

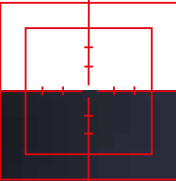
Shims

PERMABLOC[®], LAMIBLOC[®] and MYLAR[®]
For quick and precise machine alignment



PERMABLOC® precut shims – the originals

For quick and precise machine alignment



Ideally, shims are used for vertical machine alignment. Traditionally, these levelling plates are cut to size by hand. This significantly increases the time required for machine alignment. There is also the problem that often, not all required thicknesses are available to ensure good vertical alignment of the machine.

Our PERMABLOC® range of shims considerably facilitates this task. Precut shims have been used successfully in industry for more than 20 years. The range of shims available has been constantly extended. Today, the original PERMABLOC® shims are available in five sizes and eight thicknesses.

PERMABLOC® shims in practical, reclosable packaging. In addition, they save space and weight, as you only need to transport the shims you actually require.

They are deburred and have rounded corners to reduce the risk of injury. A perforated tab allows easier positioning and removal.

PERMABLOC® precut shims

- ▶ are available in 5 different sizes and a range of thicknesses that fit almost all machine feet
- ▶ are made of high-quality stainless steel (1.4301 and 1.4310) and thus offer long-term resistance against corrosion, acids and lyes
- ▶ come in a graded range of thicknesses that allows you to put together virtually all heights from 0.1 to 3 millimetres with just 3 shims, thus avoiding dangerous vibration under the machine feet
- ▶ are fully deburred and perfectly flat to ensure stable and consistent machine support over their entire surface
- ▶ come with permanent size and thickness marking
- ▶ are deburred and have rounded corners and edges to minimise the risk of injury
- ▶ have a perforated tab for easier positioning and removal
- ▶ come in a range of cases, each containing a complete assortment of shims
- ▶ are reusable
- ▶ have a longitudinal shape for optimum support of the machine foot without material overhang

... from extremely small to extremely large

PERMABLOC® shims, dimensions and part numbers

Size A

Part No.	Dimensions			Thickness (mm)	Packet size
	a	b	c		
ALI 2.500 Ak	60	50	15	0.025	20
ALI 2.500 An	60	50	15	0.05	20
ALI 2.500 Ap	60	50	15	0.1	20
ALI 2.500 Ar	60	50	15	0.2	20
ALI 2.500 At	60	50	15	0.4	20
ALI 2.500 Av	60	50	15	0.7	20
ALI 2.500 Aw	60	50	15	1.0	20
ALI 2.500 Ax	60	50	15	2.0	10

Size B

Part No.	Dimensions			Thickness (mm)	Packet size
	a	b	c		
ALI 2.500 Bk	80	70	22	0.025	20
ALI 2.500 Bn	80	70	22	0.05	20
ALI 2.500 Bp	80	70	22	0.1	20
ALI 2.500 Br	80	70	22	0.2	20
ALI 2.500 Bt	80	70	22	0.4	20
ALI 2.500 Bv	80	70	22	0.7	20
ALI 2.500 Bw	80	70	22	1.0	20
ALI 2.500 Bx	80	70	22	2.0	10

Size C

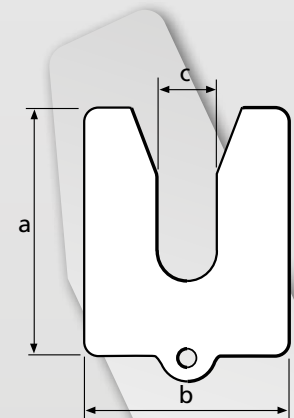
Part No.	Dimensions			Thickness (mm)	Packet size
	a	b	c		
ALI 2.500 Ck	100	80	32	0.025	20
ALI 2.500 Cn	100	80	32	0.05	20
ALI 2.500 Cp	100	80	32	0.1	20
ALI 2.500 Cr	100	80	32	0.2	20
ALI 2.500 Ct	100	80	32	0.4	20
ALI 2.500 Cv	100	80	32	0.7	20
ALI 2.500 Cw	100	80	32	1.0	20
ALI 2.500 Cx	100	80	32	2.0	10

Size D

Part No.	Dimensions			Thickness (mm)	Packet size
	a	b	c		
ALI 2.500 Dk	130	105	44	0.025	20
ALI 2.500 Dn	130	105	44	0.05	20
ALI 2.500 Dp	130	105	44	0.1	20
ALI 2.500 Dr	130	105	44	0.2	20
ALI 2.500 Dt	130	105	44	0.4	20
ALI 2.500 Dv	130	105	44	0.7	20
ALI 2.500 Dw	130	105	44	1.0	20
ALI 2.500 Dx	130	105	44	2.0	10

Size E

Part No.	Dimensions			Thickness (mm)	Packet size
	a	b	c		
ALI 2.500 En	200	165	58	0.05	20
ALI 2.500 Ep	200	165	58	0.1	20
ALI 2.500 Er	200	165	58	0.2	20
ALI 2.500 Et	200	165	58	0.4	20
ALI 2.500 Ev	200	165	58	0.7	20
ALI 2.500 Ew	200	165	58	1.0	20
ALI 2.500 Ex	200	165	58	2.0	10



All dimensions in mm



... now in sturdy plastic cases

Lightweight – robust – waterproof

Our cases are of special sandwich construction, offering the same stability with only a quarter of the weight of conventional injection-moulded cases.

All cases are impact-proof, airtight, waterproof, dustproof, buoyant, tropicalised and extremely durable.

They are also resistant to most chemicals and to temperatures between -23°C and +99°C.

The advantages of the case at a glance

- ▶ Considerably lighter than a sheet steel case
- ▶ More robust than conventional cases
- ▶ Type of protection IP 67 (dustproof and can be immersed in water)
- ▶ Clear arrangement of the shims
- ▶ Clear thickness labelling
- ▶ Plenty of room for additional shims even with standard contents



PERMABLOC® professional case sizes

Part No.	Contains shims of size	Contains shims of thickness (20 shims each)	Total no. of shims	Weight of case	Dimensions of case (L x W x H) in cm
ALI 2.860-P	A, B, C, D	k, n, p, r, t, v, w, x	640	19,6 kg	48,6 x 39,2 x 19,2
ALI 2.861-P	A, B	k, n, p, r, t, v, w, x	320	6,1 kg	27,0 x 24,6 x 12,4
ALI 2.862-P	C	k, n, p, r, t, v, w, x	160	8,3 kg	48,6 x 39,2 x 19,2
ALI 2.863-P	D	k, n, p, r, t, v, w, x	160	10,9 kg	48,6 x 39,2 x 19,2
ALI 2.864-P	C, D	k, n, p, r, t, v, w, x	320	14,8 kg	48,6 x 39,2 x 19,2
ALI 2.865-P	D, E	D-k, n, p, r, t, v, w, x E-n, p, r, t, v, w, x	300	30,3 kg	52,5 x 43,7 x 21,7
ALI 2.866-P	E	n, p, r, t, v, w, x	140	23,4 kg	52,5 x 43,7 x 21,7

*The letter codes for the shim thicknesses (in mm) are as follows: k = 0.025 / n = 0.05 / p = 0.1 / r = 0.2 / t = 0.4 / v = 0.7 / w = 1.0 / x = 2.0

LAMIBLOC® laminated shims

For all special requirements

LAMIBLOC® laminated shims are used wherever conventional sizes are just not enough. Each 1 mm shim is composed of 20 layers, each 0.05 mm thick. The user can simply peel down the shim to the required thickness for machine alignment.

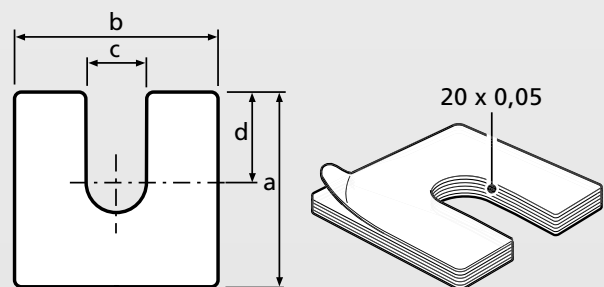


LAMIBLOC® laminated shims

- ▶ are exactly 1 mm thick and peel down easily in layers of 0.1 mm to the required thickness
- ▶ are available in 9 sizes and thus fit nearly all machine feet
- ▶ are made of stainless steel, thus offering long-term resistance against corrosion, acids and lyes
- ▶ are perfectly flat-rolled to avoid vibration and 'soft foot' when stacked together – even several millimetres at a time
- ▶ are a time- and money-saving, safe and practical alternative to hand-cut shims
- ▶ straightforward to work, allowing quick correction of soft foot and slanting foundations
- ▶ have rounded corners to prevent injury
- ▶ shims ALI 2.521 to ALI 2.526 are packed in reclosable cartons

LAMIBLOC® shims, dimensions and part numbers

Part No.	Dimensions				Packet size
	a	b	c	d	
ALI 2.521	43	43	12	22	10
ALI 2.522	53	53	14	27	10
ALI 2.523	68	68	16	34	10
ALI 2.524	98	98	25	49	10
ALI 2.525	118	118	30	59	10
ALI 2.526	200	200	36	100	10
ALI 2.527	300	200	36	240	10
ALI 2.528	400	200	42	330	10
ALI 2.529	1000	500	Sheet stock for custom shims	Sheet stock for custom shims	1



MYLAR® shims light, robust and precise

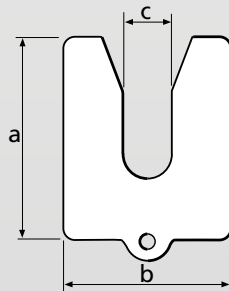
MYLAR® shims

MYLAR® have a definite advantage over conventional shims: they are extremely lightweight. The shim has a total thickness of 1 mm and consists of ten 0.1 mm layers. This further reduces problems arising from adjustment of shim thickness. With increasing globalisation, service and maintenance crews find themselves operating worldwide, and weight plays an increasingly important role in air travel. MYLAR® shims were designed especially for this purpose and are therefore ideal for service and maintenance assignments worldwide.

- ▶ are lower-priced and much lighter than metal shims
- ▶ are exactly 1 mm thick and peel down easily to the required thickness
- ▶ do not deform and can be used repeatedly
- ▶ offer long-term resistance against corrosion, acids and lyes
- ▶ are available in five sizes similar to PERMABLOC® precut shims
- ▶ can be used together with PERMABLOC® precut shims
- ▶ can be peeled down with no risk of injury
- ▶ easy correction of soft foot and slanting foundations

MYLAR® shims, dimensions and part numbers

Order No.	a	b	c
ALI 2.510 A	60	50	15
ALI 2.510 B	80	70	22
ALI 2.510 C	100	80	32
ALI 2.510 D	130	105	44
ALI 2.510 E	200	165	58



MYLAR® shims are light, robust and precise. Reduce unexpected downtimes.

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