

HYGISPAN®

Hygienic Insulated Panels

PRODUCT CODE: 0420010500604R0103

PIR insulated Core Sandwich Panel

Glasbord® with Surfaseal® Sandwich Panel with PIR Insulation

PRODUCT

Hygispan Glasbord® Panel with Surfaseal® which is backed with PIR 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 PIR Glasbord® 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: 1.30mm Embossed	WHITE*	1.1m X Custom length 1.0m X Custom length	Front & Back Skin: Prepainted Galvanized Steel	Front Skin: 0.6mm Steel
Glasbord with Surfaseal Back: 1.90mm Smooth				Back Skin: 0.4mm Steel

Property	Value
Insulation K Value	0.022 W/mK
Steel Faces Yield Strength	min. 220 N/mm ²
Operating temperature range	-40°C ~ +55°C

Property	Front Value	Back Value	Test Method
Flexural Strength Surface [MPa]	102	122	ASTM - D790
Flexural Modulus Surface [MPa]	4826	8363	ASTM - D790
Tensile Strength Surface [MPa]	41	48	ASTM - D638
Tensile Modulus Surface [MPa]	8274	10,342	ASTM - D638
Barcol Hardness Surface	15	45	ASTM - D2583
IZOD Impact Surface [J-mm]	0.91	0.75	ASTM - D256

Property	Front Value	Back Value	Test Method
Gardner impact Strength Surface [J]	3.4	4.5	ASTM - D5420
Surface Burning characteristics	CLASS C	CLASS C	ASTM - E84
Taber Abrasion resistance Surface [% max Wt. Loss]	0.015	0.038	Taber Test

Thermal Performance					
U Value (W/m²k)	0.406	0.275	0.22	0.146	0.11
R Value (m²k/W)	2.465	3.636	4.545	6.818	9.09
Core Thickness (mm)	50	80	100	150	200

STORAGE REQUIREMENTS

Hygispan should be stored indoors, sheets 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 model 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.

