

Data Sheet						Internal alloy name: 5754			
EN AW 5754 – Rolled products and tread plates						International alloy name: EN AW 5754			
						Chemical Symbol: EN AW – AlMg3			
Alumeco A/S						DIN-Werkstoff no.: 3.3535			
Main usage						Alloy type None heat treatable alloy			
						Important norms and literature			
Main properties						Rolled products:			
						EN 485-1: Technical conditions for inspection and delivery			
• High corrosion resistance						EN 485-2: Mechanical properties			
						EN 485-3: Tolerances on dimensions and form hot rolled products			
• Good weld abilities						EN 485-4: Tolerances on dimensions and form cold rolled products			
						EN 1386: Tread plate - Specifications			
						Usages:			
						EN 13195: Specifications for wrought products for marine applications			
						EN 602: Chemical composition of semi-finished products for the used for the fabrication of articles for use in contact with foodstuff			
						Chemical composition:			
						EN 573-3: Chemical composition			
Chemical composition (%) EN 573-3									
Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Other elements
0.40	0.4	0.10	0.5	2.6-3.6	0.30	0.20	0.15	Mn + Cr 0.1 - 0.6	Each together 0.05 0.15
Typical mechanical properties EN 485 – 2 and EN 1386 (Tread Plates)									
Thickness range (mm)	Temper	Rm MPa	Rp0,2 MPa	A50 mm %	Hardness* HB	Bend radius*			
						180°	90°		
0.5 up to 1.5	H111	190 - 240	Min. 80	Min. 14	52	0.5t	0.5t		
1.5 up to 3.0	H111	190 - 240	Min. 80	Min. 16	52	1.0t	1.0t		
3.0 up to 6.0	H111	190 - 240	Min. 80	Min. 18	52	1.0t	1.0t		
0.5 up to 1.5	H22	220 - 270	Min. 130	Min. 8	63	1.5t	1.0t		
1.5 up to 3.0	H22	220 - 270	Min. 130	Min. 10	63	2.0t	1.5t		
1.5 up to 3.0**	H114	190 - 260	Min. 80	Min. 10	-	-	2.0t		
3.0 up to 6.0**	H114	190 - 260	Min. 80	Min. 12	-	-	2.0t		
* Information values only									
** EN1386 – Tread Plates									
Physical properties									
Density g/cm³	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion (µm m ⁻¹ K ⁻¹)	Annealing temperature °C	E - modulus (N / mm²)			
2.66	610 - 640	32.5	132	23.7	350 – 400	70,500			
Typical Alumeco products with this alloy									
• Sheets and plates									
• 3/5 and 5/7 tread plate									
Properties and information (3 high/good; 2 medium; 1 poor/bad)									
Resistance		Weldability		Machinability		Anodizing			
Corrosion index, general: 3		TIG welding: 3		Machinability index: 2		Decorative anodizing surface treatment: 1			
Marine atm. corr. index: 3		MIG welding: 3				Protective anodizing index: 3			
Hot workability		Solderability				Hard anodizing: 3			
Extrusion: 2		1				Color anodizing: 2			
Forging: 2						General information			
Cold formability						Decorative anodizing can be a challenge			
Cold formability general: 2						due to the composition of the alloy.			
Deep drawing: 2									
Bending: 2 – 3									
Be aware that the formability categorizations depend on the temper of the alloy									