

# Steel Composite Specification Sheet

## PRODUCT DESCRIPTION

AmeraCore steel composite uses a polyethylene core with galvanized steel facers on each side. AmeraCore steel composite is an ultra-smooth, maintenance-free and long-lasting product that is excellent for all types of printing, painting, mounting and vinyl wrapping. Available in digital and dry erase

## TOLERANCES

Thickness	± 0.2 mm
Width	± 2 mm
Length	- 0 / + 4 mm
Diagonal	± 5 mm
Steel Thickness	± 0.02 mm
Thermal Expansion	2.4mm/m @ 100°C Temp Difference

## PANEL DIMENSIONS

Panel Thickness	3mm
Steel Thickness	.010
Standard Sizes	48"x96", 48"x120"
Weight - lbs/ft <sup>2</sup>	<u>3mm</u> 1.42

## TECHNICAL PROPERTIES

	<u>3mm</u>
Rigidity - kNcm <sup>2</sup> /m	2700
Flexural Module - Mpa	25000
Heat Coefficient - W/m <sup>2</sup> K	5.61
Steel Treatment	Zinc Galvanized
E-module - N/mm <sup>2</sup>	70.000
Penetrating Strength - KN	26
Shear Strength - Mpa	76
Core, Black PE - g/cm <sup>3</sup>	0.92
Flammability BS476	Part 6: Class 0, Part 7: Class 1

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.

## SURFACE PROPERTIES

Paint Thickness	20µm - Enhanced Digital Polyester
Acid Resistance	Immerse surface in 2% HC1 for 48h no 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
Gloss Value	35% Matte / 95% Gloss (Tolerance ± 5%)
Pencil Hardness	>HB
Temperature Resistance	- 50°C to + 90°C
Color Variation	5 year ΔE 3
Chalking	5 year index 8
Outdoor Durability	5 year warranty
Indoor Durability	10 year warranty

 **MADE IN USA**

## GET IN TOUCH

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