

THICKNESS: 4mm

 ALLOY SERIES:  
 1) 1XXX 2) 3XXX 3) 5XXX

S.NO	PROPERTIES	TOLERANCE	STANDARD	UNIT	AL -1XXX	AL-3XXX	AL-5XXX
1	Skin thickness	±0.05	....	mm	0.5		
2	Weight	±0.02	....	kg/m <sup>2</sup>	7		
3	Standard Width	±2	.....	mm	1250 & 1500		
4	Panel Thickness	±0.03		mm	4		
5	Special width min quantity 2000sqm (incl 1000mm)	±2	.....	mm	1500 max		

### FIRE BEHAVIOUR PROPERTIES

Fire behaviour	FR Classification	Section Number	Core	Document Number	Testing Agency	
6	BS 476 part 6&7	part 6 class 0 part 7 class 1	Mg(OH) <sub>2</sub> Based core	5061	EXOVA WARRINGTON-UK	
7	EN 13501-1	B, s1, d0		1	WF No. 304840	EXOVA WARRINGTON-UK
8	ASTM E 119	Min 1 hr fire rating		-	01.12694.307	SOUTH WEST RESEARCH INSTITUTE
9	NFPA 285	Passed		.	...	ATI -U.S.A
10	ASTM E 84-12	Meet The requirements		.	NC 24	Thomas Bell Wright International Consultant

### MECHANICAL PROPERTIES

11	Section modulus(W)	DIN 53293	cm <sup>3</sup> /m	1.62	1.7	1.75
12	Rigidity (Poisson's ratio $\mu = 0,3$ )	DIN 53294	KN cm <sup>2</sup> /m	2300	2320	2400
13	Alloy	EN 573-3	.....	EN AW- 1100	EN AW-3003/ 3105	EN AW- 5005A (Al mg1)
14	Temper	EN 515	....	H16/H18	H14/H16	H22/H42
15	Modulus of Elasticity	EN 1999 1-1	N/mm <sup>2</sup>	≥70000		
16	Tensile Strength of Aluminium	EN 485-2	N/mm <sup>2</sup>	R <sub>m</sub> ≥ 135	R <sub>m</sub> ≥ 140	R <sub>m</sub> ≥ 145
17	0.2% Proof Stress	EN 485-2	N/mm <sup>2</sup>	R <sub>po</sub> ≥ 85	R <sub>po</sub> ≥ 90	R <sub>po</sub> ≥ 95
18	Elongation	EN 485-2	%	A <sub>50</sub> ≥ 6	A <sub>50</sub> ≥ 5	A <sub>50</sub> ≥ 5
19	Linear Thermal Expansion	EN 1999 1-1	mm/m @100°C	2.4		

### CORE PROPERTIES

20	Core	.....	CLASS B	Mg (OH) <sub>2</sub> / Al (OH) <sub>2</sub> Based polymeric bonded core		
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### SURFACE FINISH PROPERTIES

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

### ACOUSTICAL PROPERTIES

24	Sound absorbtion factor	ISO 354	....	0.05		
25	Sound transmission Loss (Rw)	ASTM E90	dB	STC: 26 OITC:22		

### THERMAL PROPERTIES

26	Thermal resistance R	ASTM C518	M <sup>2</sup> K/W	0.0089		
27	Temperature resistance		°C	-50....+80		