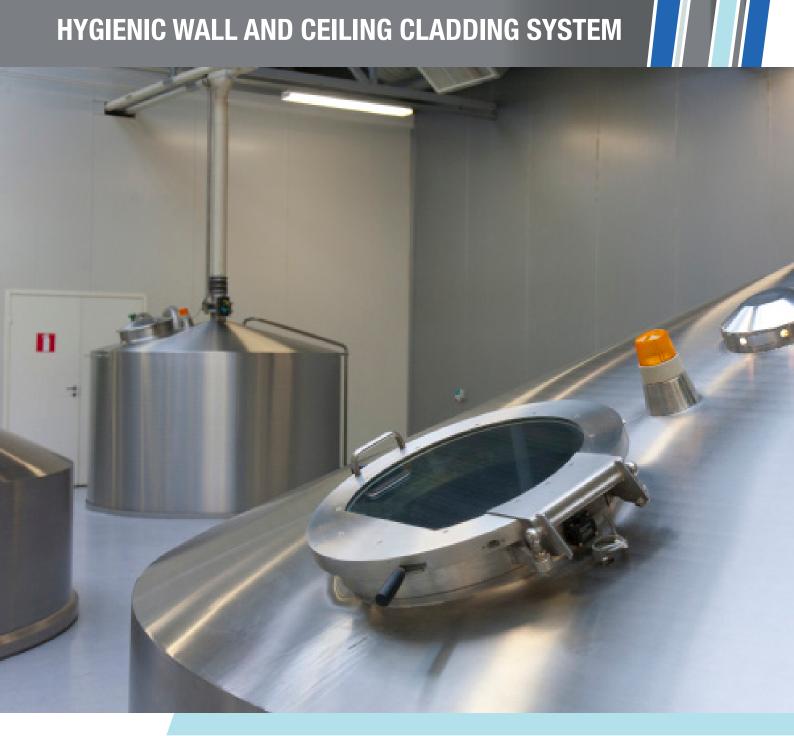


HYGIENIC WALL AND CEILING CLADDING SYSTEM



Multi Surface | Fire rated | self adhesive | zero panel wastage



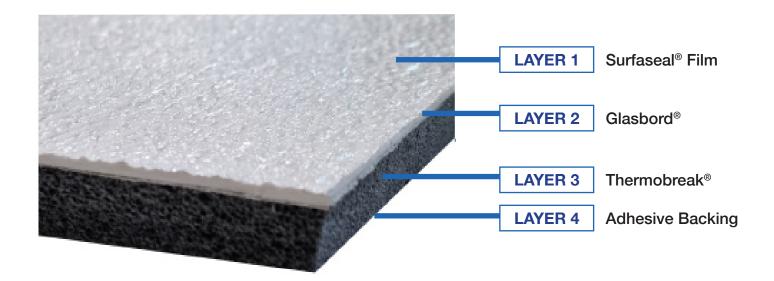






WHAT IS HYGIBREAK

HYGIBREAK is a combination of Crane Glasbord[®] FRP panel coated with Surfaseal[®] film backed with Thermobreak[®] physically crosslinked insulation to make a unique cladding self adhesive direct fix panel.



BENEFITS OF HYGIBREAK

- Lifetime non-corrosive surface.
- Unique Surfaseal[®] finish making it the most hygienic offering in the industry thanks to the high stain resistance and ease of cleaning.
- The Surfaseal[®] film provides a vapor barrier preventing transfer of spores.
- Unique HACCP and UL GREENGUARD Gold certified for low chemical emissions to decrease indoor pollution levels.
- Fire rated surface: Class C, Class A (UL) and FM Global.
- Faster to install compared to traditional FRP thanks to Thermobreak[®] backing adhesive.
- Chemically resistant surface that outlasts problems caused by the repetitive and excessive cleaning.
- Pore free surface: will not trap soil, bacteria, moisture and water. Mold and mildew free.
- Lowest cost of ownership due to the low cost of maintenance that provides the highest ROI over time.



*THAN OTHER FRP BRANDS







Cold Stores

Food Plants

Kitchens



Cleanrooms



Hospitals



Supermarkets



Educational Facilities



Offshore Accomodations



BOH Corridors

INDUSTRY CERTIFICATIONS ACCP INTERNATIONAL ROG FM 0 ſ. APPROVED

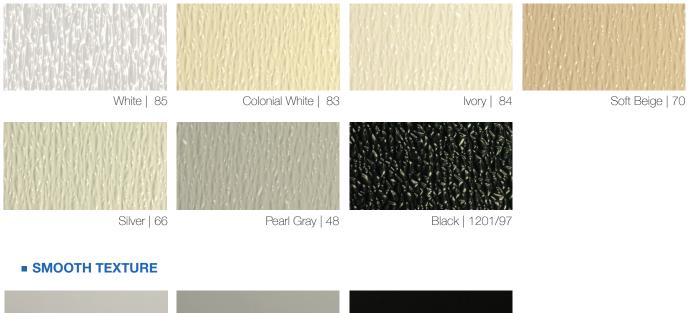
INDUSTRY COMPLIANCE





SURFACE COLOR OPTIONS

PEBBLED EMBOSSED TEXTURE





*AVAILABLE IN CLASS C PER ASTM E-84 AND CAN/ULC-S102 ONLY

WHY GLASBORD[®] WITH SURFASEAL[®]?

- Setting the industry standard since 1954.
- The only FRP panel with ironclad technology patented by Crane Composites under the name of Surfaseal[®] thanks to the high fiberglass content and the Surfaseal[®] film.
- Ideal Hygienic Wall Cladding and Ceiling tiles for critical areas where both Hygiene and Durability are required .
- The Surfaseal[®] film makes Glasbord[®] easier to clean and up to 6 times more stain resistant than other FRP panels.
- UL GREENGUARD and HACCP certified.
- Fraunhofer[®] TESTED DEVICE certified for use in cleanrooms (Glasbord[®] smooth finish FM fire rated).
- Fire rated for flame spread and smoke development when tested per ASTM E-84: Class C and Class A.
- The only FRP panel with FM global certification for FM certified buildings.
- Available in 12 standard color with possibility to customize to any RAL color.

• Thermobreak[®] is the leading and most innovative Polyolefin foam thermal insulation available to the HVAC and building industry worldwide. Thermobreak[®] performance is unsurpassed.

- Thermobreak[®] thermal insulation is an all-in-one closed cell physically crosslinked Polyolefin foam that is manufactured in compliance to ASTM C1427 standard.
- Thermobreak[®] is manufactured using proprietary physcially crosslinked Polyolefin foam technology, invented and commercialised by the Sekisui Chemical group in Japan. The technology allows crosslinking of the Polyolefin without the use of chemical agents. Instead the Sekisui process utilises clean and precise crosslinking through irradiation (physical) means.
- Sekisui has been manufacturing crosslinked Polyolefin foam since 1967. Today Sekisui foam division is the largest and leading crosslinked polyolefin foam manufacturer in the world.

SUPERIOR THERMAL PERFORMANCE FOR ENERGY SAVINGS

Our unique physically crosslinked technology results in a smaller and more evenly distributed cell structure. Cell structure directly affects thermal conductivity and vapour permeability. Both are key factors in insulation performance.

Thermal Conductivity: 0.032 W/mK (23 C)

The lowest of any flexible insulation material.

Vapour permeability of almost Zero

Ensures the thermal conductivity remains relatively constant for an extended period of years thus significantly contributing to building sustainability and energy cost reduction.

COMPLIANCE TO INTERNATIONAL FIRE & SMOKE STANDARDS

Thermobreak[®] has been tested and complies to international fire and smoke standards including:

- BRITISH (BS 476 CLASS 0)
- ASTM (ASTM E-84)
- UL 94 (HF-1)

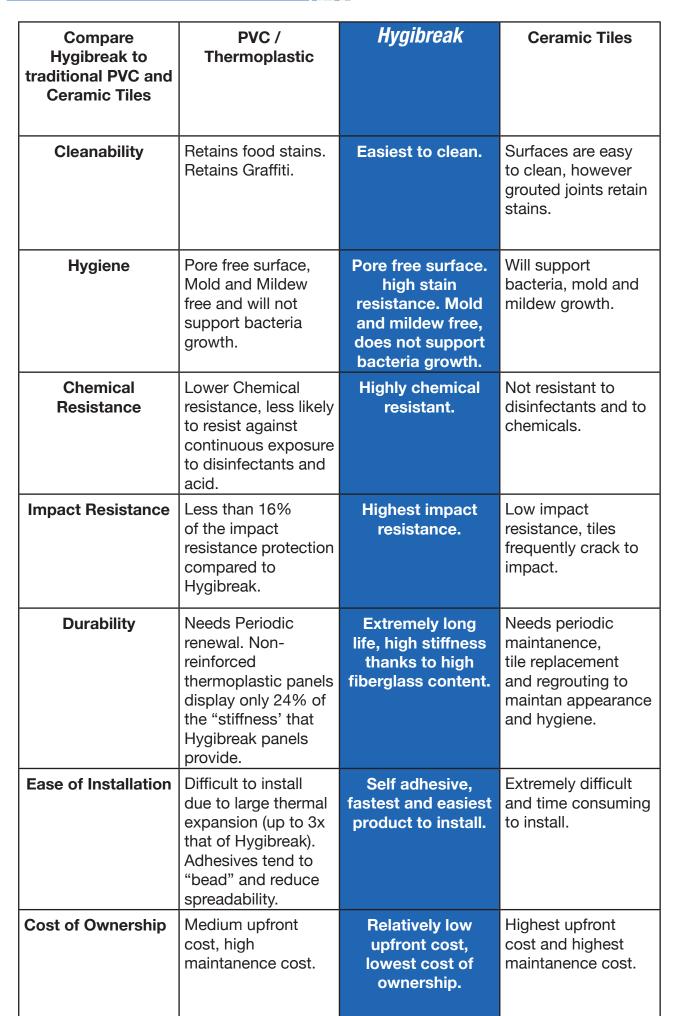
BUILDING SUSTAINABILITY

- Green star compliant (VOC)
- NO CFC's or HCFC's
- Zero Ozone depletion potential
- Low GWP
- Compliance to RoHS directive
- Compliance to REACH directive
- Resistance to Mould Growth
- Non-allergenic properties

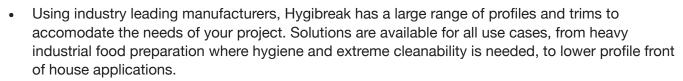




HYGIBREAK VS OTHER SOLUTIONS



PROFILES AND ACCESSORIES



Profiles available: (PVC, Polypropylene)

- Division Bars
- Internal Corners
- External Corners
- Wall to Floor Base profile (high impact resistance)
- Wall to Ceiling Internal Corner
- End caps for panels

Speciality profiles:

- Rubber bump rail
- Column guard rails

Stainless Steel range is also available





• Hygibreak suspended ceiling tiles are available for a unique, easy clean, insulating system.

- Using World renowned Suspension ceilings.
- Panels are backed with 12mm-20mm Thermobreak backing with Aluminium Foil facing to protect from above ceiling leaks and conditions.
- Can provide Acoustic insulation, with NRC values up to 0.9.
- Can provide fire rating up to 4 hours.

Suspension grids are available in 3 types:

- Standard
- High corrosion resistance
- Clean room specification









PHYSICAL PROPERTIES

Composition	Glasbord [®] FRP Panel coated with Surfaseal [®] film backed with
	Thermobreak [®] physically crosslinked Polyolefin foam and pealable self
	adhesive layer.
Thickness	From 4mm up to 70mm
Size availability total composite	4mm-10mm 50m x 1200mm rolls
	12mm-20mm20m x1200mm rolls25mm-70mm2300mm x1200mm sheets
	*sheets can be cut to size as per requirement
BACKING: THERMOBREAK [®] 4MM POLYOLEFIN FOAM	
Material	Physically (irradiation) crosslinked closed cell Polyolefin foam
Density	25kg/m3 (foam core only)
Thermal conductivity (ASTM C518)	0.032 W/mK (@23 C mean temp)
	0.036 W/mK (@36 C mean temp)
Water vapour permeability	2.78 x 10-14 kg/Pa.s.m
Water absorbtion by volume	<1% v/v
Permeability resistance factor	u> 7000
Resistance to fungi (ASTM G21)	Zero Growth
Operating temperature range	-60 C ~ +55 C
SURFACE: GLASBORD [®] EMBOSSED 2.3MM CLASS C	
Flexural strength	56 MPa
Flexural modulus	3034 MPa
Tensile modulus	4137 MPa
Tensile strength	33 MPa
Barcol hardness	27
Izod impact	0.59 J/mm
Gardner impact strength	3.4 J
Water absorbtion	<0.16 % v/v
Taber abrasion resistance (CS17 wheels,1000g, Wt 25 cycles)	0.01% max wt. loss

**other thicknesses of glasbord® are available upon request

Distributor in Oman: Trust for Global Business Edy Slim: +96899312993 Tel: +974 4144 1800 || Email: info@ftc-qatar.com || Web: www.ftc-qatar.com