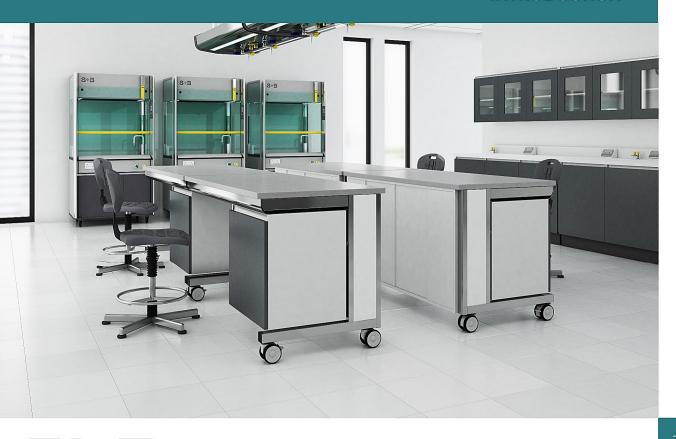
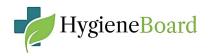


INTRODUCTION





We are proud to introduce you to an alternative construction material with many practical applications - that is a safer and recyclable replacement for MDF, Chipboard, Melamine Board and Plywood. Hygiene Board comes in sheet format from 3mm-32mm that can be machined and finished like traditional materials; but it's SIMPLY BETTER.

The product is a homogeneous material with a foam core made of closed cell PVCU with a hardened skin on both surfaces.

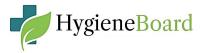
Hygiene Board is non-toxic, formaldehyde free, non-porous and can be used and processed using the same methods as wood-based panel products. The unique properties of Hygiene Board enables unparalleled possibilities for curves, profiles and bends, without affecting its structural integrity.



The construction and manufacturing material of the future NOW!

Moisture Resistant





Suited to both interior and exterior environments, our non-toxic, eco-friendly PVC foam-based Hygiene Board, is a perfect alternative to wood, melamine, chipboard, and MDF due to its moisture resistant properties.

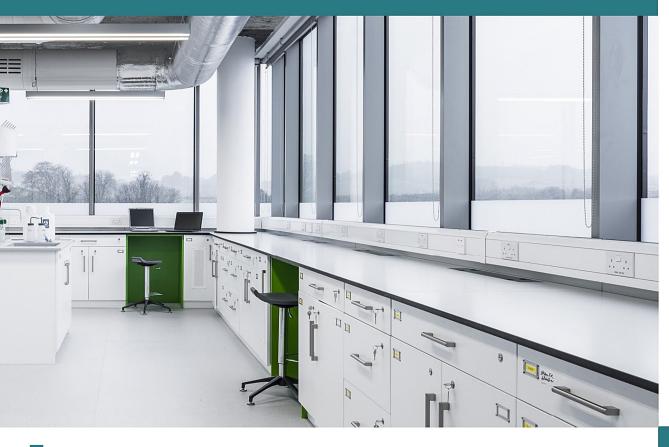
A relatively lightweight yet highly durable lifetime investment product, Hygiene Board complies with European emissions standards and RoHS Standards and is gaining popularity in international markets, as well as South Africa.

Precipitation

Hygiene Boards do not absorb moisture from precipitation and will not deteriorate or degrade in the presence of moisture. Hailstorms may cause damage through the impact of large hailstones on cold panels.

Non-Porous and Impermeable Invulnerable to mold and mildew

Why Hygiene Board is the obvious design and manufacturing choice





Anti Bacterial

Germ and pathogen resistant. An anti-bacterial option is 97% effective against MRSA and E.coli.



Acid Resistant

30 year lifespan with excellent chemical resistance.



100% Recyclable

Formaldehyde-free, non-toxic and entirely recyclable after use.



Moisture Resistant

Moisture resistant, non-porous, impermeable and invulnerable to mold and mildew.



Anti Fungal

Prevents the formation of biofilms on surfaces and the contamination by harmful microbes, such as bacteria and fungi.



Fire Resistant

Excellent thermal properties ensure a naturally fire resistant surface.



Fade Resistant

UV Print, paint, duco, lamination with timber veneer or an HPL Laminate. 100% UV and Fade Resistant.



03

Work Friendly

Machined, saw-cut, CNC-cut, routed, profiled and edged with no special or additional tooling required, yet offers generates less wear and tear on machines and blades.



Product Features





Ultraviolet Resistance

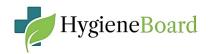
Sunlight affects all materials to varying degrees. The weathering properties of Hygiene Board sheets are excellent but can be further enhanced by increasing the density from 0,50g/cm3 to 0,70g/cm3.

The maximum, in service temperature is between 60°C and 70°C. For exterior use, lighter colours are preferable as darker sheets absorb heat from sunlight and can deform. If used behind glass, ensure adequate spacing is left between the foam sheet and the glass to ensure adequate ventilation.

Precipitation

Hygiene Boards do not absorb moisture from precipitation and will not deteriorate or degrade in the presence of moisture. Hailstorms may cause damage through the impact of large hailstones on cold panels.





Chemical Resistance

The inherent nature of the base PVC polymers has excellent chemical resistance. Resistant to:

Salt Solutions Most Acid Solutions Petrol, alcohol, fats, and oils

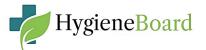
PVC is, in varying degrees, not resistant to organic chemicals containing nitro and chlorine groups, aromatic hydrocarbons, amino compounds and some ethers.

Cleaning and Maintenance

Clean lightly soiled surfaces with water and solvent-free, non-abrasive, and non-scouring liquids.

Heavily soiled boards can be cleaned with methylated spirits, methyl petroleum and alcohol ether solvents. Normal precautions should be taken.

Due to good electrical insulation properties, a static charge could develop during cleaning or handling.



Bonding

Surfaces should be cleaned and free of any residue.

Adhesive Systems

- Solvent or cement solutions of PVC Tetrahydrofuran dimethylformamide etc. containing 10-25% solid content.
- Reaction adhesives. One- or two-part polyurethane or epoxy.
- Contact adhesives using synthetic rubbers such as neoprene.
- Adhesive films.
- Pressure sensitive adhesive tapes.

Fixing Methodology: When fixing PVC foam sheet, the maximum spacing between screws is detailed below:

 2mm 3mm 4mm 150 - 200mr 250 - 300mr 350 - 500mr 	Thickness	Spacing	
 3mm 4mm 250 - 300mr 350 - 500mr 	• 1mm	100 - 150mm	
• 4mm 350 – 500mr	• 2mm	150 - 200mm	
	• 3mm	250 - 300mm	
• 5mm+ 500mm	• 4mm	350 - 500mm	
• Jillili Joolillili	• 5mm+	500mm	









Thickness 3 – 32mm

Density $0.5 - 0.7g/cm^3$

Colour White with other colours available on order

Executive standard QB/T 2463.1-1999

Certificate ISO 9001

Weldable Yes Foam process Celuka

Water saturation ≤1%

Tensile strength12 - 20MPaElongation at break15 - 20%Vicat softening point73 - 76 °CImpact strength8 - 15 Kj/m²

Shore hardness D 75

Flexural modulus of elasticity800 - 900 MPaBending strength12 - 18 MPaLife span>30 years

Flame retardance Self-extinguishing \leq 5 sec.







Thickness	Attenuation
THICKIESS	Attendati

3mm	19dB
5mm	22dB
6mm	23dB
8mm	24dB
10mm	27dB

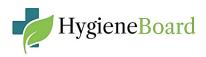
Sound attenuation frequency range 100 - 3 000

Warranty

Manufacturers' warranty available on request.

DATA SHEET

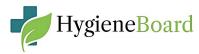




THERMAL	TEST METHOD	UNITS-SI	VALUE
THERMAL	TEST METHOD	UNITS-SI	VALUE
Service temperature	In house	°C	Minus 10-65
Heat distoration temperature	In house	°C	63
Vicat softening temperature	ASTM D-648	°C	75
Coefficient of thermal expansion	ASTM D-648	°C	75
ELECTRICAL	TEST METHOD	UNITS-SI	VALUE
Dielectric strengths	ASTM D-257	Ω	5x10
Surface resistivity	ASTM D-257	Ω-cm	5X1O
FLAMABILITY	TEST METHOD	UNITS-SI	VALUE
EN 13501			B, s1, do
BS 476 part 7			Class 1
UL 94			V-o
NSP 92501,5			M-1, M-2
DIN 4102			B-1
IEC 695.2.1			Self Extinguish
ASTM E-84			Class A

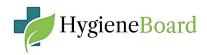
DATA SHEET





PROPERTY	TEST METHOD	UNITS-SI	VALUE
PHYSICAL	TEST METHOD	UNITS-SI	VALUE
Retaltive density	In house	g/cm³	50-72
Water absorption	ASTM-570	%	0.5-0.8
MECHANICAL	TEST METHOD	UNITS-SI	VALUE
Tensile strength at yield	ASTM D-638		
Elongation at break	ASTM D-638		
Flexural strength at yield	ASTM D-790		
Flexural modules	ASTM D-790		
Charpy impact strength	ASTM D-256		
Shore D hardness		Value	n/a

CONTACT US



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