

HYGIENIC WALL + CEILING SYSTEM for Food Processing + Cold Storage Facilities



FOOD PROCESSING | PACKAGING PLANTS | COLD STORAGE | COMMERCIAL KITCHEN

GLASBORD.
Wall Panels with SURFASEAL® Finish

"Our food processors in Europe have been satisfied and confident in GLASBORD's proven solutions for decades. For industry professionals considering facility upgrades, expansions, or new plants, a glimpse into our customers' successful facilities can assure those who haven't yet discovered the high value of GLASBORD with Surfaseal that the system will perform for years to come."

Jörg Helbig

Hydewa GmbH | Managing Director, Technical & International Sales



there is more to **frp** than ever before

why **frp**? where **frp**?

protect your facility

Our GLASBORD with Surfaseal offers unsurpassed hygiene for any application. We offer FRP and seam sealant that provides a protective system with reduced maintenance seams. Our products stand up to frequent wash downs with chemicals and antibacterial cleaners. Our products create a protective envelope with high performance finishes for food processing and cold storage applications. That's where our all-in-one hygienic wall panel solution comes in. Our products are certified by HACCP and meet the food processing guidelines of FSMA, USDA, FDA and FSIS.

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 is highly resistant to impact and scratching. Because of its unique process, the Surfaseal finish will not trap soil or bacteria on the panel. The panels perform well under frequent wash-downs.

Complete transitions with our polyurethane seam sealant that provides a nearly seamless surface and builds a permanent seal preventing any growth of mold and mildew. Using the seam sealant reduces maintenance needs as it does not have to be replaced like traditional silicone.

We are partnered with insulated panel manufacturers that have options for temperature-controlled applications requiring hygienic SIPs panels.



THERE'S NO BETTER OPTION

The Crane Composites Hygienic Wall Solution delivers superior overall performance in the following categories:



**CHEMICAL
RESISTANCE**



**IMPACT
DURABILITY**



**EASY TO
CLEAN**



**MOLD +
MILDEW FREE**



**HACCP
CERTIFIED**



**LOW
MAINTENANCE**



**FIRE RATED
WALL INTEGRITY**



**EASY TO
INSTALL**



**BULK WATER
MANAGEMENT**



**VAPOR BARRIER
PROTECTION**

protect your facility with the complete **CRANE** hygienic wall + ceiling panel system

GLASBORD

Embossed + Smooth, Wall + Ceiling Panels

It's a dirty world out there. Protect your facility with Crane resilient wall coverings. Our GLASBORD with Surfaseal creates surfaces that deliver unsurpassed hygiene and durability. Available in a Class A or Class C per ASTM E-84 fire rating and FM Approved formula.



POLYURETHANE SEAM SEALANT

For Seamless GLASBORD Panels

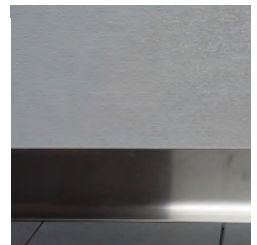
Seam Sealant is an equal-mix, two-component bright white urethane sealant system used to bond and seal a variety of plastics. Use for a seamless GLASBORD installation that is easy to clean.



SANI-BASE™

Seamless Wall to Floor Transition

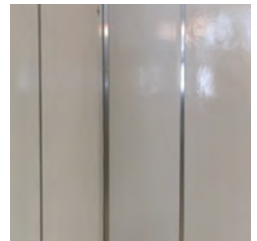
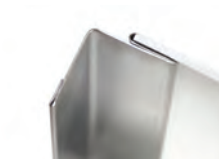
Use Sani-Base stainless accessories for innovative moisture mitigation solutions for seamless wall to floor transitions. Our Sani-Base accessories are available in five different profiles to fit your application needs.



STAINLESS TRIMS

Steel Trims for Corners + Window Frames

Stainless steel trim pieces are the answer to having a sanitary, durable and clean transition while providing increased impact resistance and longevity to develop a more aesthetically pleasing finish.



CRANE ADHESIVE

Two FRP Adhesive Options

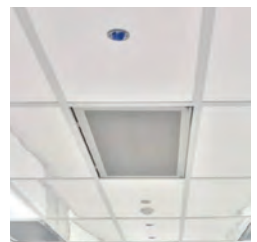
Crane's Fast Grab and Advanced Polymer adhesive offers professional strength and is specifically formulated for the installation of FRP panels over most porous surfaces. It offers quick grab and strength development that requires minimal bracing.



SANIGRID®

Fire-Rated Fiberglass Ceiling Grid System

Sanigrid is known for its moisture and corrosion resistance in high humidity installations. It won't rust, pit, dent, or peel like metal grid systems.



discover the difference

For food processing and cold storage owners that need to control the spread of moisture, mold and pest contaminants in fire rated buildings, Crane Composites' Hygienic Wall Solution provides enhanced durability, bulk water and air infiltration resistance unlike PVC plank and IMP alternatives. This superior solution is comprised of a sealed wall solution, complete with wall panels, steel transitions and urethane sealants.



Chemical Resistant
10X MORE DURABLE

Chemical resistance is an important factor when considering the longevity and durability of wall solutions in food processing facilities. Food processing facilities must endure constant cleaning cycles with abrasive cleaners, frequent wash cycles, and harsh chemicals. Crane Composites has conducted extensive chemical compatibility testing on a variety of commonly used cleansers in the food processing and chem/pharma industries to ensure fit-for-use in these applications.

Based on an internal chemical exposure test, GLASBORD FRP is more than 100 + more resistant to harsh chemicals such as hydrogen peroxide than IMP. Crane Composites' tests consisted of exposing GLASBORD FRP samples to several chemical cleansers for a period of 5 days at 77°F +/- 10°F. Ratings were based on a combination of visual observations and mechanical strength test results.

100x+

more resistant

CHEMICAL EXPOSURE TEST

GLASBORD FRP
OVER 5/8" GYPSUM

0.5%

INSULATED
METAL PANEL

88.7%

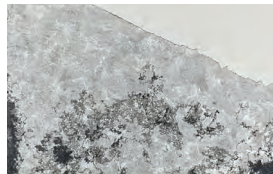
PER INTERNAL STANDARD OPERATING PROCEDURE
WHEN SUBMERSED IN 30% DILUTION OF HYDROGEN
PEROXIDE FOR 114 HOURS, IMP LOST 88% MORE GLOSS



REAL WORLD TESTING

We tested panels samples in chemical solutions to simulate exposure to chemicals over time. The IMP did not resist the hydrogen peroxide and after only seven hours of exposure, paint peeled off while our GLASBORD panel fully resisted the hydrogen peroxide.

IMP when submersed in H2O2



discover the difference



HACCPHACCP CERTIFIED

HAZARD ANALYSIS CRITICAL CONTROL POINT CERTIFIED

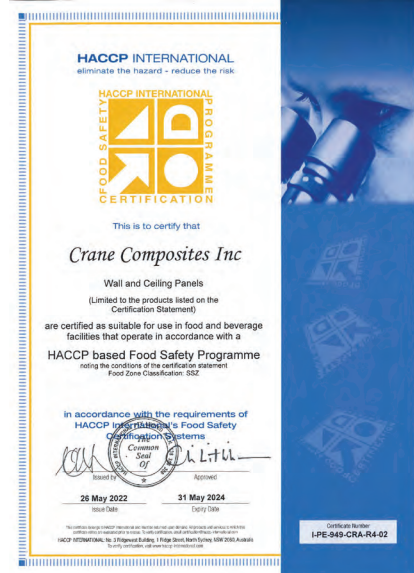
GLASBORD panels are the first certified frp solution. HACCP certifies that GLASBORD panels are suitable for use in food and beverage facilities that operate in accordance with a HACCP based Food Safety Program.

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

HACCP International's certification mark confirms a non-food product's ability to support the integrity and safety of food as demanded by industry expectations, legislation and GSFI (Global Food Safety Initiative) endorsed standards. Non-food items and services that are used extensively in food manufacturing, handling and supply can have a significant impact on food safety, so the HACCP International Certification Program is aimed at organizations that are required to supply 'food safe' equipment, materials, machinery, supplies and services to the food industry. Issued by an independent organizations of food safety experts, HACCP International certification gives food companies assurances that certified products have been thoroughly tested.



NRP, HDPE, and IMP wall panels are not HACCP certified



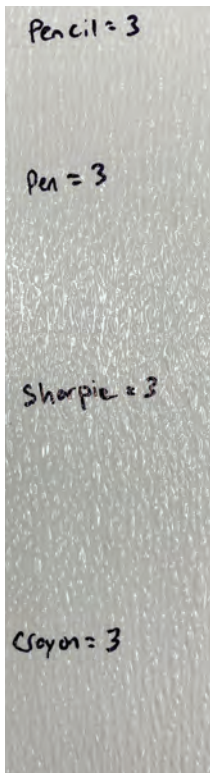


Easy to Clean

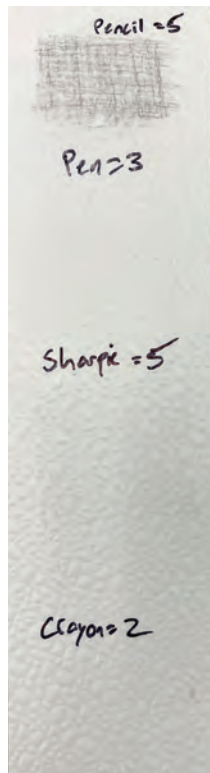
SURFACE THAT DELIVERS UNSURPASSED HYGIENE

Keep your facility clean with GLASBORD panels that are easy to clean. Cleanability is an important factor when considering wall solutions for food processing facilities. Surprise audits can mean costly fines or even shut down your facility. Crane Composites has conducted extensive cleanability compatibility testing with a variety of commonly used materials and cleansers for food processing industries to ensure our product's fitness for use.

FRP



**PVC
PLANK**



STAIN + CLEANABILITY TEST

GLASBORD FRP
OVER 5/8" GYPSUM

34%

PVC
PLANK

50%



GLASBORD panels with Surfaseal finish

Our third-party testing quantifies the value that Surfaseal adds to our FRP products. Surfaseal creates surfaces that deliver unsurpassed hygiene and durability. 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. GLASBORD with Surfaseal panels protect your walls and keep them looking clean.

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. This information is available at www.approvalguide.com and www.FRP.com/FMAproved.pdf.

Test	CHEMICAL CLEANABILITY	MOLD AND MILDEW FREE
Standard	ISO 2812-1	ATSM D3273 & ASTM D3274
Testing Laboratory	Independent 3rd Party Testing	Biological Lab Services
Results for FSFM Product	20% NAOH ONLY ISSUE	ATSM D3273 & ASTM D3274



who we are

Crane Composites Inc., a subsidiary of Crane Holdings, Co. (NYSE:CR), is the world's leading provider of fiber-reinforced composite materials.

Since 1954, we have continued to pioneer numerous patented technologies for industrial and commercial product applications. Crane Composites fiber-reinforced panels (FRP) can be found in virtually every type of vertical market, from highly industrialized environments to stylish retail and hospitality settings.

No matter what the application, our products and team reflect our mission statement: we are a performance

driven organization committed to global leadership and products of high-quality composite materials.

Customers benefit not only from the outstanding performance characteristics of our products, but also from our extensive support programs. Our expert product teams are focused on the needs of customers to provide unparalleled service and expertise.



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THE FOLLOWING ARE TRADEMARKS OF CRANE COMPOSITES, INC. OR A RELATED COMPANY: GLASBORD, KEMLITE, KEMPLY, SURFASEAL, SANIGRID, SILHOUETTE TRIMS AND VARIETEX
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