

THICKNESS:
4mm

ALLOY SERIES: 1) 1100 2) 3105 3) 5005

S.NO	PROPERTIES	STANDARD	UNIT	AL -1100	AL-3105	AL-5005
1	Skin thickness	....	mm	0.5		
2	Weight	....	kg/m ²	8		
3	Standard Width	.....	mm	1,250		
4	Special width min quantity 2000sqm (incl 1000mm)	.....	mm	Upto 1500 max		

MECHANICAL PROPERTIES

5	Section modulus(W)	DIN 53293	cm ³ /m	1.62	1.7	1.75
6	Rigidity (Poisson's ratio $\mu = 0,3$)	DIN 53294	KN cm ² /m	2300	2320	2400
7	Alloy	EN 573-3	.....	EN AW- 1100	EN AW- 3105	EN AW- 5005A (Al mg1)
8	Temper	EN 515	....	H16/H18	H14/H16	H22/H42
9	Modulus of Elasticity	EN 1999 1-1	N/mm ²	≥70000		
10	Tensile Strength of Aluminium	EN 485-2	N/mm ²	R _m ≥ 135	R _m ≥ 140	R _m ≥ 145
11	0.2% Proof Stress	EN 485-2	N/mm ²	R _{po} ≥ 85	R _{po} ≥ 90	R _{po} ≥ 95
12	Elongation	EN 485-2	%	A ₅₀ ≥ 6	A ₅₀ ≥ 5	A ₅₀ ≥ 5
13	Linear Thermal Expansion	EN 1999 1-1	mm/m @100°C	2.4		

CORE PROPERTIES

14	Core	EN 13501-1:2007+A1:2009 CLAUSE 8 &NFPA 285 /BS6853 UBC17-5	CLASS- A2,S1,d0 Passed	Fire Rated Mineral Filled core		
15	Surface burning test	ASTM E84	.....	passed		
16	fire ehaiour	AS 1530 PART 3	.....	Passed		
17	Vertical transmission	ASTM E 108	.....	Passed		
18	Rate of burning	ASTM D 2015	.....	500 btu/lb		

SURFACE FINISH PROPERTIES

19	Type/finish	....	.....	PVDF / FEVE		
20	Gloss @60°C	ECCA T2	%	30-45 / 20-80		
21	Pencil hardness	ECCA T4	.....	min HB		

ACOUSTICAL PROPERTIES

22	Sound absorbtion factor	ISO 354	....	0.05		
23	Sound transmission Loss (Rw)	ASTM E90	dB	STC: 27 OITC:22		

THERMAL PROPERTIES

24	Thermal resistance R	ASTM C518	M ² K/W	0.003		
25	Temperature resistance		°C	-50....+80		