

ALUMINIUM COMPOSITE PANEL



ADVERTISING | ARCHITECTURE | PROCESSING & CONSTRUCTION

COMPANY PROFILE

Dotmar Engineering Plastic Products was founded in 1967 and in 2017 celebrates 50 years of service to a multitude of customers across Australia & New Zealand. As the world around us changed, so have we – evolving continually to provide the right product and the right solution to the market. This evolution and the ever growing product and application portfolio has led to another change – being known as Dotmar Plastic Solutions. Dotmar is currently one of the largest importers, distributors and machinists of thermoplastic stock shapes, polyurethane and conveyor components in Australia and New Zealand.

Dotmar has built up its market-leading position by delivering a high level of customer service and applications advice, supported by a deep level of technical expertise. We offer an extensive knowledge base coupled with strong partnerships across an impressive list of world leading manufacturers.

Our focus is the technical application of thermoplastic materials in a number of vast range of industries, ranging from mining, pharmaceutical and materials handling to architectural products and design. Dotmar excels in distribution, technical support, material selection and applications development. Part of the MM Plastics family, Dotmar has a number of sister companies which even further broaden its offering to the market.

Dotmar Comprises Three Focused Areas of Business:

**Material
Distribution**

**Application
Solutions**

**Custom
Engineering**



The Professional Supplier of Aluminium Composite Panel Technology Applications

PIVOT has established long-term and stable strategic partnerships with the European and American premier advertising and architecture design groups, proven in applications such as signage, public facilities and landmark buildings. PIVOT has passed the rigorous tests of the SGS and PSB professional testing institutions and has been certified as Class 1.

PIVOT Aluminium Composite Panels are not only utilised for the manufacture of sign advertising but are readily used and specified by construction and building industries. PIVOT ACP's excellent features are the source of its success.

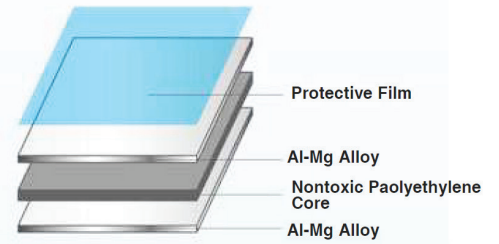


DOTMAR ...your partner in performance plastics

With ACP you buy a lot more than aluminium composite panel!

Aluminium Composite Panels is composed of nontoxic low density polyethylene core between two sheets of high strength aluminium alloy. Because of its superior performance in rub-resistance, acid-resistance and alkali-resistance, it is widely used as modern building cladding and for interior design

Dotmar aluminium surface has a polyester or PVDF paint finish which makes it ideal for use as a sign board.



Architecture | Advertising | Processing & Construction



ACP Features & Benefits:

- Lightweight
- High strength
- Weather & UV - resistant
- Easy maintenance & installation
- Easily processed to designers specifications
- Outstanding colour & gloss retention
- Environmentally friendly
- Dimensionally stable - will not expand/shrink



Delivery Program:

Thickness: 3mm to 6mm
Width: 1000 - 2000mm;
1220mm, 1250mm & 1500mm are recommended
Length: Max is up to 5800mm, 2440mm,
3050mm & 4050mm are recommended.

Skin Thickness of aluminium sheet: 0.21mm, 0.3mm
Other Skin and Core Thicknesses are available.

Dotmar ACP's advantages makes it one of the best cladding materials in the world.

It's widely used in building industries, for example: Office buildings, luxury residential, villas, hotels, shopping centres, entertainment venues, petrol stations, chain stores, subways, curtain wall, internal and external walls, ceilings, eaves, balconies, galleries, exhibition stands, partitions, advertising fascia, Point of Sale and signage and the reconditioning of old buildings.

Superior Rigidity. Unbelievably light with amazing hardness.

ACP Weather Resist Parameter

Time	Colour Variation	Chalking
	ECCA/T3 ASTMD-2244-89	ASTMD-659-86
	dE	Index: 1-10
5 year	3	8
7 year	3	7
10 year	4	7v

dE 3= Very Good
dE 4= Good
dE 5= Satisfactory

Index 10= No Chalking
Index 1= Strong Chalking

Panel Thickness	Standard	Unit	2mm	3mm	4mm	6mm
Thickness of Aluminium	DIN 1784	mm	0.3	0.3	0.3	0.3
Aluminium Thickness Deviation	DIN 1784	mm	±0.01	±0.01	±0.01	±0.01
Weight		Kg/m ²	2.92	3.85	4.76	6.75
Tolerance in Length	DIN 16927 / ISO11833-1	mm	-0 / +2	-0 / +2	-0 / +2	-0 / +2
Tolerance in Width	DIN 16927 / ISO11833-1	mm	-0 / +1.5	-0 / +1.5	-0 / +1.5	-0 / +1.5
Tolerance in Thickness	DIN 16927 / ISO11833-1	mm	± 0.15	± 0.10	± 0.10	± 0.15
Horizontal Flatness	DIN ISO 1101	mm	6	5	4	4
Longitudinal Roughness	DIN ISO 1101	mm	6	5	5	5

Technical Properties

Section Modulus W	DIN 53293	cm ³ /m	1.01	1.25	1.75	2.75
Rigidity(Poisson's ratio $\mu = 0.3$) E.J	DIN 53293	kNm ² /m	0.67	0.14	0.28	0.63
Alloy	EN 573-3	ENAW	1100			
Temper of Cover Sheets	EN 515		H16/H18			
Modulus of Elasticity	EN 19991-1	N/mm ²	70,000			
Tensile Strength of Aluminium	EN 485-2	N/mm ²	$R_m \geq 145$			
0.2% Proof Stress	EN 485-2	N/mm ²	$R_{p0.2} \geq 100$			
Elongation	EN 485-2	%	$A_{50} \geq 2$			
Linear Thermal Expansion	EN 1999 1-1	mm/m°C	2.4 at 100°C Temp difference			

This specification provides typical data to the best of our knowledge at the time of publishing. Due to our inability to control conditions of use and application, we are unable to make any recommendations or suggestions. Dotmar EPP PTY assumes no liability for use of information presented herein.



For more info please contact your local Dotmar office.

VICTORIA

30-32 Garden Boulevard
Dingley VIC 3172
T: +61 (03) 9552 4444
F: +61 (03) 9552 4400
E: dotvic@dotmar.com.au

NEW SOUTH WALES

25 Loyalty Road
North Rocks NSW 2151
T: +61 (02) 8848 5000
F: +61 (02) 8848 5050
E: dotnsw@dotmar.com.au

QUEENSLAND

67 Dulacca Street
Acacia Ridge QLD 4110
T: +61 (07) 3727 0900
F: +61 (07) 3272 0173
E: dotqld@dotmar.com.au

SOUTH AUSTRALIA

Units 1-2, 487 South Road
Regency Park SA 5010
T: +61 (08) 8346 0011
F: +61 (08) 8346 0022
E: dotsa@dotmar.com.au

WESTERN AUSTRALIA

46-48 Wittenberg Drive
Canning Vale WA 6155
T: +61 (08) 9456 4700
F: +61 (08) 9456 4711
E: dotwa@dotmar.com.au