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**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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# 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**

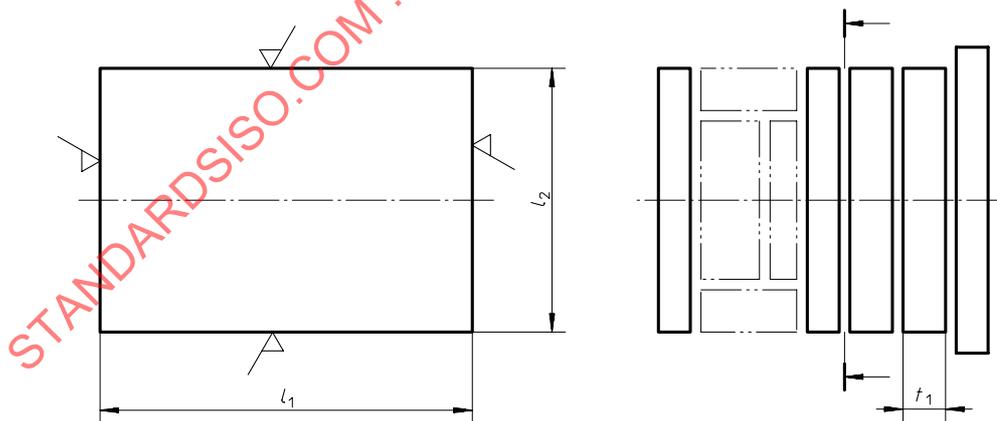


Figure 1 — Clamping, cavity and intermediate plates

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

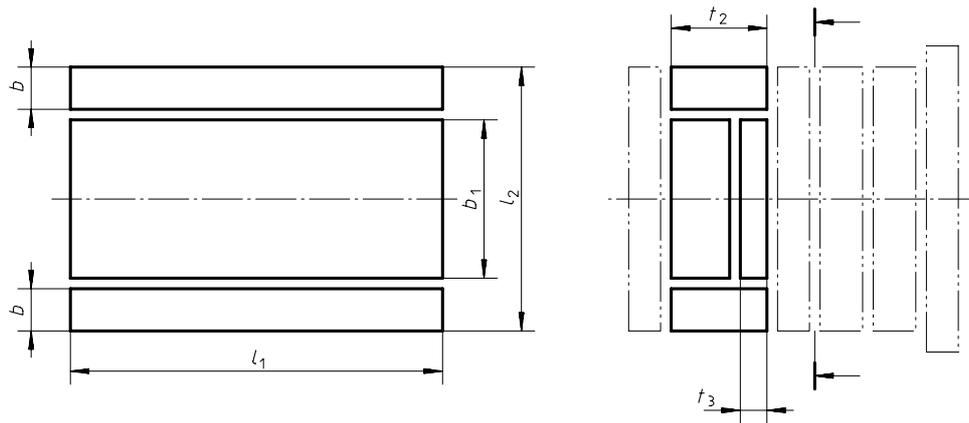


Figure 2 — Ejector plates and risers

Table 2 — Dimensions of ejector plates and risers

Sizes of plates $l_2 \times l_1$	Risers										Ejector plates									
	Outside dimensions $l_1 \times b$		Thickness, $t_2$								Outside dimensions $l_1 \times b_1$		Thickness, $t_3$							
			25	32	40	50	63	80	100	125			160	8	10	12,5	16	20	25	32
96 × 96 × 120	96 × 20 120 ×	x	x	x	x						96 × 54	x	x							
		x	x	x	x						120 ×	x	x							
120 × 120 × 156	120 × 26 156 ×		x	x	x	x					120 × 66	x	x							
			x	x	x	x					156 ×	x	x							
156 × 156 × 196 × 220 × 246 × 276 × 310	156 × 33 196 × 220 × 246 × 276 × 310 ×			x	x	x	x				156 × 88		x		x					
					x	x	x	x			196 ×		x		x					
						x	x	x	x		220 ×		x		x					
						x	x	x	x		246 ×		x		x					
						x	x	x	x		276 ×			x	x					
						x	x	x	x		310 ×			x	x					
						x	x	x	x		310 ×			x	x					
196 × 196 × 220 × 246 × 276 × 310 × 350 × 396	196 × 40 220 × 246 × 276 × 310 × 350 × 396 ×				x	x	x	x			196 × 114			x	x					
						x	x	x	x		220 ×			x	x					
						x	x	x	x		246 ×			x	x					
						x	x	x	x		276 ×			x	x					
						x	x	x	x		310 ×			x	x					
						x	x	x	x		350 ×			x	x					
						x	x	x	x		396 ×			x		x				
220 × 220 × 246 × 276 × 310 × 350	220 × 40 246 × 276 × 310 × 350 ×				x	x	x	x			220 × 138			x	x					
						x	x	x	x		246 ×			x	x					
						x	x	x	x		276 ×			x	x					
						x	x	x	x		310 ×			x	x					
						x	x	x	x		350 ×			x		x				

Sizes of plates			Risers								Ejector plates											
			Outside dimensions		Thickness, $t_2$								Outside dimensions		Thickness, $t_3$							
$l_2 \times l_1$	$l_1 \times b$		25	32	40	50	63	80	100	125	160	$l_1 \times b_1$	8	10	12,5	16	20	25	32	40	50	
246	× 246	246 × 47				x	x	x	x			246 × 150			x	x						
	× 276	276 ×				x	x	x	x			276 ×			x	x						
	× 310	310 ×				x	x	x	x			310 ×			x	x						
	× 350	350 ×				x	x	x	x			350 ×				x	x					
	× 396	396 ×				x	x	x	x			396 ×				x	x					
	× 446	446 ×				x	x	x	x			446 ×				x	x					
	× 496	496 ×				x	x	x	x			496 ×				x	x					
	276	× 276	276 × 47					x	x	x	x		276 × 180			x	x					
× 310		310 ×					x	x	x	x		310 ×				x	x					
× 350		350 ×					x	x	x	x		350 ×				x	x					
× 396		396 ×					x	x	x	x		396 ×				x	x					
× 446		446 ×					x	x	x	x		446 ×				x	x					
× 496		496 ×					x	x	x	x		496 ×				x	x					
× 556		556 ×					x	x	x	x		556 ×				x	x					
310		× 310	310 × 47					x	x	x	x		310 × 214				x	x				
	× 350	350 ×					x	x	x	x		350 ×				x	x					
	× 396	396 ×					x	x	x	x		396 ×				x	x					
	× 446	446 ×					x	x	x	x		446 ×					x	x				
	× 496	496 ×					x	x	x	x		496 ×					x	x				
	× 556	556 ×					x	x	x	x		556 ×					x	x				
	× 626	626 ×					x	x	x	x		626 ×					x	x				
	350	× 350	350 × 47					x	x	x	x		350 × 252				x	x				
× 396		396 ×					x	x	x	x		396 ×				x	x					
× 446		446 ×					x	x	x	x		446 ×				x	x					
× 496		496 ×					x	x	x	x		496 ×				x	x					
× 556		556 ×					x	x	x	x		556 ×					x	x				
× 626		626 ×					x	x	x	x		626 ×					x	x				
× 706		706 ×					x	x	x	x		706 ×					x	x				
396		× 396	396 × 60					x	x	x	x		396 × 272				x	x				
	× 446	446 ×					x	x	x	x		446 ×				x	x					
	× 496	496 ×					x	x	x	x		496 ×					x	x				
	× 556	556 ×					x	x	x	x		556 ×					x	x				
	× 626	626 ×					x	x	x	x		626 ×					x	x				
	× 706	706 ×					x	x	x	x		706 ×						x	x			
	× 796	796 ×					x	x	x	x		796 ×						x	x			
	446	× 446	446 × 60					x	x	x	x		446 × 322					x	x			
× 496		496 ×					x	x	x	x		496 ×					x	x				
× 556		556 ×					x	x	x	x		556 ×					x	x				
× 626		626 ×						x	x	x		626 ×						x	x			
× 706		706 ×						x	x	x		706 ×						x	x			
× 796		796 ×						x	x	x		796 ×						x	x			
× 896		896 ×						x	x	x		896 ×						x	x			
496		× 496	496 × 60						x	x	x	x	496 × 372						x	x		
	× 556	556 ×						x	x	x	x	556 ×						x	x			
	× 626	626 ×						x	x	x	x	626 ×						x	x			
	× 706	706 ×						x	x	x	x	706 ×						x	x			
	× 796	796 ×						x	x	x	x	796 ×						x	x			
	× 896	896 ×						x	x	x	x	896 ×						x	x			
	× 996	996 ×						x	x	x	x	996 ×						x	x			