

## proBOND Digital Aluminium Composite Material

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### Product Description:

proBOND Digital Aluminium Composite is ideal for cost effective two dimensional applications, particularly where UV digital printing is to be added. The optimised Matt White Digital Paint ensures excellent ink adhesion and quality print reproduction, even at high speeds. proBOND Digital comes with a 5 year guarantee and has numerous accreditations to ensure compliance to all recognised standards.

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### Panel Dimensions

Panel Thickness:	3mm
Aluminium Skin Thickness:	0.15mm and 0.18mm
Weight:	3.9kg/m <sup>2</sup> and 4kg/m <sup>2</sup>
Standard sizes:	1,220 x 2,440mm and 1,500 x 3,050mm

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### Dimensional Tolerances

Film:	Transparent film, the standard transparent film thickness is 60µm
Thickness:	±0.2mm
Width:	±2mm
Length:	±3mm
Diagonal:	≤5mm
Thermal Expansion:	2.4mm/m (100 °C Temp difference)
Colour Difference:	White - ΔE ≤ 0.5

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### Surface Properties

Paint Thickness (Micron):	20
Pencil Hardness:	2H
Toughness of Coating:	3T
Temperature Resistance:	-50 °C to +90 °C
Impact Strength (kg/cm <sup>2</sup> ):	50
Boiling Water Resistance:	Boiling for 2hrs without change
Acid Resistance:	Surface immersed in 2% HCl for 24hrs without change
Alkali Resistance:	Surface immersed in 2% NaHO for 24hrs without change
Oil Resistance:	Surface immersed in 20# engine oil for 24hrs without change
Solvent Resistance:	Cleaned 100 times with Dimethylbenzene without change
Peel Strength 180 °:	> 3 Newton/mm

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Description	Stock Code	Sheet size	Thickness	Aluminium Thickness
ACMHC proBOND Digital Grade 1100 alloy Aluminium Composite White Matt / Matt	ACMHC-3000-2440-1220	2,440 x 1,220mm	3mm	0.18mm
	ACMHC-3000-3050-1500	3,050 x 1,500mm	3mm	0.18mm
ACMHE proBOND Digital Grade 1100 alloy Aluminium Composite White Matt / Mill	ACMHE-3000-2440-1220	2,440 x 1,220mm	3mm	0.15mm
ACMHB proBOND Digital Grade 1100 alloy Aluminium Composite White Matt / Matt	ACMHB-3000-2440-1220	2,440 x 1,220mm	3mm	0.15mm

## Certification

Test / Classification	Certification Number	Accreditation Body
ISO9001:2008	016SH15Q20099R1M	BCC
ISO14001:2004	016ZB15E20050R1M	BCC
UL	20141119-E350268	UL LLC
CE	CPC13/041661	CPC
RoHS	CANML1201494302	SGS
REACH	CANML1312451103, CANML1312451101	SGS
FDA	CANMLC1304320201	SGS
EN13501	GZMR120509330, GZMR120509331, GZMR120509332, GZMR130914391	SGS
ASTM	SP110602979	SGS
BS476 Part 6 and 7 (Class 1 and 0)	SHAM20150300490-1	TUV

The estimated durability is based on accelerated ageing tests and refers to a vertical exposure under middle European climates. The durability of the product depends on the substrate's preparation, the atmospheric conditions and the environmental influence. Exposure to extreme conditions (tropical climate, high humidity, high UV-light exposure or polluted areas) can decrease the durability in a dramatically way. All our products are subjected to a strict quality control by our QM-System, which is in accordance with ISO/TS 16949, DIN EN ISO 9001 and DIN EN ISO 14001. The information is based on our present knowledge and our experience. Because of the large number of possible influences during the processing and application of our products, this information does not release the user from the obligation to conduct his own tests and trials. Users of our products are responsible for observing any patent rights that may exist and for following existing regulations. Our applications technology section is always pleased to give advice about suitability tests on original materials.