

# Product Specification Data



## Description

MAX-metal™ 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/m <sup>2</sup> )	3.55
Sound Absorption NRC	0.05
Sound Attenuation R <sub>w</sub> db	24
Water Absorption % 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  
MM843MW15

## 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 cm <sup>2</sup> )	42
Boiling Water Resistance	Boiling for 2 hours without change
Acid Resistance	Immersed surface in 2% HCl 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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