



A commitment to a circular economy for flat glass

Saint-Gobain Glass is an industry leader in the responsible reclamation and remanufacture of post- consumer glass cullet. Crucially, our proactive Glass Forever cullet return programme also includes the recovery of 'post-consumer' glass from old windows, which had been typically disposed of in landfills.

In the face of the climate emergency, it is imperative to challenge existing business models to secure a more sustainable future for all inhabitants of our planet. Through Glass Forever, our teams closely collaborate with our customers to ensure that, whenever possible, both pre and post-consumer glass undergo recycling processes, contributing to the production of high-performance glass without impacting the quality of our new glass. This is possible because glass can be infinitely recycled without deterioration of quality.

SAINT-GOBAIN WILL MANUFACTURE ALL FLAT GLASS USING 50% CULLET BY 2030.



Limit CO₂ and sulphur oxide emissions released during the production process.

Using one tonne of cullet in place of one tonne of raw materials can reduce scope 1, 2 and 3 CO₂ emissions by

700kg.

Preserve natural resources and biodiversity.

For every one tonne of cullet used, we can save up to

1200kg

of virgin raw materials, this includes sand, soda ash and limestone.



Increased competitiveness

by meeting the market demand for recycled products.

Better glass quality

with the production

of optimised batches.

30%

less energy is required in the furnace when melting cullet than raw materials.

Less requirement for raw materials.

Due to the demand and scarcity of raw materials, the price of these raw materials is likely to rise.



WE ARE SET TO ACHIEVE 50% CULLET USAGE IN SAINT-GOBAIN GLASS PRODUCTION BY 2030.

Cullet types

There are 3 types of cullet depending on its origin, as defined by the ISO 14021 standard:

Internal cullet



Cullet originating directly from glass production. This particular type of cullet remains within the flat glass manufacturing facility and is immediately recycled within the production lines.

Pre-consumer cullet



Glass waste originating from glass sheet processing and from products that are still in transit to the end customer. This form of cullet can be encountered at glass processing sites.

Post-consumer cullet



Post-consumer cullet refers to end of life glass that has already been used by consumers and is collected for remanufacturing. This can include glass from commercial facades, home renovations and upgrades and even interior glass used across various commercial buildings such as shopping centres and offices etc. Post-consumer cullet is glass that has reached the end of its lifespan, either due to upgrades in buildings or maintenance work that makes legacy windows inefficient and therefore, ineffective for consumers.





SUSTAINABILITY: WHY IT'S IMPORTANT





The waste glass is collected in specialist bags using suitable methods as identified in the auditing stage.



The final cullet is then blended with other raw materials and remanufactured into new highperformance flat

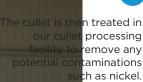


TAKING A STEP-BY-STEP APPROACH



3

The cullet is either returned directly to Eggborough or taken to an off-site location for segregation. The final cullet is then returned to Eggborough using collection methods best suited to the site.





The cullet undergoes a rigorous quality inspection and its properties are measured and documented for customer reports.

thed in 2001, our sustainability initiatives significantly and are known today as ver, over the years we've been learning and methodology to maximise opportunities or example, as with monolithic glass, we acture laminated glass, a process which highly difficult. The laminated glass is and introduced into the furnace without the quality of the new glass or increasing

We've also innovated a series of patented glass-crushing machines, allowing us to scale up our glass-processing operations safely and practically whilst averting potential cullet contamination. A prime illustration of our innovation is our mobile crushing machine, ingeniously housed within a recycled shipping container. This setup empowers Saint-Gobain Glass to readily deploy our technology to significant deconstruction sites throughout the UK.



JOIN OUR CULLET RETURN PROGRAMME



Cullet collection bags

Safely dispose of sharp glass pieces with Saint-Gobain Glass cullet collection bags. Easily secured in a frame or hopper, these bags can be conveniently returned to our Eggborough plant using our in-loader.



Skip collections

Our partnership-driven skip collections simplify end-of-life glass disposal, especially on deconstruction sites. Prompt removal directly from the site ensures a hassle-free experience, prioritising safety, and efficiency for our clients.



Cullet crushing machine

Explore our cullet crushing machines designed to separate glass from glazed units. Crush glass on-site, and we'll collect it for recycling into new high-performance glass. Simple to install and use, these machines offer a scalable solution for glass recycling.



Large volume cullet collection

For high-volume glass processors, opt for our standing trailer cullet collection. Fill the trailer with waste glass, and we'll replace it as needed based on a pre-established schedule, providing a seamless and efficient solution.



Stillage collection

Streamline waste glass removal by allowing us to collect standard stillage frames directly from project sites. This approach not only enhances efficiency but also minimizes safety concerns associated with glass recovery, ensuring a secure and smooth waste disposal experience.

Contact
Saint-Gobain Glass
for more information
on our cullet recycling
machines or to find a
partner near you.







SAINT-GOBAIN GLASS

Weeland Road Eggborough East Riding of Yorkshire DN14 OFD UK saint-gobain-glass.co.uk