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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

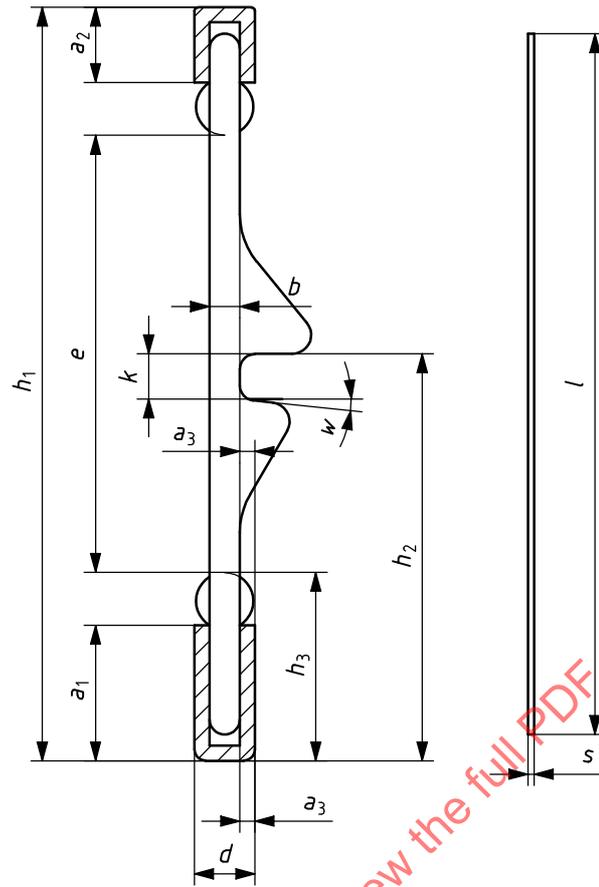
This International Standard specifies the dimensions and designation for reeds used for air jet weaving machines.

## 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.

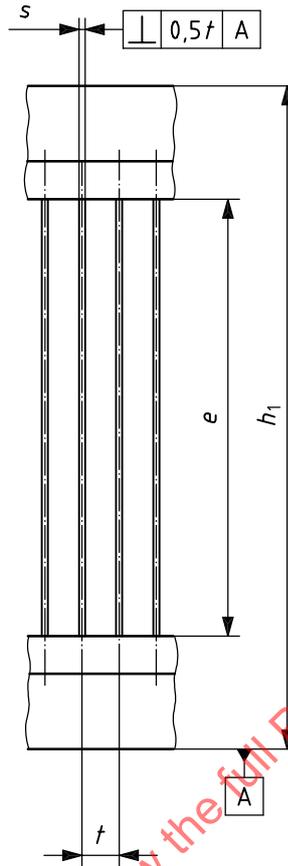
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**Key**

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

$a_1$	$a_2$	$a_3$	$b$	$d$	$h_1$	$h_2$	$h_3$	$k/w$	$s$	
									Nominal dimension <sup>b</sup>	Tolerance <sup>a</sup>
$\pm 0,2$	$\pm 0,2$	$\pm 0,1$	$\pm 0,03$	$\pm 0,2$		$\pm 0,1$	$\pm 1$	$\pm 0,03/\pm 0^\circ 0' 15''$		
18,	10,				100	51,		5,5/12°,	0,12 0,14 0,16 0,18 0,20	$\pm 0,005$
20,	12,	2	4	8	to	54,		6/6°,	0,22 0,24 0,26 0,28	$\pm 0,007$
22	16				122	56,	$a_1 + 7$	6/0°	0,31 0,34	
						57			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.										
<sup>a</sup> Allowed tolerances for the dents; smaller tolerances of the dents may be necessary within a reed.										
<sup>b</sup> 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**