

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 • Molds • Machines and machines parts • Marine applications • Application for bending • Facade and building industry • Can be used in the food industry • Etc.						Main properties • High corrosion resistance • Good weld abilities				Important norms and literature			
										Rolled products: EN 485-1: Technical conditions for inspection and delivery EN 485-2: Mechanical properties EN 485-3: Tolerances on dimensions and form hot rolled products 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 Each together				
0.40	0.4	0.10	0.5	2.6-3.6	0.30	0.20	0.15	Mn + Cr 0.1 - 0.6	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 Corrosion index, general: 3 Marine atm. corr. index: 3 Hot workability Extrusion: 2 Forging: 2 Cold formability Cold formability general: 2 Deep drawing: 2 Bending: 2 – 3 Be aware that the formability categorizations depend on the temper of the alloy		Weldability TIG welding: 3 MIG welding: 3 Solderability 1		Machinability Machinability index: 2		Anodizing Decorative anodizing surface treatment: 1 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 2 General information Decorative anodizing can be a challenge due to the composition of the alloy.							