



RECYCLED CONTENT DECLARATION

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Manufactured in all our floats*

RECYCLED CONTENT DECLARATION

We declare that the percentage of external cullet^a included in the composition of flat glass products manufactured by Saint-Gobain Glass is the following:

Pre-consumer cullet	13 %
Post-consumer cullet	<1 %

The standard ISO 14021:1999 calculates the recycled content as follow:

$$\frac{\text{post-consumer cullet} + \text{pre-consumer cullet}}{\text{post-consumer cullet} + \text{pre-consumer cullet} + \text{new glass}^b}$$

Following this method, the recycled content of flat glass products manufactured by Saint-Gobain Glass is 13% by weight.

The building standard LEED v4.1 “*Building product disclosure and optimization - sourcing of raw materials*” criteria calculates the recycled content as follow:

$$\text{post-consumer content} + \frac{1}{2} \text{pre-consumer content}$$

Following this method, the recycled content of flat glass products manufactured by Saint-Gobain Glass is 6.5% by weight.

Did you know?

Using one ton of cullet in glass production:

- Saves 1.2 tons of virgin raw materials
- Reduces greenhouse gas emissions (CO₂) by approximately 700 kg (scopes 1, 2, 3).

^a Scraps of glass

^b Glass resulting from the melting of the new primary raw materials

DEFINITIONS^c

The following definitions are taken from section 7.8.1.1 of ISO 14021:1999 Environmental labels and declarations, where:

Recycled content: proportion, by mass, of recycled material in a product or packaging. Only pre-consumer and post-consumer materials shall be considered as recycled content.

Post-consumer material: material generated by households or commercial, industrial and institutional facilities in their role as end-users of the product which can no longer be used for its intended purpose.

In practice, in the case of flat glass, all material coming from glass recycling collection schemes falls under this category, i.e. glass waste from end-of-life vehicles, construction and demolition waste, etc.

Pre-consumer material: material diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials such as rework, regrind, or scrap generated in a process and capable of being reclaimed within the same process that generated it.

In the case of flat glass, this waste originates from the processing or re-processing of glass that takes place before the final product reaches the consumer market. Pre-consumer waste flat glass is made of cut-offs, losses during laminating, bending and other processing, including the manufacture of insulating glass units or automotive windscreens. This processing could be at the same facility as the production furnace but is separate to the flat glass manufacturing process.

Only material that would otherwise have entered the solid waste stream but is in fact being reused qualifies as recycled content. Pre-consumer recycled content therefore excludes material that can be reclaimed within the same process that generated it. Cullet generated in the furnace plant, and which is reintroduced into the furnace cannot be considered as pre-consumer recycled content, since there was never an intent to discard it and therefore it would never have entered the solid waste stream.

^c Source: Glass for Europe [statement on Recycled Content of flat glass for LEED Certification](#), December 2014