

# beBond ACP™

a beLine® product

beBond ACP is Glantz's solid core aluminum composite panel.



#### Features & Benefits

- A high-quality, low-cost ACP panel for interior and exterior signage needs.
- Flat, smooth surface ready for paint, inks, vinyl letters and more.
- Premium products are optimal for direct digital printing, bending, routing and cutting.
- Durable, water resistant construction.
- Solid core prevents bowing, warping, swelling and delamination.
- "Enhanced" product is specially designed to offer enhanced performance in print applications.
- Limited six-month warranty on Econo and up to 10 years limited warranty on Premium and Enhanced. (Contact your local branch for full warranty information.)

#### Ideal Usage

- Scoreboards and Billboards
- Real Estate Signs
- Highway Signage and Government Spec Work
- Fascias and Canopies

DESCRIPTION	COLOR	SIZE	GLANTZ CODE
Econo, 1-sided	White/Natural	3mm, 4' x 8'	EMFB30
Econo, 2-sided	White/White	3mm, 4' x 8'	EMFB31S
Premium, 1-sided	White/Natural	3mm, 4' x 8'	EMPB30
Premium, 2-sided	White/White	3mm, 4' x 8'	EMPB31L
Premium, 2-sided	Black/White	3mm, 4' x 8'	EMPB31BK
Premium, 2-sided	White/White	3mm, 4' x 10'	EMPB32
Premium, 2-sided	White/White	3mm, 5' x 10'	EMPB35
Enhanced, 2-sided	White/White	3mm, 4' x 8'	EMPB3482S

Available in Premium 6mm. Contact your local branch for details.



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## Technical Data of

## ECONO 3mm

## PREMIUM 3mm

## ENHANCED 3mm

Panel Specifications		ECONO 3mm		PREMIUM 3mm		ENHANCED 3mm	
Characteristics	Size	Tolerance	Size	Tolerance	Size	Tolerance	
Width and Length	4' x 8' or 4' x 10'	-3~ +3mm	4' x 8' or 4' x 10'	-3~ +3mm	4' x 8' or 4' x 10'	-3~ +3mm	
Thickness	3mm	-0.2 ~ +0.2mm	3mm	-0.2 ~ +0.2mm	3mm	-0.2 ~ +0.2mm	
Squareness	Diagonals equal within -3 ~ +3mm		Diagonals equal within -3 ~ +3mm		Diagonals equal within -3 ~ +3mm		
Flatness	Maximum variation: -0.2 ~ +0.2mm		Maximum variation: -0.2 ~ +0.2mm		Maximum variation: -0.2 ~ +0.2mm		
Aluminum and Paint Specifications		ECONO 3mm		PREMIUM 3mm		ENHANCED 3mm	
Characteristics	Standard Index	Tolerance	Standard Index	Tolerance	Standard Index	Tolerance	
Aluminum Thickness	0.10mm	-0.2 ~ +0.2mm	0.20mm	-0.2 ~ +0.2mm	0.15mm	-0.2 ~ +0.2mm	
Paint Film Thickness	16µm	-1~ +1µm	16µm	-1~ +1µm	16µm	-1~ +1µm	
Alloy/Temp	AA1100, H18		AA1100, H18		AA1100, H18		
Surface Pencil Hardness	2H		2H		2H		
Paint	1- or 2-sided Polyester painting system		1- or 2-sided Polyester painting system		2-sided Polyester painting system		
Flexibility	T		T		T		
Pollution Resistance	< 4.3%		< 4.3%		< 4.3%		
Adhesive	Class 1		Class 1		Class 1		
Physical and Chemical Specifications		ECONO 3mm		PREMIUM 3mm		ENHANCED 3mm	
Panel Thickness	3mm		3.55mm		3mm		
Cover Sheet Thickness	0.1mm		0.2mm		0.15mm		
Weight	3.18 Kg/m <sup>2</sup>		3.55 Kg/m <sup>2</sup>		3.52 Kg/m <sup>2</sup>		
Moment of Inertial I	0.123 cm <sup>2</sup> /m		0.123 cm <sup>2</sup> /m		0.123 cm <sup>2</sup> /m		
Section Modulus W	0.81 cm <sup>3</sup> /m		0.81 cm <sup>3</sup> /m		0.81 cm <sup>3</sup> /m		
Rigidity E J (kN cm <sup>2</sup> /m)	N/A		865		N/A		
Alloy/Condition of Cover Sheets	AA1100, H18		AA1100, H18		AA1100, H18		
Modulus of Elasticity (N/mm <sup>2</sup> )	70,000		70,000		70,000		
Tensile strength of cover sheets (N/mm <sup>2</sup> )	R <sub>m</sub> : 145 – 185		R <sub>m</sub> : 145 – 185		R <sub>m</sub> : 145 – 185		
Proof Stress (0.2%) (N/mm <sup>2</sup> )	R <sub>p0.2</sub> : 110 – 175		R <sub>p0.2</sub> : 110 – 175		R <sub>p0.2</sub> : 110 – 175		
Breaking Elongation	A <sub>50</sub> > 3%		A <sub>50</sub> > 3%		A <sub>50</sub> > 3%		
Peel Strength	4 N/mm		4 N/mm		4 N/mm		
Heat Distortion Temp.	102°C		102°C		102°C		
Bending Strength	72MPa		72MPa		72MPa		
Impact Resistance	20kg cm no depainting, no crack		20kg cm no depainting, no crack		20kg cm no depainting, no crack		
Linear Thermal Expansion	2.0mm/m at 100°C difference in temp		2.0mm/m at 100°C difference in temp		2.0mm/m at 100°C difference in temp		
Sound Absorption Factor (α <sub>s</sub> )	0.05		0.05		0.05		
Airborne Sound in Solution	24		24		26		
Index R <sub>w</sub> (dB)	N/A		N/A		N/A		
Loss Factor d	0.0057		0.0057		0.0102		
Thermal Resistance 1/Λ (m <sup>2</sup> K/w)	0.0080		0.0080		0.0180		
Heat Transition Coefficient K (W/m <sup>2</sup> K)	5.61		5.61		5.30		
Water Absorption (%) DIN 53495	0.01		0.01		0.01		
Static charge	No antistatic treatment necessary		No antistatic treatment necessary		No antistatic treatment necessary		
Temperature resistance (°C)	-50~+80		-50~+80		-50~+80		
Core: Polyethylene LDPE (g/cm <sup>3</sup> )	0.94		0.94		0.94		
Surface		ECONO 3mm		PREMIUM 3mm		ENHANCED 3mm	
Painting	Polyester painting system		Polyester painting system		Polyester painting system		
Colors	White and Black		White		White		
Temperature Resistance	From -50°C to + 80°C		From -50°C to + 80°C		From -50°C to + 80°C		
UV Stability	Very good		Very good		Very good		

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