



**Marine Grade
Aluminium
Sheet & Plate**

Products

Marine Grade Aluminium Shate and Plate

Elval Aluminium Shate and Plate has been developed for high corrosion resistance, strength and ductility, at normal or cryogenic temperatures and is widely offered for Marine, Silos and LNG applications.

The wide range offered in width and thicknesses, along with the excellent material and weldability properties, provides great opportunities for light weighting and less welding points.

Elval's High - Magnesium portfolio of products, consists of a broad range of aluminium alloys, that has been specifically developed for the shipbuilding industry, providing excellent solutions for lightweight construction of high speed catamaran, ferries and mega-yachts.



Photographs courtesy of Austal

Production Range

	Imperial
Gauge	up to 0.5"
Width	39.4" to 98.4"
Length	up to 465"
	Metric
Gauge	up to 12.7 mm
Width	1,000 to 2,500 mm
Length	up to 11,800 ¹ mm

¹ Greater lengths can be considered upon request

Mechanical Properties

Alloy	Temper	Thickness (mm)		Rm (Mpa)		Rp0,2 (Mpa)		Elongation min. %		Bend radius	
		Over	Up to	Min.	Max.	Min.	Max.	A50	A	180°	90°
EN AW-5086	0 H111	≥ 1,5	3,0	240	310	100		13		1,0 t	1,0 t
		3,0	6,0	240	310	100		15		1,5 t	1,5 t
		6,0	12,7	240	310	100		17			2,5 t
	H116 H321	≥ 1,5	3,0	275		195		8		2,0 t	2,0 t
		3,0	6,0	275		195		9			2,5 t
		6,0	12,7	275		195		10			3,5 t
EN AW-5083	0 H111	≥ 1,5	3,0	275	350	125		13		1,5 t	1,0 t
		3,0	6,0	275	350	125		15			1,5 t
		6,0	12,7	275	350	125		16			2,5 t
	H116 H321	≥ 1,5	3,0	305		215		8		3,0 t	2,0 t
		3,0	6,0	305		215		10			2,5 t
		6,0	12,7	305		215		12			4,0 t
Poseidon-Hi Strength 5083	H116 H321	≥ 1,5	8,0	330		220		10			
	0 H111	≥ 1,5	3,0	290		145		15			
		3,0	12,7	290		145		17			

Quality Certification

Production according to EN, AA and ASTM standards.

Certificates from DNV, GL, ABS, RINA, BV, or LRS will be provided upon request.





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