

PHYSICAL PROPERTIES

S. NO	PROPERTIES	TOLERANCE	STADARD	UNIT	ALLOY SERIES AL-3003
1	Panel Thickness			mm	4
2	Skin Thickness	.+ 0.05	...	mm	0.5 mm
3	Weight	.+ 0.5	...	kg/m ²	upto 7.8 Kg/sqmtr
4	Standard Width	.+ 2	...	mm	1000, 1250 & 1500
5	Panel Thickness	.+ 0.3	...	mm	3, 4 & 6MM

FIRE BEHAVIOUR PROPERTIES

FIRE BEHAVIOUR	FR CLASSIFICATION	SECTION NUMBER	CORE	DOCUMENT NUMBER	TESTING AGENCY	
6	EN13501-1	Class B s1 d0	ACP	Mineral	13355-2779	APPLUS SPAIN
7	ASTM E-84	Class A	ACP	Mineral	PE 067-2	THOMAS BELL WRIGHT
8	ASTM E-84	Class A	CORE w/o skin	Mineral	PE 067-1	THOMAS BELL WRIGHT
9	ASTM D1929	Self Ignition Temp	ACP - 460° C	Mineral	G4872	INTERTEK USA
10	ASTM D1929	Self Ignition Temp	CORE - 450° C	Mineral	G4872	INTERTEK USA
11	EN 13501-1	Class B s1 d0	CERTIFICATE	Mineral	TBW0300150	THOMAS BELL WRIGHT
12	NFPA 285	PASS	CERTIFICATE	Mineral	TBW0300119.1	THOMAS BELL WRIGHT
13	ASTM E119	3 Hrs FR	CERTIFICATE	Mineral		THOMAS BELL WRIGHT
14	CAVITY BARRIER	Class A1 s1 d0	DCD Approved	Non Combustible	LAMATHERM	SIDERISE - UK

MECHANICAL PROPERTIES

15	Rigidity	ASTM C393	N	2523
16	Alloy	EN 573-3	3003
17	Temper	EN 515	H16
18	Modulus of Elasticity	EN 1999 1-1	N/mm ²	70,000
19	Tensile Strength of Aluminium	EN 485-2	Mpa	172
20	0.2% Proff Stress	EN 485-2	Mpa	155
21	Elongation	EN 485-2	%	3.1
22	Climbing Drum Peel Test	ASTM D1781	Nmm/mm	348 after 8hrs boiling water & 21 days
23	Linear Thermal Expansion	EN 1999 1-1	mm/m @ 100°C	2.4

CORE PROPERTIES

24	Core	ASTME-84	CLASS- A Passed	Mg (OH) ₂ Based polymeric bonded Core
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SURFACE FINISH PROPERTIES

25	Type/Finish	PVDF / FEVE
26	Gloss @60°C	ECCA T2	%	20-45 / 20-80
27	Pencil Hardness	ECCA T4	min HB
28	Adhesion (Dry condition)	AAMA 2605		No loss of adhesion

ACOUSTICAL PROPERTIES

29	Sound transmission Loss (Rw)	ASTME90	dB	STC: 25 OITC:21
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THERMAL PROPERTIES

30	Thermal resistance R	ASTM C518	M ² K/W	0.01
31	Temperature resistance		°C	-50....+100
32	Heat Deflection Temperature	ASTM D648	Deg C	164.5