

Cold rolled strip ALUMINIUM AND ALLOYS

AVAILABLE STOCK

FT4/ ANGL/QUAL/Sept'05

GRADE			CONDITION	AVAILABLE THICKNESS
1050A	A5	Al 99.5%	annealed 0 temper rolled H111 – H22 – 24	0.4 to 3.0 mm
5754/A	A- G3M	Al Mg 3%	annealed 0 temper rolled H111 – H22 – 24	0.4 to 3.0 mm

H111 : cold rolled with levelling mechanical treatment H22 to 26: cold rolled followed by a partial annealing heat treatment

CHEMICAL COMPOSITION: NF EN 485-2

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
1050A A5	< 0.25	< 0.40	< 0.05	< 0.05	< 0.05		< 0.07	< 0.05	≥ 99.5
5754/A A-G3M	< 0.40	< 0.40	< 0.10	< 0.50	2.6 to 3.6	< 0.30	< 0.20	< 0.15	Rem < 0.15

MECHANICAL PROPERTIES : NF EN 485-2

Material condition	Thickness (mm)		Aluminium EN AW 1050A (Al 99.5)				Aluminium EN AW 5754 (AlMg3)						
			Tensile strength TS (N/mm ²)		Yield strength YS 0.2 (N/mm ²)		Elongation Min. (%)		Tensile strength TS		Yield strength YS 0.2		Elongation Min. %
	Over	Max.	Min.	Max.	Min.	Max.	E 50	Min.	Max.	Min.	Max.	E 50	
0 / H 111	0.2	0.5	65	95	20		20	190	240	80			12
	0.5	1.5					22						14
	1.5	3.0					26						16
H 22	0.2	0.5	85	125	55		4	220	270	130			7
	0.5	1.5					5						8
	1.5	3.0					6						10
H 24	0.2	0.5	105	145	75		3	240	280	160			6
	0.5	1.5					4						6
	1.5	3.0					5						7
H 26	0.2	0.5	120	160	90		2	265	305	190			4
	0.5	1.5					3						4
	1.5	3.0					4						5
H 28	0.2	0.5	140		110		2	290		230			3
	0.5	1.5					2						3
	1.5	3.0					3						4

SIZE TOLERANCES : NF EN 485-4

Thickness tolerances

Thickness (e)	Alloy group I	Alloy group II
0.2 < e < 0.4	±0.02	±0.03
0.4 < e ≤ 0.5	±0.03	±0.03
0.5 < e ≤ 0.6	±0.03	±0.04
0.6 < e ≤ 0.8	±0.03	±0.04
0.8 < e ≤ 1.0	±0.04	±0.05
1.0 < e ≤ 1.2	±0.04	±0.05
1.2 < e ≤ 1.5	±0.05	±0.07
1.5 < e ≤ 1.8	±0.06	±0.08
1.8 < e ≤ 2.0	±0.06	±0.09
2.0 < e ≤ 2.5	±0.07	±0.10
2.5 < e ≤ 3.0	±0.08	±0.11

Concerns width less than or equal to 1000 mm

Alloy group I : 1050 A

Alloy group II : 5754

Width tolerances (L)

Thickness (e)	L≤100	100<L≤300	300<L≤500
0.2 < e ≤ 0.6	+0.3	+0.4	+0.6
	0	0	0
0.6 < e ≤ 1.0	+0.3	+0.5	+1.0
	0	0	0
1.0 < e ≤ 2.0	+0.4	+0.7	+1.2
	0	0	0
2.0 < e ≤ 3.0	+1.0	+1.0	+1.5
	0	0	0

Straightness tolerances

Required width		Lateral deflection max. (mm)
Over	≤	
≥ 25	100	8
100	300	6
300	600	5
600	1000	5

Widths less than 25 mm : To be agreed.