INTERNATIONAL STANDARD

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Textile machinery and accessories — Profile reeds for air jet weaving machines — Dimensions

Matériel pour l'industrie textile et accessoires — Peignes profilés pour machines à tisser à insertion de la trame par jet d'air — Dimensions

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Foreword

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ISO 15228 was prepared by Technical Committee ISO/TC 72, *Textile machinery and machinery for dry-cleaning and industrial laundering*, Subcommittee SC 3, *Machinery for fabric manufacturing including preparatory machinery and accessories*.

Textile machinery and accessories — Profile reeds for air jet weaving machines — Dimensions

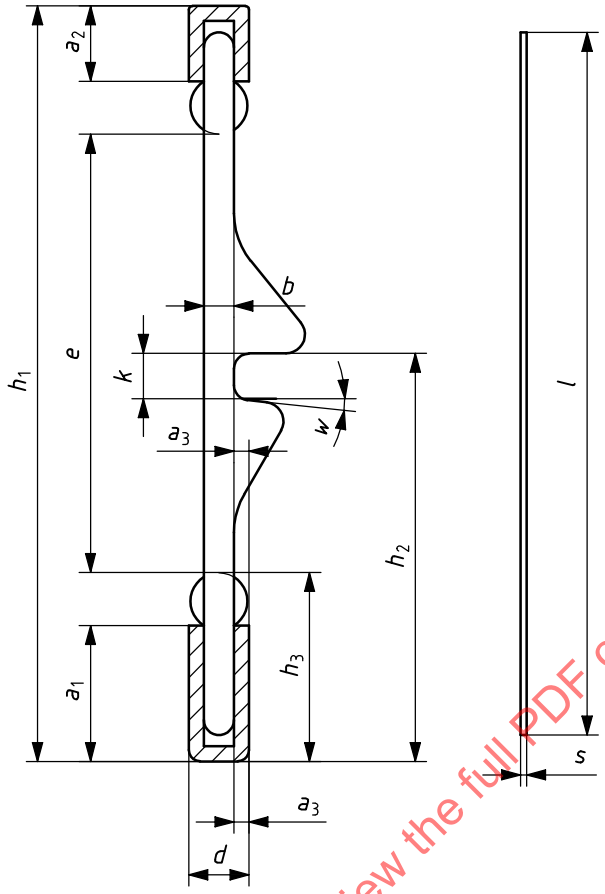
1 Scope

This International Standard specifies the dimensions and designation for reeds used for air jet weaving machines.

2 Dimensions

The reed need not be identical to Figure 1.

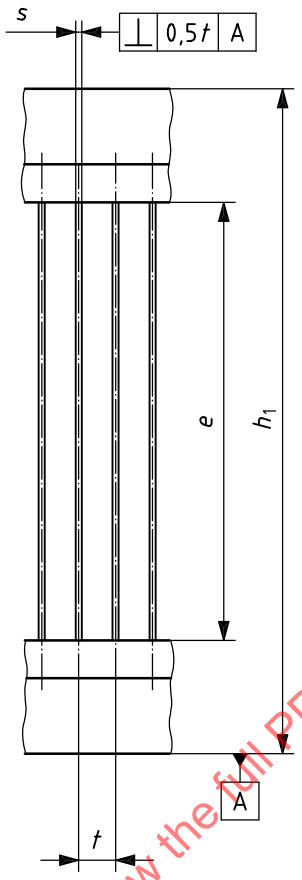
The indicated dimensions given in Table 1 and the tolerance of perpendicularity of dents according to Figure 2 shall be met.



Key

a_1	height of bottom profile
a_2	height of top profile
a_3	distance from front edge of bottom profile to base of air channel
b	width of dents
d	thickness of bottom profile
e	inner height
h_1	total height
h_2	distance from bottom of bound to top of air channel
h_3	height of bottom profile and spring binding
k / w	width of air channel to inclination angle of bottom nose
l	length of dents
s	thickness of dents
t	distance of dents
w	inclination angle of bottom nose

Figure 1 — Reed



Key

e inner height of reed
h_1 total height of reed
s thickness of dents
t distance of dents

Figure 2 — Tolerance of perpendicularity of dents in relation to base of reed

Table 1 — Dimensions and tolerances of reeds

Dimensions in millimetres

a_1 ± 0,2	a_2 ± 0,2	a_3 ± 0,1	b ± 0,03	d ± 0,2	h_1	h_2 ± 0,1	h_3 ± 1	k/w ± 0,03/± 0°0′15″	s	
									Nominal dimension [b]	**Tolerance** [a]
18, 20, 22	10, 12, 16	2	4	8	100 to 122	51, 54, 56, 57	a_1 + 7	5,5/12°, 6/6°, 6/0°	0,12 0,14 0,16 0,18 0,20	± 0,005
									0,22 0,24 0,26 0,28 0,31 0,34	± 0,007
									0,37 0,40 0,45	± 0,01
									0,50 0,60 0,70 0,80	± 0,015
Shape and dimensions of end-posts shall be considered.										

[a] Allowed tolerances for the dents; smaller tolerances of the dents may be necessary within a reed.

[b] Nominal dimensions may differ, if required.

3 Designation

The designation shall include reference to this International Standard, followed by the value of dimensions a_1, a_2, h_1, h_2, k/w and s, in millimetres, as specified in Table 1.

EXAMPLE Designation of a reed for air jet weaving machines with a_1 = 18 mm, a_2 = 10 mm, h_1 = 122 mm, h_2 = 56 mm k/w = 5,5 mm/12°, and s = 0,22 mm:

Reed ISO 15228 - 18 - 10 - 122 - 56 - 5,5/12 - 0,22