



# Product Specification Data

## maxmetal™ 6 MM

### Description

MAXMETAL 6mm is an aluminum composite material, engineered with two pre-painted sheets of .21mm aluminum bonded to a solid polyethylene core. What sets MAXMETAL 6mm apart from other MAXMETAL products is the .21mm thickness of the aluminum face and the thicker polyethylene core. Despite the increased thickness, MAXMETAL 6mm is still light in weight and is more durable than MDO and aluminum.

### Product Properties

Weight (Kg/m <sup>2</sup> )	6.19
Water Absorption % by volume	0.01
Thermal Performance R Values	0.0057
Core Composition	Polyethylene
Flammability	ASTM E 84 Class 1/Class A

### Panel Dimensions

Panel Thickness (mm)	6
Aluminum Thickness (mm)	0.2
Standard Sizes:	4' x 8'

### 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

### Product Code

MM846MW	White
MM846MBK	Black

### Surface Properties

Paint Thickness (micron)	20
Pencil Hardness	>HB
Toughness of Coating	3T
Temperature Resistance	-50°C to +80°C
Impact Strength (kg cm <sup>2</sup> )	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



#### Statement of Practical Use

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