

## STANDARD PANEL 3-13



**Panel Face:** a<sup>3</sup> CeramicSteel – 0.56 mm of steel enameled in porcelain with one finished side 0.84 mm total thickness

**Panel Core:** Medium Density Fiberboard – 12 mm of water-resistant MDF

**Panel Back:** Galvanized Steel – 0.4 mm thick cold rolled galvanized steel

**Adhesive:** Hot Melt Polyurethane

**Edge Treatment:** None

Panel Property	Testing Standard	Unit	Value
Panel thickness	EN 438-2 : 5	mm	13.4 ± 0.4
Length tolerance	EN 438-2 : 6	mm	0.1%
Width tolerance	EN 438-2 : 6	mm	0.1%
Squareness	Measured difference in diagonals on a 3050 x 1200 mm panel	mm	± 3
Minimal edge covering (framing system)		mm	6
Flatness	EN ISO 28722 (§5.7)		Max. 0.15% deflection on the largest diagonal or to the diameter of the panel
Weight		kg/m <sup>2</sup>	26
Density		g/cm <sup>3</sup>	1.9

a <sup>3</sup> CeramicSteel Surface	Testing Standard	Unit	Value
Gloss – Type G	ISO 2813 ASTM D 523	Gloss units (GU)	65 ± 10 GU (20°)
Gloss – Type M	ISO 2813 ASTM D 523	Gloss units (GU)	60 ± 10 GU (60°)
Color tolerance	ISO 7724 ASTM D 2244-02	ΔE <sup>94</sup>	ΔE <sup>94</sup> ≤ 1.5 (compared to reference sample)
Reflectance	ISO 7724 ASTM D 2244-02	%	Y-Value up to 93%, depending on color
Orange peel	ISO 2813 ASTM D 523		Short wave (SW) ≤ 55 Long wave (LW) ≤ 25 Distinctness of image (DOI) ≥ 60
Defect appearance	EN 438-2:4		Free from defects liable to change the general appearance of the panel
Mohs hardness	EN 15771		Min. 5
Scratch resistance	ISO 15695	N	Min. 7
Pencil hardness	ASTM D-3363		> 9H
Wear resistance	ASTM C501	g	Max. 0.1 (abrasive S33 1 kg/1000 rev)
Impact	ISO 4532		No damage over 2 mm after 24 h (20 N load)
Coating adhesion	EN 10209 Annex D		Min. class 2
Porosity	EN14430	#/m <sup>2</sup>	< 10 (1800 V)
Cold acid resistance	ISO 28706-1-9		Min. class A
Boiling acid resistance	ISO 28706-2-10	g/m <sup>2</sup>	Max. 18.5
UV resistance	ISO 4892-3 (cycle 2)	ΔE <sup>94</sup>	ΔE <sup>94</sup> ≤ 0.5 (2000 h)
Color stability	ASTM C 538	ΔE <sup>94</sup>	ΔE <sup>94</sup> ≤ 5 (24 h)
Graffiti resistance	EN ISO 28722 (§7)		No color or gloss change after cleaning

### This panel conforms to the following internationally recognized standards:

ISO 28722, Vitreous and porcelain enamels – Characteristics of enamel coatings applied to steel panels intended for architecture

European Enamel Authority, EEA 7.13, 7.14 – Quality requirement for architectural panels

European Normalization, EN 14431 – Vitreous and porcelain enamels – Characteristics of the enamel coatings applied to steel panels intended for architecture

Porcelain Enamel Institute, PEI 1001 – Specifications for architectural porcelain enamel

[polyvision.com](http://polyvision.com)

©2017 PolyVision Corporation. All rights reserved. Trademarks used herein are the property of PolyVision Corporation or of their respective owner. PolyVision Corporation reserves the right to make changes in product design, construction, or detail, and to discontinue any product or material without notice.

08-14-17 ENG