
**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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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

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*.

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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

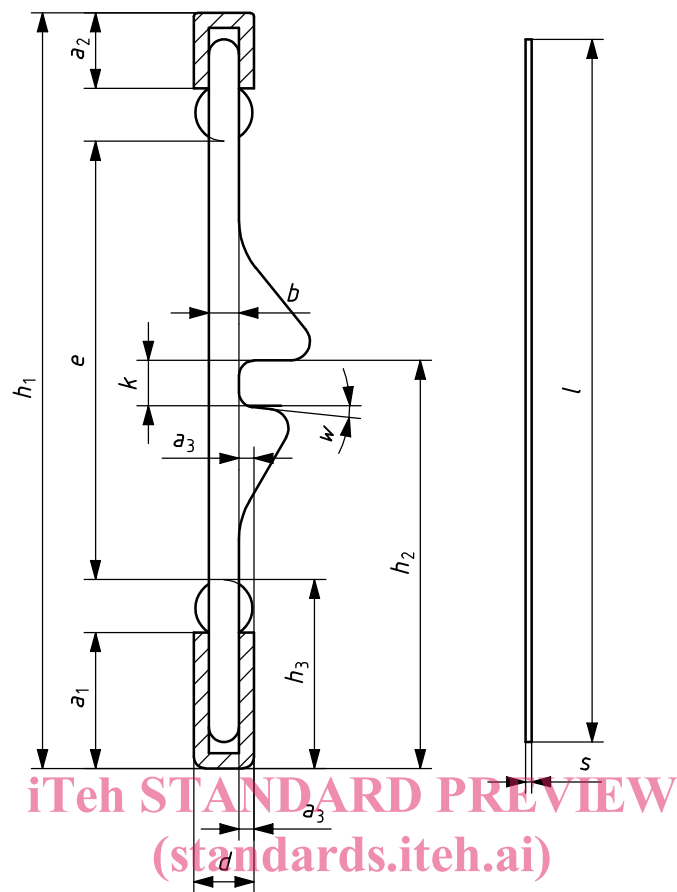
The reed need not be identical to Figure 1.

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

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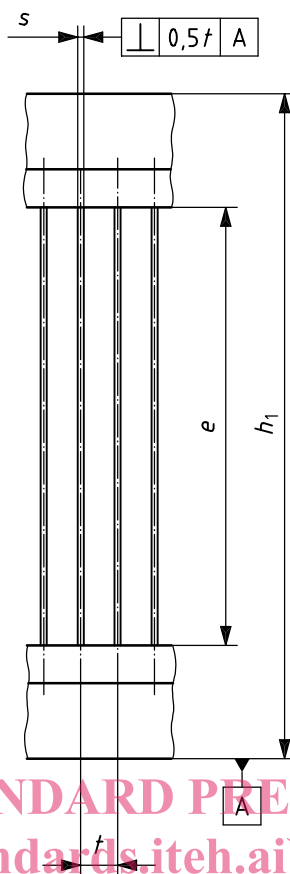
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Key	
a_1	height of bottom profile
a_2	height of top profile
a_3	distance from front edge of bottom profile to base of air channel
b	width of dents
d	thickness of bottom profile
e	inner height
h_1	total height
h_2	distance from bottom of bound to top 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



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Key

e inner height of reed

h_1 total height of reed

s thickness of dents

t distance of dents

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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	a_2	a_3	b	d	h_1	h_2	h_3	k/w	s	
$\pm 0,2$	$\pm 0,2$	$\pm 0,1$	$\pm 0,03$	$\pm 0,2$		$\pm 0,1$	± 1	$\pm 0,03/\pm 0^{\circ}0'15''$	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	$\pm 0,005$
									0,22 0,24 0,26 0,28 0,31 0,34	$\pm 0,007$
									0,37 0,40 0,45	$\pm 0,01$
									0,50 0,60 0,70 0,80	$\pm 0,015$
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.										

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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

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