Panel Face: a³ CeramicSteel – 0.56 mm of steel enameled in porcelain with one finished side 0.84 mm total thickness
Panel Core: Medium Density Fiberboard – 9 mm of of water-resistant MDF
Panel Back: Aluminum – 0.4 mm thick aluminum sheet
Adhesive: Hot Melt Polyurethane
Edge Treatment: High Build, high solids siloxane coating

Finishing Details

Panel Thickness: 10.4 ± 0.4 mm
Length Tolerance: 0.1%
Width Tolerance: 0.1%
Squareness: ± 3 mm
Minimal edge covering (framing system): 6 mm
Flatness: Max. 0.15% deflection on the largest diagonal or to the diameter of the panel
Weight: 13 kg/m²
Density: 1.3 g/cm³

Material Property Testing Standard Unit Value
Panel thickness EN 438-2 : 5 mm 10.4 ± 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 3000 x 1185 mm panel mm ± 3
Minimal edge covering (framing system) mm 6
Flatness EN ISO 28722 (§5.7) kg/m² 13
Weight Density g/cm³ 1.3

a³ 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 ΔE²⁰ 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
Impact EN 438-2:4 No damage over 2 mm after 24 h (20 N load)
Defect appearance EN 15771 Min. 5
Mohs hardness EN 15695 N Min. 7
Scratch resistance ASTM D-3363 g > 9H
Pencil hardness ASTM C501 g Max. 0.1 (abrasive S33 1 kg/1000 rev)
Moisture resistance ASTM C 538 g Max. 0.1 (abrasive S33 1 kg/1000 rev)
Impact 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

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