

PYRAN® PLATINUM by GLASSOPOLIS

The Only Certified Environmentally Friendly Fire-Rated Glass



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Glassopolis' parent company has been distributing clear fire-rated glazing products in North America for more than 20 years, and is one of the largest distributors of transparent glass-ceramics in the world. We know fire-rated glazing.

PYRAN® PLATINUM by Glassopolis is the premium architectural fire-protective clear glass-ceramic. It is made in Germany by SCHOTT TGS using a next generation micro-float process that produces a very high quality glass-ceramic. It compares very favorably to traditional fire-rated glass ceramics that are yellow-brown in color and may require corrective grinding and polishing to achieve premium quality. PYRAN® Platinum is also the ONLY eco-certified fire-rated glass in the world. For architectural projects that seek environmentally friendly products, PYRAN® Platinum is your best choice.

C2C CERTIFIED^{CM} SILVER BY MBDC

PYRAN® Platinum fire-rated glass-ceramic is environmentally friendly. PYRAN® Platinum has been Cradle to Cradle (C2C) Certified^{CM}-Silver by McDonough Braungart Design Chemistry (MBDC). Cradle to Cradle® Certification is a rigorous eco-label that evaluates the impacts of a product and its manufacturing process throughout its lifecycle, including recyclability and toxicity to human and environmental health.

CONTRIBUTES TO LEED CERTIFICATION FOR BUILDING PROJECTS

PYRAN® Platinum fire-rated glass-ceramic contributes to LEED certification for building projects. LEED is an acronym for Leadership in Energy and Environmental Design Green Building Rating System. LEED is the certification and measuring process of a building by the U.S. Green Building Council (USGBC). It is the evaluation of a project based on various criteria or credits. A project is given a rating based on points ranging from 1 to 100; LEED Certified is 40 to 49 points, LEED Silver is 50 to 59 points, LEED Gold is 60 to 79 and LEED Platinum is 80 and above.

Because PYRAN® Platinum fire-rated glass-ceramics are Cradle to Cradle Certified^{CM} they qualify for a special credit in the LEED certification process. The Innovation in Design Credit in any LEED Rating System can be earned if 2.5 - 5 % of the building materials budget is used on Cradle to Cradle Certified^{CM} products. Furthermore, C2C Certified^{CM} products qualify for LEED points as Environmentally Preferable Materials (MR 2.2) in the LEED for Homes Rating System.

EPA ENVIRONMENTALLY PREFERRED PURCHASING PROGRAM (EPP) FOR GOVERNMENT

C2C Certification also qualifies products to be listed in the U.S. EPA's Environmentally Preferable Purchasing (EPP) database. Federal agencies are directed by executive orders to make purchasing decisions with the environment in mind, and the EPP database is a tool used to facilitate the purchase of products and services with reduced environmental impacts.

Environmentally preferable products are those that have a "lesser or reduced effect on human health and the environment when compared with competing products that serve the same purpose." No other glass-ceramic on the market meets these requirements.

MANUFACTURING ENERGY & WATER CONSERVATION

SCHOTT TGS cares for the environment as is demonstrated in the manufacture and distribution of PYRAN® Platinum fire-rated glass-ceramic. Highlights of SCHOTT TGS' commitment to the environment concerning energy and water are as follows:

Renewable Energy

- Approximately 20% of energy used is renewable electricity sourced from wind, biomass, hydroelectric, solar and biogas.
- SCHOTT TGS operates solar panels onsite, which feed the electric grid. SCHOTT continues to develop photovoltaic technology.
- 5.77% of PYRAN® Platinum's energy is renewable.

Energy Conservation

- The composition and production methods used to manufacture PYRAN® Platinum glass-ceramic are optimized to prevent energy-intensive post-processing. For example, the micro-float process used to form the glass results in a smooth texture-free surface that does not require polishing.
- Employees practice energy conservation daily and follow a Code of Conduct for social responsibility.
- Self-audits of manufacturing areas are done every three months to identify areas for improvement.

Water Balance

- Water usage at the production facility is monitored.
- Water and wastewater streams are characterized. SCHOTT TGS meets or exceeds all applicable water usage laws.

Water Conservation

- SCHOTT TGS in Germany has a special permit allowing the manufacturing site to pump gray water from the nearby river. Gray water is used instead of freshwater when feasible. Gray water represents more than 90% of the water used in manufacturing, including social/sanitation water in the manufacturing and office buildings of support staff for PYRAN® Platinum glass-ceramic.
- All of the process water used in the manufacturing process is recycled. Only evaporative losses are replaced. Recirculation loops are used at the cooling tower, cullet cooling, melt tank, and glass washing.
- All of the buildings onsite use low-flow toilets and fixtures. Tankless (on-demand) water heaters are installed in office kitchen areas. Automatic dishwashers run only when full.
- Landscaping at SCHOTT TGS' facility does not include lawns or gardens requiring supplemental watering. Indoor houseplants with minimal water needs are used instead.
- All of the wastewater from the facility is discharged to the local wastewater treatment plant. This plant produces biogas.

MATERIAL TOXICITY & RECYCLABILITY

SCHOTT TGS cares for the environment in manufacturing and distributing PYRAN® Platinum. Highlights of SCHOTT TGS' commitment to the environment regarding materials, recyclability and social responsibility are as follows:

Raw Materials

- All incoming raw materials must meet strict tolerances for contamination.
- The handling and processing of raw materials in the batch house are engineered such that worker exposure is extremely limited.
- PYRAN® Platinum glass-ceramic is manufactured without hazardous heavy metals antimony or arsenic, which are normally used as refining agents. SCHOTT TGS is not contributing to the mining, transportation and continued demand of these toxic heavy metals.

Recyclability

- In the PYRAN® Platinum glass-ceramic production facility, SCHOTT TGS currently recycles all of its internal cut-off and scrap material as cullet in its glass melts. The melt tank uses 40 to 50% cullet.
- SCHOTT is committed to the conservation of natural resources and to reducing the amount of glass waste in landfills. Recycling glass-ceramic is not as simple as recycling consumer glass products due to the high heat input required for remelting. Therefore no public programs exist for local recycling of glass-ceramic in the United States. To minimize the amount of glass-ceramic in landfills in North America, SCHOTT launched a recycling program in summer 2010 to take back drops and unused material from its North American warehouse and from all PYRAN® glass-ceramic fabricators in North America to be re-used as cullet in the manufacturing process.
- PYRAN® Platinum is permanently labeled and recyclable at the end of the product life.

®PYRAN is a registered trademark of SCHOTT AG. Cradle to Cradle® is a trademark of MBDC.



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