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**Coated abrasives — Plain sheets with holes  
for dust extraction**

*Produits abrasifs appliqués — Feuilles simples avec trous pour extraction  
de la poussière*

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ISO 21949:2001

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## 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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 International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 21949 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee SC 5, *Grinding wheels and abrasives*.

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# Coated abrasives — Plain sheets with holes for dust extraction

## 1 Scope

This International Standard specifies the nominal dimensions, tolerances and designation of the active surface of plain sheets with holes for dust extraction. Extra length has to be taken into account in this International Standard.

Plain sheets with holes for dust extraction in accordance with this International Standard are intended for use on sanders with dust extraction.

## 2 Normative reference

The following normative document contains provisions which, through reference in this text, constitute provisions of this International Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. However, parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent edition of the normative document indicated below. For undated references, the latest edition of the normative document referred to applies. Members of ISO and IEC maintain registers of currently valid International Standards.

ISO 554:1976, *Standard atmospheres for conditioning and/or testing — Specifications.*

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## 3 Requirements

### 3.1 Types and dimensions

See Figures 1 to 7 and Table 1.

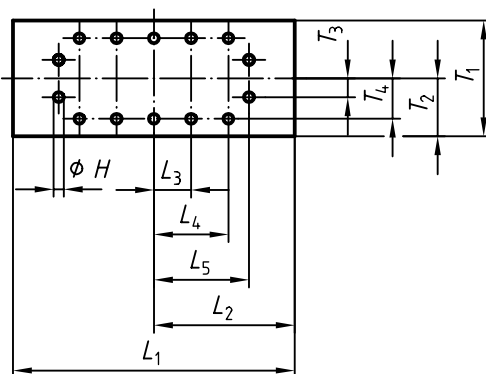


Figure 1 — Type A sheet

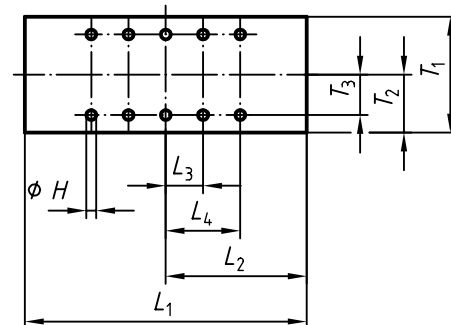


Figure 2 — Type B sheet

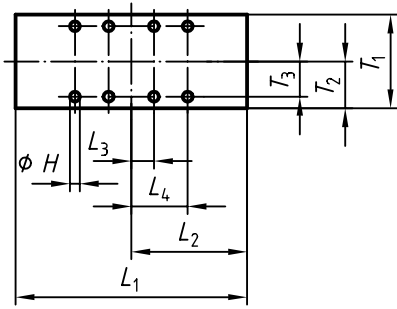


Figure 3 — Type C sheet

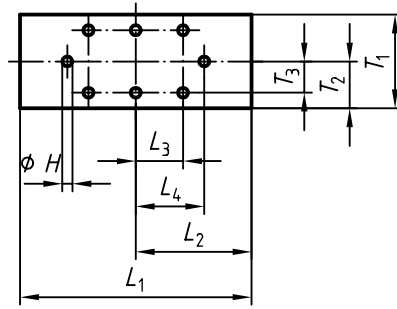


Figure 4 — Type D sheet

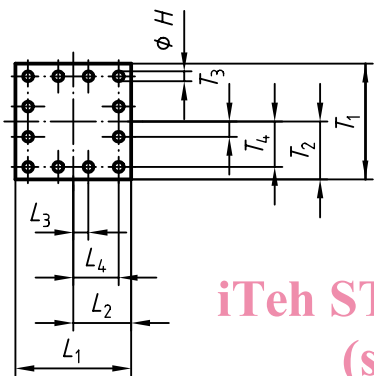


Figure 5 — Type E sheet

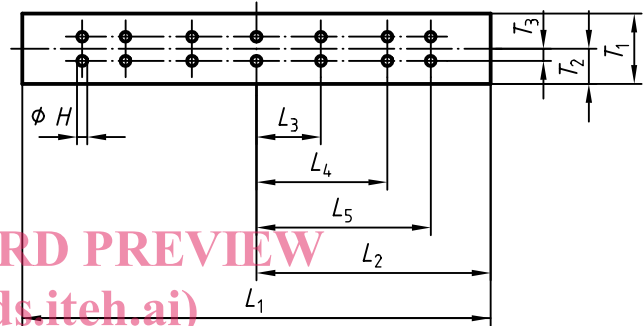


Figure 6 — Type F sheet

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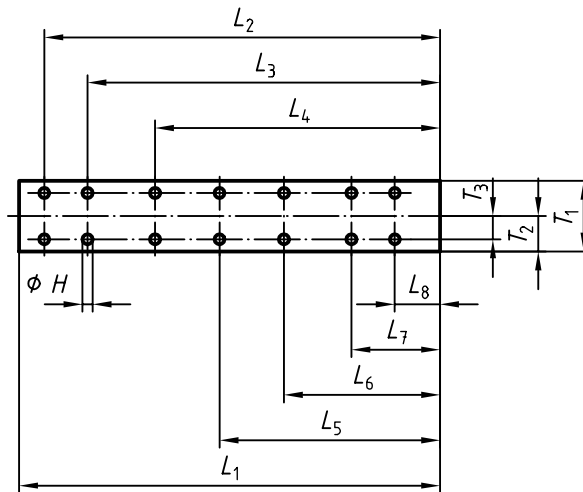


Figure 7 — Type G sheet

Table 1 — Dimensions

Dimensions in millimetres

Type	Size $T_1 \times L_1$ $\pm 1,5$		$L_2$ $\pm 0,5$	$L_3$ $\pm 0,5$	$L_4$ $\pm 0,5$	$L_5$ $\pm 0,5$	$L_6$ $\pm 0,5$	$L_7$ $\pm 0,5$	$L_8$ $\pm 0,5$	$H$ $\pm 0,5$	$T_2$ $\pm 0,5$	$T_3$ $\pm 0,5$	$T_4$ $\pm 0,5$	Number of holes
	$T_1$	$L_1$												
A	115	280	140	37	74	94,5	—	—	—	10	57,5	18,5	40	14
	115	230	115											
B	115	280	140	37	74	—	—	—	—	10	57,5	40	—	10
	115	225	112,5											
C	93	230	115	22,5	56	—	—	—	—	10	46,5	35	—	8
	93	186	93											
	80	166	83	19	48	—	—	—	—	40	30	—		
	80	130	65											
	70	198	99										29	
D	93	230	115	47	68	—	—	—	—	10	46,5	31	—	8
	93	186	93											
	115	280	140	21	63	90	—	—	—	—	57,5	38	—	10
E	115	115	57,5	15	45	—	—	—	—	10	57,5	15	45	12
F	70	465	232,5	64	130	173	—	—	—	10	35	12	—	14
G	70	127	100	74	48	22	—	—	—	10	35	24	—	8
	81	153	106	81	56	31	—	—	—		40,5	25,5	—	8
	70	418	393	350	283	219	155	88	45		35	23	—	14

### 3.2 Test conditions

The limit deviations given in Table 1 are valid under the following conditions:

- Temperature:  $20\text{ °C} \pm 2\text{ °C}$
  - Relative humidity:  $65\% \pm 5\%$
- } in accordance with ISO 554

When plain sheets are tested they shall be stored for at least 24 h under the above conditions.

### 4 Designation

A plain sheet conforming to this International Standard shall be designated by

- a) "Plain sheet";
- b) reference to this International Standard, i.e. ISO 21949;
- c) type A, B, C, D, E, F or G;
- d) dimensions  $T_1 \times L_1$  (size), in millimetres.

## ISO 21949:2001(E)

EXAMPLE A plain sheet of Type A with a dimensions  $T_1 = 115$  mm and  $L_1 = 280$  mm is designated as follows:

**Plain sheet ISO 21949 A 115 × 280**

### 5 Marking

Plain sheets with holes for dust extraction shall be marked with

- a) grain size;
- b) manufacturer, supplier, importer or their registered trademark.

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## Bibliography

- [1] ISO 6344-1:1998, *Coated abrasives — Grain size analysis — Part 1: Grain size distribution test.*
- [2] ISO 6344-2:1998, *Coated abrasives — Grain size analysis — Part 2: Determination of grain size distribution of macrogrits P12 to P220.*
- [3] ISO 6344-3:1998, *Coated abrasives — Grain size analysis — Part 3: Determination of grain size distribution of microgrits P240 to P2500.*

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