



# Product Specification Data

## maxmetal™ HEAVY DUTY

### Description

MAX-metal™ HD is an aluminum composite material that is comprised of two .30mm aluminum sheets bonded to a solid polyethylene core. Although MAX-metal™ HD sets itself apart from other MAX-metal™ products due to its aluminum sheets being twice as thick as standard MAX-metal, it is still extremely durable and has a finish ready for your application.

### Product Properties

Weight (Kg/m <sup>2</sup> )	4.08
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)	0.3
Standard Sizes:	4' x 8'

### Product Code

MM843MWHD 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

### 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

We believe the information on this product to be accurate. However, since we cannot anticipate or control the conditions under which this information or our products may be used, we cannot guarantee results obtained through their use. Tests of our products should be made by users to determine the suitability of these products for a specific purpose. The products are sold without warranty, either express or implied. The purchaser should refer to Grimco, Inc's price list for terms and conditions of sale, including disclaimer of warranties and limitation of liability.

