

Hygienic Laminated Calcium Silicate Boards

HYGIMAT hygienic laminated Calcium Silicate Boards

PRODUCT

Hygimat Calcium Silicate boards laminated with Glasbord with Surfaseal Surface for the highest levels of hygiene.



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

HYGIMAT Calcium Silicate laminated boards with Surfaseal® are designed for interior ceiling finishes where a sanitary easy to clean Wall or ceiling is desired.

* ADDITIONAL COLORS ARE AVAILABLE BY QUOTATION

Design Properties

FRP SURFACE Details	FRP SURFACE COLOR	Backing Material	Size available	Panel Weight kg/m ²	Total laminated Panel thickness
1.90mm Smooth CLASS C	White*	12mm Calcium Silicate	1.20m x 2.44m	14.7 kg/m ²	15.5mm

Property	Value
Operating temperature range	+5°C ~ +40°C

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

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

Backing Details	Value	Test Method
Backing description	Promatech-H is a non combustible matrix engineered mineral board reinforced with selected fibres and fillers. It does not contain formaldehyde and aesbestos.	N/A
Water absorbtion	Promatech-H is resistant to the effects of moisture and will not physically deteriorate when used in damp or humid conditions. Performance characteristics are not degraded by age or moisture.	
Compressive strength [N/mm ²]	11.36	BS 5669: Part 1: 1989
Material Class	Non-Combustible	BS 476: Part 4: 1970
Fire Rating 9mm board (when installed in accordance to the method certified using Fillets)	60 Minutes Insulation and 120 minutes Integrity	BS 476: Part 22
Fire Rating 12mm board (when installed in accordance to the method certified using Fillets)	90 Minutes Insulation and 90 minutes Integrity	BS 476: Part 22

STORAGE REQUIREMENTS

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

CLEANABILITY TESTING

If Glasbord® Panels 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: HYGIMAT 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.

HYGIMAT thickness Tolerance	
Nominal thickness	Tolerance
<=100mm	+/-2mm
Panel Tolerance	
Nominal	Tolerance
Width	+/- 5mm
Length	+/-5mm

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.

