SERIES 5000

AW 5754 (Al Mg3)

5754 alloy offers excellent resistance to corrosion (that caused by sea water); good weldability and mechanical resistance. This alloy is especially suitable for folding and bending.

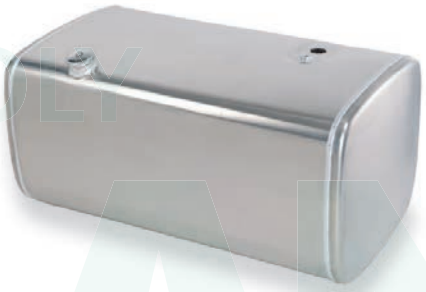
CHEMICAL COMPOSITION (WEIGHT %) (EN 573 - 3)

ELEMENTS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Mn + Cr	Al
Minimum	-	-	-	-	2.6	-	-	-	0.1	-
Maximum	0.4	0.4	0.10	0.5	3.6	0.3	0.2	0.15	0.6	Rest

MECHANICAL PROPERTIES (EN 485 - 2)

TEMPER	THICKNESSES (mm)	Rm (MPa)		Rp0.2* (MPa)	A50 (%)	HB - BRINELL HARDNESS
		min.	max.			
H111	1.5 - 3	190	240	80	16	52
	3 - 6	190	240	80	18	52
	6 - 50	190	240	80	18	52

*Minimum values.



MAIN CHARACTERISTICS

- Average mechanical resistance also in annealed state
- Excellent resistance to corrosion, mainly to sea water
- Easy conformation
- Good weldability

APPLICATIONS

- Boats and vehicles
- Containers and household appliances
- Chemical and food industry
- Architecture and street furniture

POLISHING

MACHINABILITY

WELDABILITY

ELECTRICAL/THERMAL CONDUCTIVITY

≈52 HB
BRINELL HARDNESS

2.67
DENSITY

SERIES 5000

PHYSICAL PROPERTIES

DENSITY	2.67 g/cm^3
MODULUS OF ELASTICITY	70 000 MPa
LINEAR EXPANSION COEFFICIENT	23.2 10^{-6}
THERMAL CONDUCTIVITY	130 - 140 W/mK
ELECTRICAL CONDUCTIVITY	53 - 49 MS/m

DELIVERY PROGRAM

SHEETS

THICKNESSES (mm)	DIMENSIONS (mm)	SHEET WEIGHT(kg)	STOCK H111
2	1000 x 2000	11.00	◕
	1250 x 2500	17.09	◕
	1500 x 3000	24.51	◕
3	1000 x 2000	16.50	◕
	1250 x 2500	25.64	◕
	1500 x 3000	36.77	◕
4	1000 x 2000	22.01	◕
	1250 x 2500	34.18	◕
	1500 x 3000	49.03	◕
5	1000 x 2000	27.51	◕
	1250 x 2500	42.73	◕
	1500 x 3000	61.28	◕
6	1000 x 2000	33.01	◕
	1250 x 2500	51.27	◕
	1500 x 3000	73.54	◕

Average weights of production.
Other dimensions on request.

● Standard: generally available from stock
◕ Semi-standard: generally not available from stock
○ Non-standard: generally not available from stock, manufactured to order and subject to special conditions.