Product Specification Data

maxmetal™

Description

MAXMETAL is an aluminum composite material comprised of two, pre-painted .15mm aluminum panels bonded to a solid polyethylene core. It's lighter in weight and more durable than both MDO and aluminum, plus it resists scratching and denting better than wood panels. The finish is ready for vinyl, screen print inks, paint, cutting, or routing.

Product Properties

Weight (Kg/m2)	3.55
Sound Absorbtion NRC	0.05
Sound Attenuation Rw db	24
Water Absorbtion % by volume	0.01
Thermal Performance R Values	0.0057
Core Composition	Polyethylene
Flammability BS476	Part 6: Class 0, Part 7: Class 1

Panel Dimensions

Panel Thickness (mm)	3
Aluminum Thickness (mm)	0.15
Standard Sizes:	4' x 8', 4' x 10', 5' x 10'

Product Code

MM843MW

MM843MW1S

Dimensional Tolerances

Thickness (mm)	-0 + 0.2
Width (mm)	±2
Length (mm)	±3
Diagonal (mm)	±5
Thermal Expansion	2.4mm/m @ 100°C Temp Difference
Aluminum Thickness (mm)	±0.02

Surface Properties

Paint Thickness (micron)	20
Pencil Hardness	>HB
Toughness of Coating	3T
Temperature Resistance	-50°C to +90°C
Impact Strength (kg cm2)	42
Boiling Water Resistance	Boiling for 2 hours without change
Acid Resistance	Immersed surface in 2% HC1 for 24hrs without change
Alkali Resistance	Immersed surface in 2% NaOH for 24hrs without change
Oil Resistance	Immersed surface in 20# engine oil for 24hrs without change
Solvent Resistance	Cleaned 100 times with Dimethylbenzene without change
Cleaning Resistance	>1000 times without change
Peel Strength	>5 Newton/mm

DIBOND®

The ultimate Aluminum Composite Material (ACM) for the display & signage markets

COMPOSITES

DIBOND | *Superior Surface, Superior Performance*
• Comprised of two pre-painted sheets of .012" aluminum with a solid polyethylene core
• Premium, smooth surface is ideal for digital & screen printing as well as mounting
• Can be digitally printed on both sides
• Provides excellent durability in outdoor applications
• Superior surface protects expensive digital and screen-printed graphics
• Can be routed and returned to add dimension, or roll-formed to create dramatic curves
• Brushed metal and mirror finishes provide a high quality aesthetic for interior design applications
• A range of high gloss & matte color options
• Flattest panel on the market - won't bow or oil can
• Approximately 1/2 the weight of a solid aluminum sheet
• Self extinguishing; Class A fire rating (ASTM E-84)
• UL 879 certified for electric sign components

Coil-Coated Paint
.012"Aluminum Facers
Polyethylene Core
DIBOND

DIBOND BUTLERFINISH Brushed Metals | *Quality Meets Design*
• Specialized manufacturing process creates an embossed, brushed aesthetic
• High-quality brushed effect is ideal for store design, furniture construction, high-end store displays and signage applications
• Extremely unique results when direct digital or screen printed
• Provides the same product & processing capabilities of standard DIBOND

DIBOND COLORS

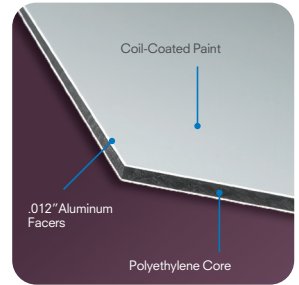## NEW! DIBOND Specialty Mirror Finishes | *A Reflection of Quality*
• Specialized manufacturing process creates a clear, reflective mirror surface
• High-quality finish is perfect for store design, high-end retail displays and signage applications
• Mirror surface doesn't flake off during cutting or fabrication
• Light weight & durable - won't break during transportation or installation
• Less sensitive to pressure than acrylic or glass - no warping
• Approximately 1/2 the weight of a conventional glass mirror

BUTLERFINISH® Brushed Metals
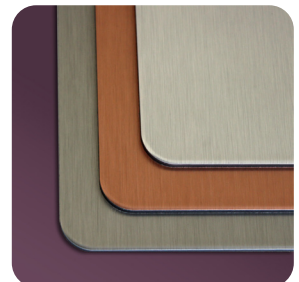
E-PANEL | *ACM For Flat Panel Applications*
• Comprised of two pre-painted sheets of .008" aluminum with a solid polyethylene core
• Recommended for flat panel applications
• Suitable to mount graphics
• Suitable for digital & screen printing
• Digitally printable on both sides
• Can be saw cut, routed or punched

DIBOND MIRRORS

EPL-5 | *ACM For Flat Panel Applications*
• Comprised of two pre-painted sheets of .005" aluminum with a solid polyethylene core
• Recommended for flat panel applications
• Suitable to mount graphics
• Suitable for printing
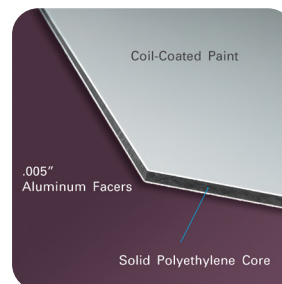• Digitally printable on both side
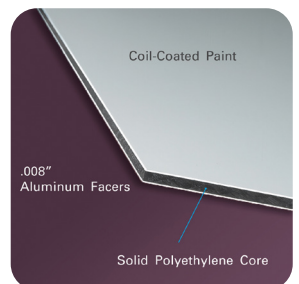• Can be saw cut, routed or punched

Coil-Coated Paint
.005" Aluminum Facers
Solid Polyethylene Core
EPL-5

Coil-Coated Paint
.008" Aluminum Facers
Solid Polyethylene Core
E-PANEL

DIBOND®

PRODUCT AVAILABILITY

	Gauges	Colors		Sizes
DIBOND	2mm, 3mm, 4mm	White* Jet Black* Ultramarine Blue* British Green* Red* Yellow* *Available in a high gloss or matte finish	Dark Bronze Aluminum Metallic BUTLERFINISH BUTLERFINISH Copper BUTLERFINISH Steel Mirror Mirror Anthracite	49.2" x 98.4" 49.2" x 120.1" 59.1" x 120.1"
E-PANEL	2mm, 3mm, 4mm, 6mm	White, Brushed Silver, Mill Finish (aluminum)		48" x 96", 60" x 120"
EPL-5	3mm	White		48" x 96"

Due to the various facer and foam combinations, please refer to the website for product availability in the desired thickness and size.

DIBOND COLORS AND FINISHES
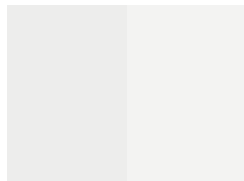
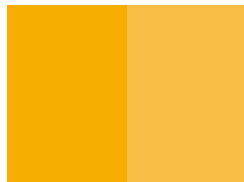White Gloss / White Matte
RAL 9003, RGB 236 236 231
CMYK 0 0 0 0
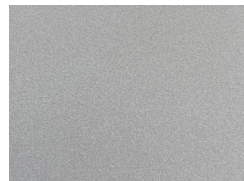
Aluminum Metallic
(replaced Fine Silver)
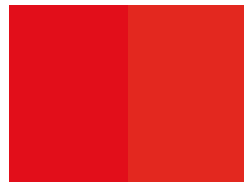RAL 9006, RGB 161 161 160
CMYK 35 30 30 10

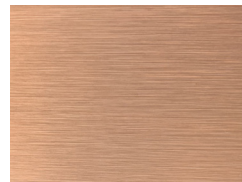BUTLERFINISH / Aluminum Metallic
(replaced Brushed Silver)

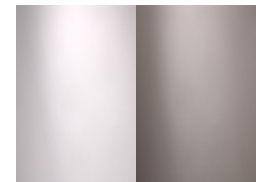BUTLERFINISH Steel / White Matte
(replaced Brushed Stainless)

Yellow High Gloss / Yellow Matte
(replaced Caution Yellow)
RAL 1023, RGB 247 181 0
CMYK 0 25 100 0

Red High Gloss / Red Matte
(replaced Hunter Red)
RAL 3020, RGB 187 30 16
CMYK 0 100 100 10

BUTLERFINISH Copper / White Matte
(replaced Brushed Copper)

Mirror / Mill Finish;
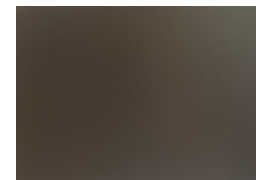Mirror Anthracite / Mill Finish

British Green High Gloss /
British Green Matte
(replaced Dark Green)
RAL 6005, RGB 17 66 50
CMYK 80 5 60 70

Ultramarine Blue High Gloss /
Ultramarine Blue Matte
RAL 5002, RGB 0 56 123
CMYK 100 90 0 10

Jet Black Gloss / Matte
RAL 9005, RGB 14 14 16
CMYK 100 40 50 90

Dark Bronze / Aluminum Metallic
RGB 57 52 47
CMYK 64 62 67 59