



HYGISPAN®

Hygienic Insulated Panels

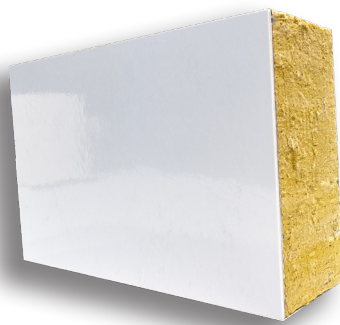
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Rockwool insulated Core Sandwich Panel

Hygispan FireSafe 100mm

PRODUCT

Hygispan Firesafe Glasbord® Panel with Surfaseal® which is backed with Rockwool 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 Firesafe Panel with Surfaseal® are designed for interior wall finishes where a sanitary easy to clean panel is desired.

* ADDITIONAL COLORS ARE AVAILABLE BY QUOTATION

Design Properties

FRP SURFACE THICKNESS	FRP SURFACE COLOR	PANEL AVAILABLE WIDTH	PIR PANEL FRONT & BACK SKIN THICKNESS
Glasbord with Surfaseal Front: 1.90mm Smooth	WHITE*	1.0m X Custom length	Front Skin: 0.5mm Steel Prepainted Galvanized Steel with Zinc Polyester
Glasbord with Surfaseal Back: N/A			Back Skin: 0.5mm Steel Prepainted Galvanized Steel with Zinc Polyester

Property	Value
Insulation K Value	0.044 W/mK
Rockwool Density	100kg/m ³
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		
U Value (W/m²k)	0.365	0.440
R Value (m²k/W)	1.136	2.273
Core Thickness (mm)	50	100

Property	Value	Test Method
Fire Performance 50mm System (when installed as per certificate)	60 minutes insulation, 90 minutes integrity	BS EN 1364-1
Fire Performance 100mm System (when installed as per certificate)	111 minutes insulation, 180 minutes integrity	BS 476 Part 22

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 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
BS 476 Part 22 / BS EM 1364-1	Certificates for Sandwich panels Number PC 230

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

