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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*

First edition — 1984-11-01

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[ISO 8027:1984](https://standards.iteh.ai/catalog/standards/sist/424f955e-5638-48f4-8d30-695d06176e1c/iso-8027-1984)

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

## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

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

## iTeh STANDARD PREVIEW (standards.iteh.ai)

### 1 Scope and field of application

[ISO 8027:1984](#)

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

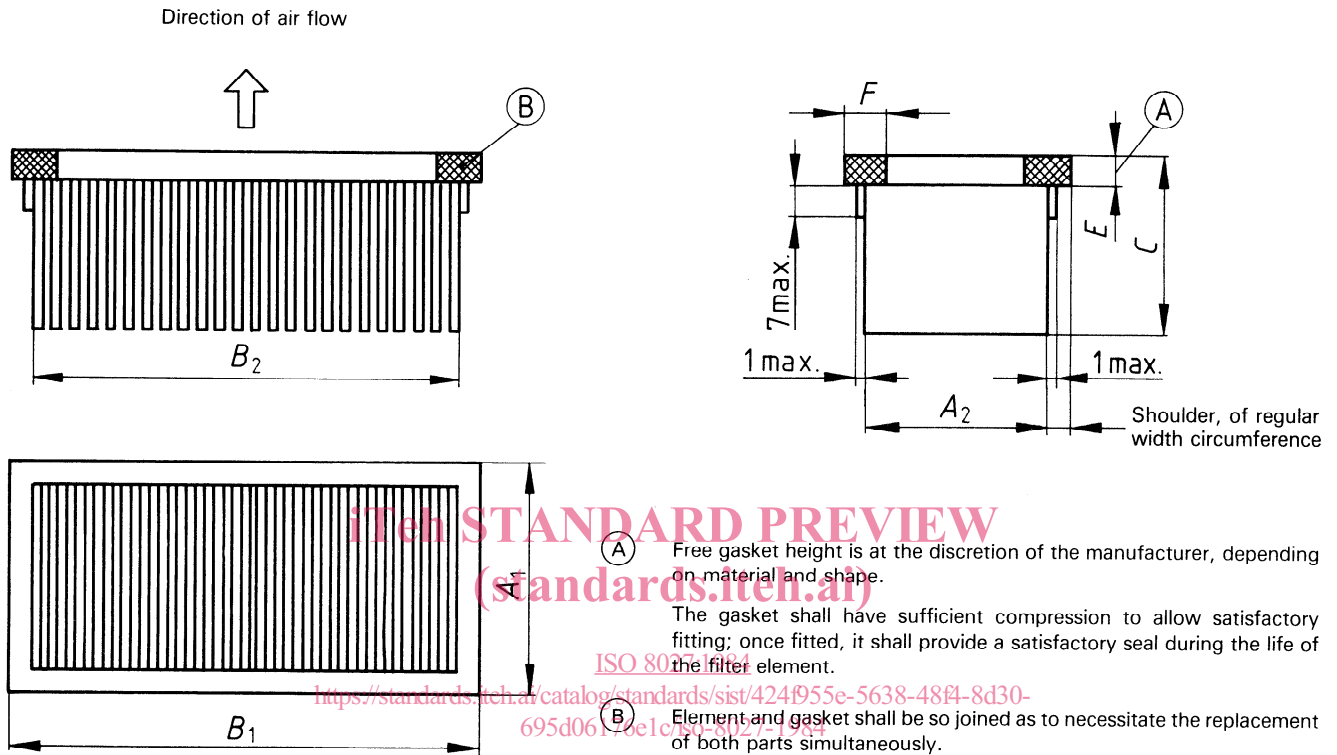


Figure 1 – Type P

Table 1 – Type P

Dimensions in millimetres

No.	$A_1^{1)}$		$A_2$ max.	$B_1^{1)}$		$B_2$ max.	$C$ max.	$E^{1)}$   $F^{1)}$ on circumference	
	max.	min.		max.	min.			max.	min.
1	114	113	103	346	345	335	58	8,3 max.	9,4 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 min.	9,0 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.

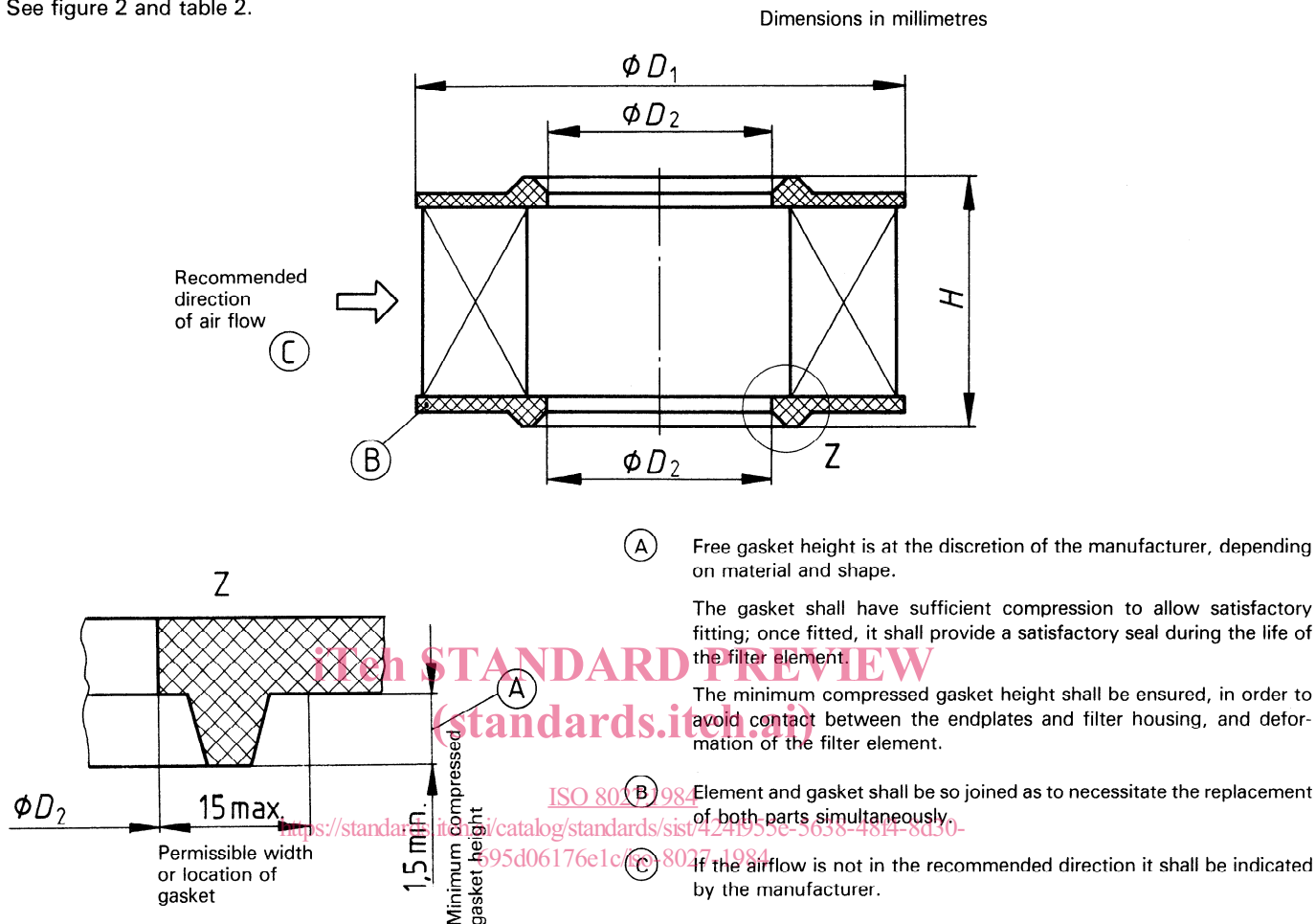


Figure 2 – Type R

Table 2 – Type R

Dimensions in millimetres

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