  | 172           | 329        | 328  | 318           | 46          |   |             |
| 10  | 183        | 182  | 172           | 349        | 348  | 338           | 46          |   |             |
| 11  | 183        | 182  | 172           | 380        | 379  | 369           | 42          |   |             |
| 12  | 212        | 211  | 201           | 212        | 211  | 201           | 58          |   |             |
| 13  | 212        | 211  | 201           | 253        | 252  | 242           | 46          |   |             |

1) Compressed dimensions : maximum and minimum dimensions of the space in which the filter element is to be inserted.

3.2 Type R – Circular type

See figure 2 and table 2.

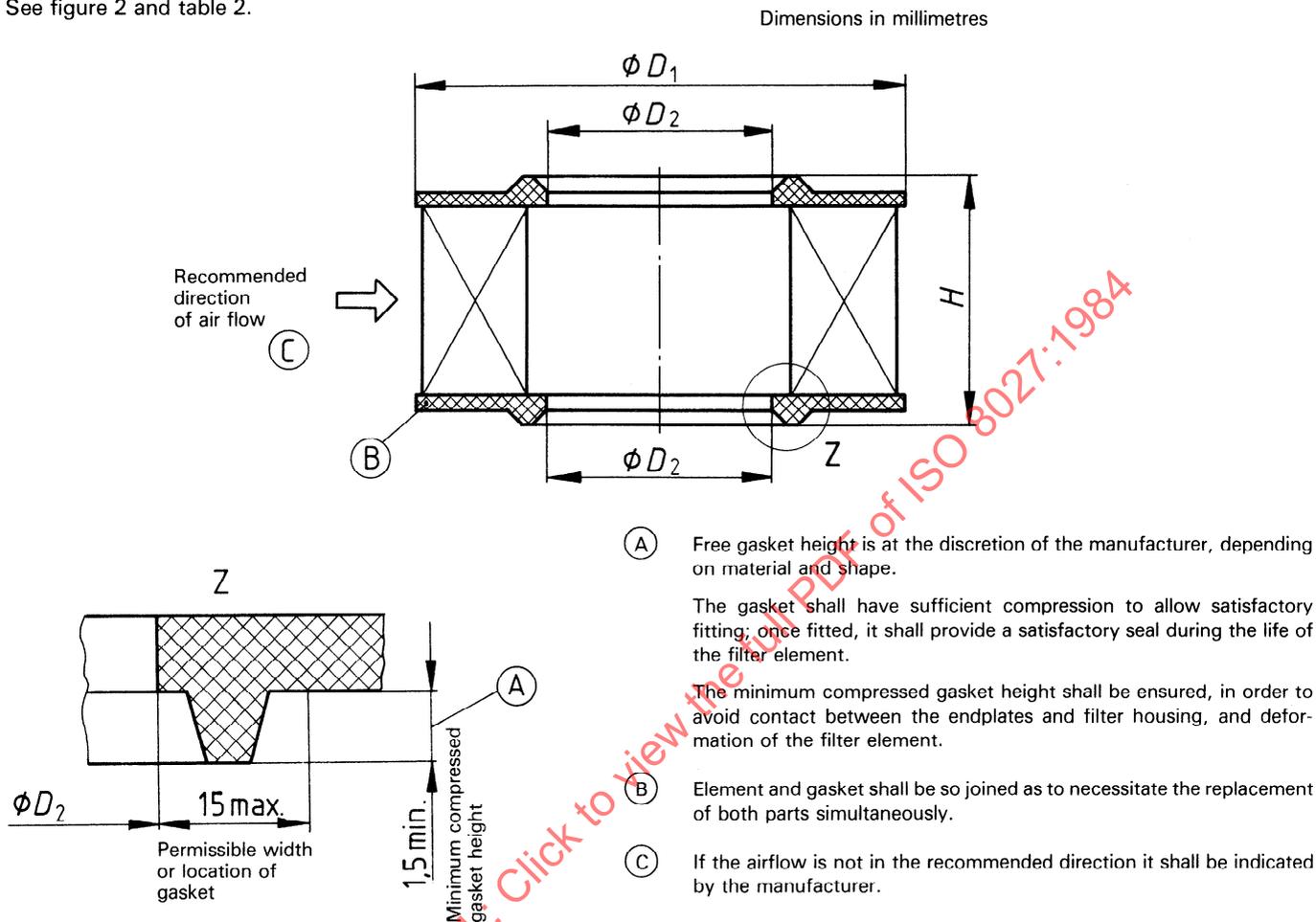


Figure 2 – Type R

Table 2 – Type R

Dimensions in millimetres

| No. | $D_1$<br>max. | $D_2$<br>< 200: $\begin{matrix} +2 \\ 0 \end{matrix}$<br>> 200: $\begin{matrix} +3 \\ 0 \end{matrix}$ | $H^{1)}$ |      |
|-----|---------------|---|----------|------|
|     |               |   | max.     | min. |
| 1   | 170           | 106   | 63       | 61   |
| 2   | 170           | 106   | 98       | 96   |
| 3   | 176           | 120   | 58       | 56   |
| 4   | 176           | 130   | 74       | 72   |
| 5   | 206           | 155   | 45       | 43   |
| 6   | 206           | 144   | 51       | 49   |
| 7   | 206           | 150   | 56       | 54   |
| 8   | 206           | 141   | 78       | 76   |
| 9   | 206           | 150   | 98       | 96   |
| 10  | 216           | 165   | 60       | 58   |
| 11  | 216           | 160   | 72       | 70   |
| 12  | 225           | 175   | 45       | 43   |
| 13  | 235           | 185   | 50       | 48   |
| 14  | 245           | 175   | 46       | 44   |
| 15  | 245           | 175   | 54       | 52   |
| 16  | 245           | 187   | 60       | 58   |
| 17  | 245           | 187   | 98       | 96   |
| 18  | 256           | 205   | 50       | 48   |
| 19  | 256           | 186   | 69       | 67   |
| 20  | 256           | 186   | 81       | 79   |
| 21  | 265           | 208   | 56       | 54   |
| 22  | 265           | 208   | 71       | 69   |
| 23  | 273           | 202   | 51       | 49   |
| 24  | 278           | 221   | 60       | 58   |
| 25  | 298           | 240   | 52       | 50   |
| 26  | 296           | 209   | 64       | 62   |
| 27  | 310           | 238   | 60       | 58   |
| 28  | 310           | 216   | 81       | 79   |

1) Compressed height: maximum and minimum dimensions of the space in which the filter element is to be inserted.

#### 4 Designation

Example for the designation of a filter element of panel type (type P), with dimensions  $A_1$  max. = 133 mm,  $B_1$  max. = 334 mm and  $C$  max. = 42 mm:

**Filter element ISO 8027 - P 133 × 334 × 42**

Example for the designation of a filter element of circular type (type R), with dimensions  $D_1$  max. = 245 mm,  $D_2$  = 175 mm and  $H$  max. = 46 mm:

**Filter element ISO 8027 - R 245 × 175 × 46**

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