CRYSTAL HYGIENIC SHEETS & COILS

HYGIENIC WALL & CEILING SHEETS & COILS

Glasbord® with Surfaseal®

C CRYSTAL®
HYGIENE SOLUTIONS

CRYSTAL-HYGIENIC SHEETS & COILS

HYGIENIC WALL & CEILING **SHEETS & COILS**

Glasbord® with Surfaseal®

PRODUCT DESCRIPTION

Crystal-Hygienic Sheets & Coils with Surfaseal® creates surfaces that deliver unsurpassed hygiene and durability for commercial environments such as restaurants and food processing plants.

Crystal-Hygienic Sheets & Coils Made of fiberglass reinforced plastic (FRP), Glasbord with Surfaseal is extremely moisture-resistant and non-porous.

The Surfaseal film finish, found only on Glasbord, provides a barrier that's highly resistant to impact and scratching. Because of its unique process, the Surfaseal finish will not trap soil or bacteria on the panel.

The surface is up to 10 times easier to clean and up to six times more stain resistant than other sanitary wall systems.

The sturdy panels, which come in both pebbled and smooth textures, hold up under frequent maintenance cycles.

SHEETS

COILS

LASTS A LONG TIME | MORE DURABLE FINISH | EASIER TO CLEAN | HYGIENIC MOLD + MILDEW FREE | BIOLOGICAL RESISTANCE

BENEFITS

The surface is bright and clear as well as easy to clear its dirt and it has a good capacity to keep the color of surface to be bright and fresh.

The Surfaseal® film gives the product a good chemical stability to atmosphere, water, ordinary acid, alkaline & salt.

- HACCP certified
- Fire rated for flame spread and smoke development when tested per ASTM E-84. Available in Class C, Class A (UL) & FM
- UL GreenGuard Gold for low chemical emission and indoor air quality decreasing indoor pollution levels
- Lifetime non-corrosive surface
- Comply with the Food Safety and Inspection Service (FSIS)
- Unique Surfaseal® film found only on Glasbord® panels that provides highest stain resistance and ease of cleaning
- Chemical resistant including repetitive cleaning
- Moisture & humidity resistant, mold & mildew free
- Vapor barrier protection preventing transfer of spores
- Robust panel with resistance to impact and scratches
- Pore free surface, will not trap soil or bacteria
- Easy and quick to install with no mechanical fixation
- Good insulation characteristics
- Light Weight
- Non-absorbable surface

Its characteristics give the products many advantages, such as smooth surface, keeping bright and fresh color in long time, anti-corrosion & sunshine as well as anti-ageing.

APPLICATIONS:

- Food and Beverage industry (meat processing industry, slaughterhouses, poultry, dairy industry, Fisheries, restaurants, Industrial kitchens etc...)
- Refrigerated warehouses / Cold Storage
- Pharmaceuticals industry / Clean Rooms
- Medical Device Assembly
- Healthcare/Hospitals
- Hotels / Schools / Public Buildings / Health Clubs
- Changing rooms, Toilets and Showers
- Research Labs / Biotechnology
- Car washes
- Prefabricated house walls
- Partition walls

CERTIFICATIONS:

FM APPROVED	GREENGUARD	USDA/FSIS	HAACP	UL	ASTM D3273/D3274
Factory Mutual Approval	GREENGUARD Certification is part of UL Environment	US Department of Agriculture and Food Safety & Inspection Service	Hazard Analysis Critical Control Points	UL Certificate of Compliance	FRP Does not support Mold or Mildew

Fire-X Glasbord (FXE and FSFM) is the only fiberglass reinforced interior wall and ceiling panel that is approved under FM Approvals Standard FM 4880 (Plastic Interior Finish Materials).

Product installations should be in accordance with FM Approvals Standard FM 4880.

Glasbord panels are the first FRP panels that are HACCP certified. Hazard Analysis Critical Control Point (HACCP) certifies that Glasbord panels are suitable for use in food and beverage facilities that operate in accordance with a HACCP based Food Safety Program.

PRODUCT SPECIFICATIONS

- **Textures:** Pebbled embossed texture 2.3 mm
  Smooth texture   1.9 mm

- **Size Options:** 4'x8'   (1.22 x 2.40 m) OR 4'x10' (1.22 x 3.05 m)
  (You can ask for the availability of other sizes)
  (Length can be as per client request)

- **Available Colors:** White   • **Fire Retardant:** Class A / C

Note: This High-performance panels are used internally.

PHYSICAL PROPERTIES

   Glasbord® with Surfaseal is a durable, flexible, interior wall panel of fiberglass Reinforced Plastic (FRP). The panel has a Class C rating for flame spread and smoke development. It will not mildew, rot, or corrode and exhibits excellent resistance to mild chemicals & moisture.

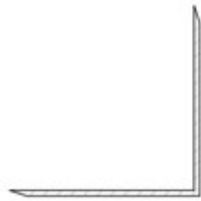| Property	Typical Value 2.3 Mm Thickness	Test Method
Flexural Strength	59 MPa	ASTM D790
Flexural Modulus	2413 MPa	ASTM D790
Tensile Strength	34 MPa	ASTM D638
Tensile Modulus	4137 MPa	ASTM D638
Barcol Hardness	35	ASTM D2583
Izod Impact Strength	0.37 J/mm	ASTM D256
Gardner Impact Strength	1.81 J/mm	ASTM D3029
Coefficient of Linear Thermal Expansion	29 Ïm/m $^\circ$C	ASTM D696
Water Absorption (%)	0.16%/24 hrs @250C	ASTM D570
Specific Gravity	1.8	ASTM D792
TR Value	0.018 hr m2 $^\circ$C/kcal	ASTM D177
Surface burning characteristics	Class C	ASTM E84
Taber Abrasion Resistance (cs-17 wheels, 500 g. wt., 25 cycles)	0.038% max wt loss	Taber Abrader

DIFFERENT APPLICATIONS:

- Top hygiene through preventing the formation of condensation and mould and the adhesion of germs and bacteria.
- Effective ease of cleaning through pore-free surface treatment with Surfaseal®.
- The glassfibre-reinforced synthetic resin is impact- and corrosion-resistant as well as hardwearing high stability on exposure to acids and alkali.

ASSEMBLY ACCESSORIES:

For professional looking panel installations, and maximum moisture sealing effectiveness, use accessories & moldings.
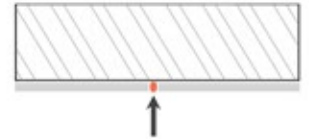

PVC INSIDE CORNER

STAINLESS STEEL
OUTSIDE CORNER

STAINLESS STEEL
KERBS FILLED
WITH GROUT

JOINT SEALANT
TO FILL THE JOINT
BETWEEN THE PANELS

SMOOTH TEXTURE

PEBBLED EMBOSSED TEXTURE

ACCESSORIES AND MOLDINGS

ASSEMBLY ACCESSORIES

INSIDE CORNER

FEATURES

• Solid PVC support.
• PVC top with flexible lips for perfect adjustment.
• Easy assembly.
• Fastening system with hidden screws.

INTERNAL COVE CORNER

FEATURES

• Internal piece provides a practical, smooth, neat and hygienic 3-ways corner
• Easy assembly.

END PIECE

FEATURES

• Used as a cap at the end point
• Easy assembly.

EXTERNAL COVE CORNER

FEATURES

• External piece provides a practical, smooth, neat and hygienic outside corner
• Easy assembly.

PVC COVED SKIRTING

FEATURES:

• Hygienic protection of wall panels
• Protection against water infiltration to the wall panels
• Avoidance of hollow spaces that can contain bacteria
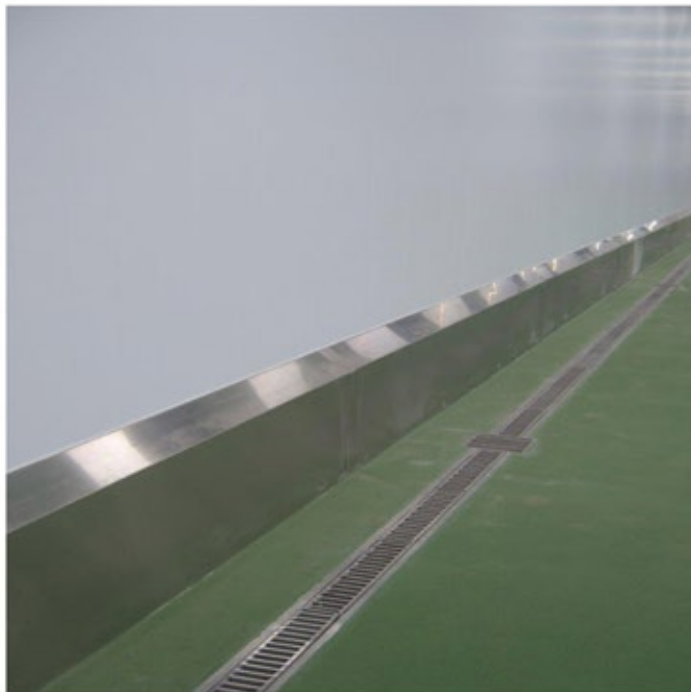• Skirting of the wall/floor and wall/kerb junction.

STAINLESS STEEL KERBS

FEATURES:

• Hygienic & mechanical protection against heavy transport of wall panels in the food industry.
• Protection against water infiltration to the wall panels.
• Avoidance of hollow spaces that can contain bacteria.
• Application: Protection of panel walls against forklifts in production areas, refrigerators, despatch areas,...

S.S OUTSIDE CORNER

FEATURES

• Stainless Steel Corner profile sized 50 x 50 mm for joining two corner Panels
• Easy assembly.

JOINT SEALANT

FEATURES:

• Elastic bonding between surfaces
• Fast curing and Good applicability and toolability
• Fungis resistant connection
• Resistant to high-pressure cleaning
• Good weather and UV resistance
• Excellent resistance to many chemicals

MOLDINGS and ACCESSORIES

STAINLESS STEEL BOLLARDS

STAINLESS STEEL SAFETY BARRIERS

FEATURES

• Protection for sliding doors and gates, machines, etc...
• High quality stainless steel AISI 304 L (316 L on request)
• Extra solid by concrete core
• Safe / Robust / High-quality finish

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DIFFERENT APPLICATIONS:

KITCHEN AND CATERING

KITCHEN AND CATERING

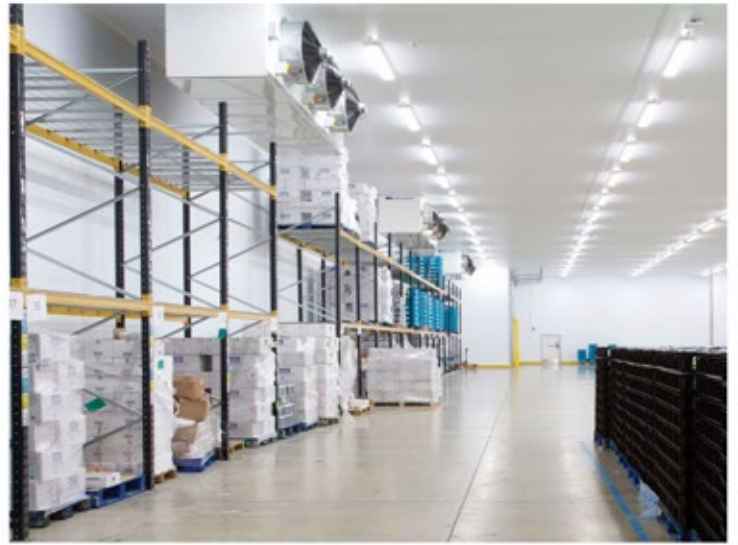FOOD PLANT

SLAUGHTERHOUSES

DIFFERENT APPLICATIONS:

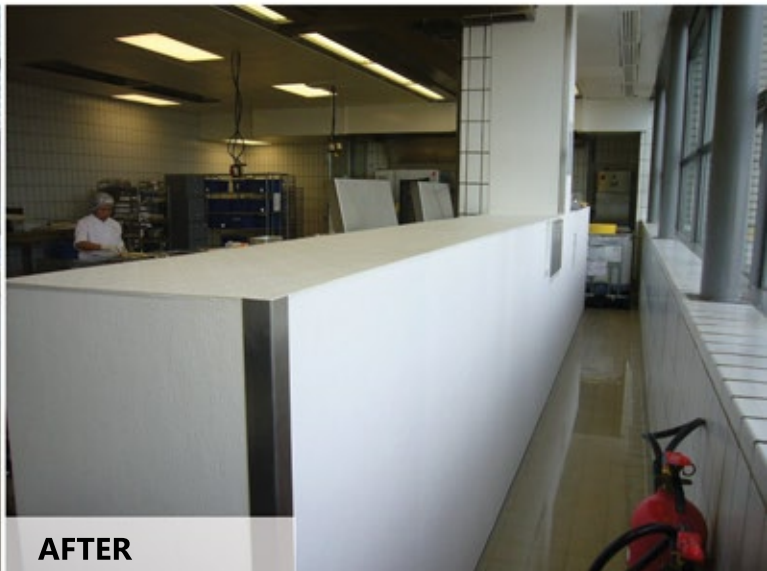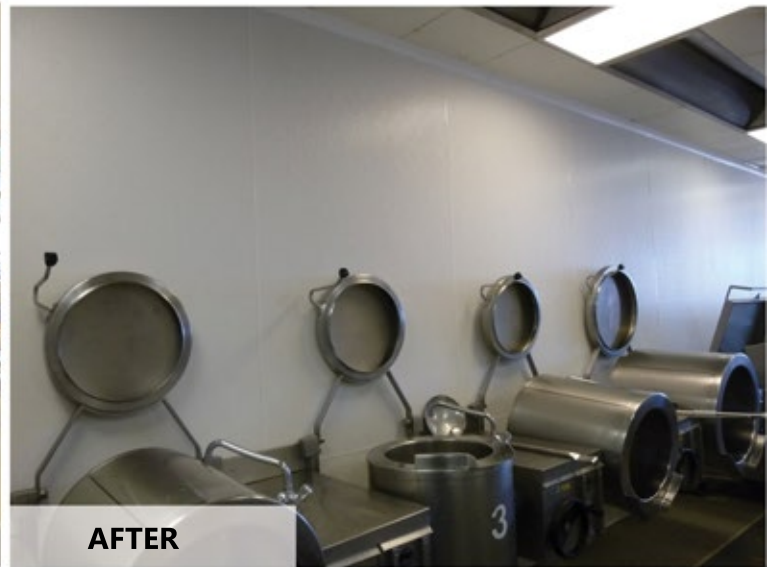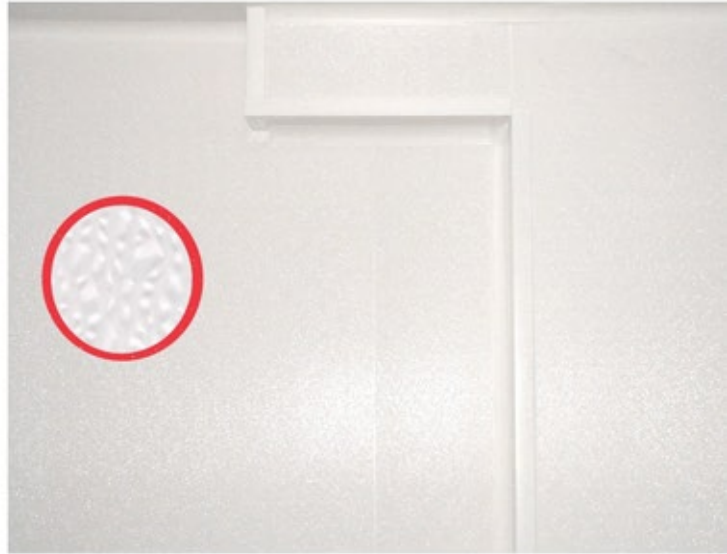FOOD PRODUCTION

HOSPITAL KITCHEN

KITCHENS

COLD STORAGE

COLD STORAGE

COLD STORAGE

EASY SOLUTION:

BEFORE

AFTER

BEFORE

AFTER

BEFORE

AFTER

DAMAGED CASES:

CRYSTAL

HYGIENE SOLUTIONS

CRYSTAL-HYGIENIC SHEETS & COILS

HYGIENIC WALL & CEILING **SHEETS & COILS**

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