metalveb

M82 Aluminium Precision Plate – 6082 T651

Imperial Sizes Exclusively Available From metalweb

High Quality Machineable Plate

Key benefits of M82 plate:

- All tolerances guaranteed before and after sawing
- Fantastic surface finish

M 82

Great stability and flatness

M82 plate offers gauge and flatness tolerances to tighter than 0.7EN specifications. It also possesses enhanced surface finish and post machining stability. Already widely used by many leading CNC machinists and precision engineering companies M82 offers a great combination of exceptional attributes.

M82 plate is suited to a wide range of end use applications from precision tooling through to component manufacture and from electronic vacuum chamber production through to hydraulic industries.

M82 is also consistent in machineability between plates supplied in any batch so there is no need to change machine setups. The plate surface is aesthetically pleasing and needs no further polishing or linishing. The plate also anodises well.



If you haven't tried M82 plate before, please contact metalweb for a free test sample!

Please call one of our UK sales branches to enquire for any of these other materials or send an email to info@metalweb.co.uk



Sizes Available:

Maximum plate size available in each thickness is 3020mm x 1520mm – but all plates can be cut to suit your exact requirements below these maximum dimensions.

Following Thicknesses are available:

Thickness			Flatness			
			Tolerances			
Metric	Imperial	Tolerance	Longitudinal mm/m max.	Transverse mm/m max.	Partial deviation in any 300mm	
6.35mm	1/4"	+/- 0.22	3	2	1	
10.0mm		+/- 0.32	2	2	1	
12.7mm	1/2"	+/- 0.42	2	2	1	
16.0mm		+/- 0.42	2	2	1	
19.05mm	3⁄4"	+/- 0.49	2	2	1	
20.0mm		+/- 0.49	2	2	1	
25.0mm		+/- 0.53	2	2	1	
25.4mm	1"	+/- 0.53	2	2	1	
30.0mm		+/- 0.53	2	2	1	
31.75mm	1 1⁄4"	+/- 0.55	2	2	1	
38.1mm	1 1⁄2"	+/- 0.60	2	2	1	
40.0mm		+/- 0.60	2	2	1	
45.0mm		+/- 0.70	2	2	1	
50.0mm		+/- 0.75	2	2	1	
50.8mm	2"	+/- 0.80	2	2	1	

N.B. these thicknesses are exclusive	to metalweb in the UK!	MECHANICAL AND PHYSICAL PROPERTIES					
Thickness tolerances are produced (205)	to 0.7 x EN limits	PROPERTIES	5mm - 12.5mm	Over 12.5mm	UNIT		
 (EN 485-3 / BSEN485-3) All tolerances guaranteed before an 	nd after sawing	Ultimate Tensile Strength (min)	300	295	MPa		
 All plates linished on top and bottom 	m surfaces	0.2% Yield Strength (min)	255	240	MPa		
Plates comply with EN 573-3, EN 4	85-2, EN 485-3, BSEN	Elongation (min)	9	8	%		
575-3, DSEN 403-2, DSEN 403-3.		Typical Fatigue Strength	110		MPa		
OTHER CHARACTE	RISTICS	Typical Hardness Brinell	95		HB		
Corrosion Resistence	Good	Density	2.70		g/cm ³		
Weldability	ability Good The		180-189		W/mºC		
Formability	Good	Electrical Resistivity at 20°C	0.038 x 10 ⁻⁶		Ωm		
Machinability Good		Modulus of Elasticity	7	C	GPa		
Anodising	sing Good Coe		24 x 10 ⁻⁶		∕°C		
Brazeability Good		Melting Range	555-650		°C		

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