
**Tools for pressing and moulding —
Machined plates —**

Part 2:
Machined plates for moulds

*Outillage de presse et de moulage — Plaques usinées —
Partie 2: Plaques usinées pour moules*



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.

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.

International Standard ISO 6753-2 was prepared by Technical Committee ISO/TC 29, *Small tools*, Subcommittee 8, *Tools for pressing and moulding*.

Together with ISO 6753-1, it cancels and replaces ISO 6753:1982, which has been technically revised.

ISO 6753 consists of the following parts, under the general title *Tools for pressing and moulding - Machined plates*:

- *Part 1: Machined plates for press tools, jigs and fixtures*
- *Part 2: Machined plates for moulds*

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Printed in Switzerland

Tools for pressing and moulding — Machined plates —

Part 2:

Machined plates for moulds

1 Scope

This part of ISO 6753 specifies the dimensions and tolerances, in millimetres, of machined plates for moulds of the following types:

- type A: clamping plates;
- type B: cavity plates;
- type C: intermediate plates;
- type D: ejector plates;
- type E: risers.

It gives guidance relative to materials and hardness and specifies the designation of machined plates in accordance with this part of ISO 6753.

2 Dimensions

2.1 Clamping plates (type A), cavity plates (type B) and intermediate plates (type C)

See figure 1 and table 1.

2.2 Ejector plates (type D) and risers (type E) assigned to the size of plates

See figure 2 and table 2.

2.3 Tolerances, limit deviations and surface roughness

See table 3.

3 Material and corresponding hardness

The material and hardness are left to the manufacturer's discretion.

4 Designation

Machined plates for moulds in accordance with this part of ISO 6753 shall be designated by

- "machined plate";
- reference to this part of ISO 6753, i.e. ISO 6753-2;
- its type (A, B, C, D or E);
- its length, l_2 , in millimetres (for types A, B or C), or its length l_1 , in millimetres (for types D or E);
- its length, l_1 , in millimetres (for types A, B or C), or its width b or b_1 , in millimetres (for types D or E);
- its thickness t_1 , t_2 or t_3 , in millimetres;
- its class (I or II).

EXAMPLE 1

The designation for a machined plate of type A of length $l_2 = 96$ mm, length $l_1 = 120$ mm, thickness $t_1 = 12,5$ mm and of class I is as follows:

Machined plate ISO 6753-2 - A - 96 × 120 × 12,5 - I

EXAMPLE 2

The designation for a machined plate of type D of length $l_1 = 96$ mm, width $b = 20$ mm, thickness $t_3 = 25$ mm and of class II is as follows:

Machined plate ISO 6753-2 - D - 96 × 20 × 25 - II

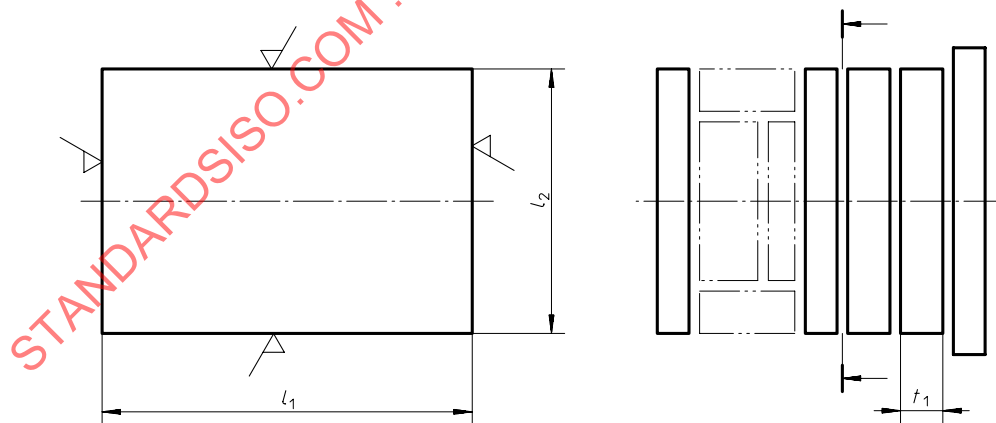


Figure 1 — Clamping, cavity and intermediate plates

Table 1 — Dimensions of clamping, cavity and intermediate plates

Sizes of plates		t_1												
l_2	l_1	12,5	16	20	25	32	40	50	63	80	100	125	160	200
96	× 96	x	x	x	x	x	x	x						
	× 120	x	x	x	x	x	x	x						
120	× 120	x	x	x	x	x	x	x	x					
	× 156	x	x	x	x	x	x	x	x					
156	× 156		x	x	x	x	x	x	x	x	x			
	× 196		x	x	x	x	x	x	x	x	x			
	× 220		x	x	x	x	x	x	x	x	x			
	× 246		x	x	x	x	x	x	x	x	x			
	× 276		x	x	x	x	x	x	x	x	x			
	× 310		x	x	x	x	x	x	x	x	x			
196	× 196			x	x	x	x	x	x	x	x			
	× 220			x	x	x	x	x	x	x	x			
	× 246			x	x	x	x	x	x	x	x			
	× 276			x	x	x	x	x	x	x	x			
	× 310			x	x	x	x	x	x	x	x			
	× 350			x	x	x	x	x	x	x	x			
	× 396			x	x	x	x	x	x	x	x			
220	× 220			x	x	x	x	x	x	x	x			
	× 246			x	x	x	x	x	x	x	x			
	× 276			x	x	x	x	x	x	x	x			
	× 310			x	x	x	x	x	x	x	x			
	× 350			x	x	x	x	x	x	x	x			
246	× 246			x	x	x	x	x	x	x	x	x		
	× 276			x	x	x	x	x	x	x	x	x		
	× 310			x	x	x	x	x	x	x	x	x		
	× 350			x	x	x	x	x	x	x	x	x		
	× 396			x	x	x	x	x	x	x	x	x		
	× 446			x	x	x	x	x	x	x	x	x		
	× 496			x	x	x	x	x	x	x	x	x		
276	× 276				x	x	x	x	x	x	x	x		
	× 310				x	x	x	x	x	x	x	x		
	× 350				x	x	x	x	x	x	x	x		
	× 396				x	x	x	x	x	x	x	x		
	× 446				x	x	x	x	x	x	x	x		
	× 496				x	x	x	x	x	x	x	x		
	× 556				x	x	x	x	x	x	x	x		
310	× 310				x	x	x	x	x	x	x	x		
	× 350				x	x	x	x	x	x	x	x		
	× 396				x	x	x	x	x	x	x	x		
	× 446				x	x	x	x	x	x	x	x		
	× 496				x	x	x	x	x	x	x	x		
	× 556				x	x	x	x	x	x	x	x		
	× 626				x	x	x	x	x	x	x	x		

Sizes of plates		t_1												
l_2	l_1	12,5	16	20	25	32	40	50	63	80	100	125	160	200
350	× 350				x	x	x	x	x	x	x	x	x	
	× 396				x	x	x	x	x	x	x	x	x	
	× 446				x	x	x	x	x	x	x	x	x	
	× 496				x	x	x	x	x	x	x	x	x	
	× 556				x	x	x	x	x	x	x	x	x	
	× 626				x	x	x	x	x	x	x	x	x	
	× 706				x	x	x	x	x	x	x	x	x	
396	× 396					x	x	x	x	x	x	x	x	
	× 446					x	x	x	x	x	x	x	x	
	× 496					x	x	x	x	x	x	x	x	
	× 556					x	x	x	x	x	x	x	x	
	× 626					x	x	x	x	x	x	x	x	
	× 706					x	x	x	x	x	x	x	x	
	× 796					x	x	x	x	x	x	x	x	
446	× 446					x	x	x	x	x	x	x	x	
	× 496					x	x	x	x	x	x	x	x	
	× 556					x	x	x	x	x	x	x	x	
	× 626					x	x	x	x	x	x	x	x	
	× 706					x	x	x	x	x	x	x	x	
	× 796					x	x	x	x	x	x	x	x	
	× 896					x	x	x	x	x	x	x	x	
496	× 496						x	x	x	x	x	x	x	x
	× 556						x	x	x	x	x	x	x	x
	× 626						x	x	x	x	x	x	x	x
	× 706						x	x	x	x	x	x	x	x
	× 796						x	x	x	x	x	x	x	x
	× 896						x	x	x	x	x	x	x	x
	× 996						x	x	x	x	x	x	x	x
556	× 556						x	x	x	x	x	x	x	x
	× 626						x	x	x	x	x	x	x	x
	× 706						x	x	x	x	x	x	x	x
	× 796						x	x	x	x	x	x	x	x
	× 896						x	x	x	x	x	x	x	x
	× 996						x	x	x	x	x	x	x	x
	× 1.116						x	x	x	x	x	x	x	x
626	× 626							x	x	x	x	x	x	x
	× 706							x	x	x	x	x	x	x
	× 796							x	x	x	x	x	x	x
	× 896							x	x	x	x	x	x	x
	× 996							x	x	x	x	x	x	x
	× 1.116							x	x	x	x	x	x	x
706	× 706							x	x	x	x	x	x	x
	× 796							x	x	x	x	x	x	x
	× 896							x	x	x	x	x	x	x
	× 996							x	x	x	x	x	x	x
	× 1.116							x	x	x	x	x	x	x
796	× 796							x	x	x	x	x	x	x
	× 896							x	x	x	x	x	x	x
	× 996							x	x	x	x	x	x	x
	× 1.116							x	x	x	x	x	x	x
896	× 896							x	x	x	x	x	x	x
	× 996							x	x	x	x	x	x	x
	× 1.116							x	x	x	x	x	x	x

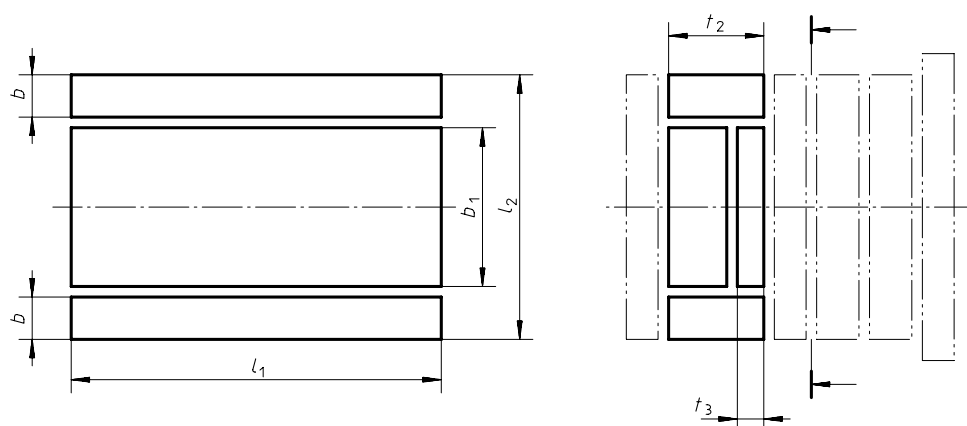


Figure 2 — Ejector plates and risers

Table 2 — Dimensions of ejector plates and risers

Sizes of plates		Risers										Ejector plates																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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