

Quadcore[®] insulated Core Sandwich Panel

Glasbord[®] Panel with Surfaseal[®] On Quadcore[®] Insulation

PRODUCT

Hygispan Glasbord[®] Panel with Surfaseal[®] which is backed with Quadcore[®] insulated core material.



SURFASEAL[®] FINISH

Surfaseal[®] Is a unique surface treatment that, when compared to ordinary FRP, exhibits up to 10 times cleanability, 6 times the stain resistance and 2 times the abrasion resistance.

PURPOSE

Hygispan Quadcore[®] Panel with Surfaseal[®] are designed for interior wall finishes where a sanitary easy to clean panel is desired.

* ADDITIONAL COLORS ARE AVAILABLE BY QUOTATIONR REQUIREMENT

Design Properties

FRP SURFACE THICKNESS	FRP SURFACE COLOR	PIR PANEL AVAILABLE WIDTH	STEEL SKIN INFORMATION	PIR PANEL FRONT & BACK SKIN THICKNESS
Glasbord with Surfaseal Front: 1.90mm Smooth	WHITE*	1.1m X Custom length	Front & Back Skin: Prepainted Galvanized Steel	Front Skin: 0.6mm Steel
Glasbord with Surfaseal Back: N/A				Back Skin: 0.4mm Steel

Property	Value
Insulation K Value	0.018 W/mK
Steel Faces Yield Strength	min 220N/mm2
Operating temperature range	-40°C ~ +55°C

	Front Value	Back Value	Test Method
Flexural Strength Surface [MPa]	122	N/A	ASTM - D790
Flexural Modulus Surface [MPa]	8363	N/A	ASTM - D790
Tensile Strength Surface [MPa]	48	N/A	ASTM - D638
Tensile Modulus Surface [MPa]	10,342	N/A	ASTM - D638
Barcol Hardness Surface	45	N/A	ASTM - D2583
IZOD Impact Surface [J-mm]	0.75	N/A	ASTM - D256

Property	Front Value	Back Value	Test Method
Gardner impact Strength Surface [J]	4.5	N/A	ASTM - D5420
Surface Burning characteristics	CLASS C	N/A	ASTM - E84
Taber Abrasion resistance Surface [% max Wt. Loss]	0.038	N/A	Taber Test

Thermal Performance					
Core Thickness (mm)	50	80	100	150	200
U Value (W/m ² K)	0.360	0.225	0.180	0.120	0.090
R Value (m ² K/W)	2.778	4.444	5.556	8.333	11.11

Property	Value
Acoustic Performance	(SRI) of Rw=24dB
Core Fire Performance	Up to B-S1 d0 (For 100mm Core)

STORAGE REQUIREMENTS

Hygispan should be stored indoors, panels should be stacked flat and not in direct contact with the floor.

CLEANABILITY TESTING

If Glasbord® Panel with Surfaseal® are heavily soiled, the Glasbord® Panel exhibits up to 10 times more cleanability per MacBeth computer Colorimeter.
Stain resistance test: prolonged direct contact to concentrated ammonia based cleaner exhibited no color change per Macbeth Color Colorimeter.

LIMITATIONS

Near heat source: Hygispan will discolor / debond when installed behind or near any heat source such as cookers, ovens and deep fryers. Do not install near a heat source.
Uneven Floors: Uneven Floors may result in poorly locking panels and other issues.

Hygispan thickness Tolerance	
Nominal thickness	Tolerance
<=100mm	+/- 2mm
>100mm	+/- %2mm

Panel Tolerance	
Nominal	Tolerance
Width	+/- 5mm
Length	+/-10mm

Certification and Compliance	
USDA/FSIS	Surface meets USDA/FSIS requirements
ASTM - D3273 and ASTM - D3274	Surface does not support mold or mildew
ASTM - E84	Surface meets minimum requirements of major maodel building codes for Class C interior wall and ceiling finishes of smoke developed <=450 AS per ASTM - E84
HACCP Certified	Glasbord® Panels are suitable for use in food and beverage facilities that operate in accordance with a HACCP based food safety program.*
Greenguard	Surface has earned Greenguard indoor air quality certification Certificate #15955-410

*Orientation of embossed panels must be installed/ run vertically for any areas that require a sanitary finish under HACCP certification.

