



**renew:glass**  
a *makechange*™ initiative

# Introducing

## make**change**™ – Our sustainability journey

At Pilkington Italia, we're focused on driving circularity and delivering sustainable solutions across our entire business and supply chain. Working closely with our partners, we're determined to make change.

We're making progress with plans to decrease CO<sub>2</sub> emissions across our manufacturing processes and value chain, including successful world first alternative fuel trials to switching to renewable energy. We're committed to reducing our Scope 1, Scope 2 & Scope 3 emissions by 30% by 2030 and being carbon neutral by 2050 based on independently audited and certified by the Science-Based Targets initiative (SBTi).

Our aim is to reduce the use of natural resources, minimise waste in all forms and help to build a circular economy. Recycling is a big part of the picture.

Recycling one tonne of end-of-life glass has the potential to save up to 700kg of CO<sub>2</sub> emissions, yet less than 1% of float glass in the world is recycled\*.

Together, we can make**change**™ and support the transition to a circular glass economy by reducing the amount of glass that ends up in landfill.

Under our renew:glass initiative, we will work with our partners to increase the amount of flat glass being responsibly recycled and give it new life.

This initiative further reinforces our commitment to environmental responsibility and marks a significant step towards a sustainable future.

\*World Economic Forum: Circularity in the Built Environment: Maximizing CO<sub>2</sub> Abatement and Business Opportunities Dec 23 pg. 21

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## Circularity in glass

Float glass manufacturing is a high-energy consuming process. Building a circular glass economy and ensuring compliance with building regulations, whether voluntary or regulatory, requires an industry-wide focus on lowering emissions and reducing waste.

Introducing an additional **one tonne** of cullet back into our glass yields several benefits:



Saves around **1.2 tonnes** of raw materials, preserving natural and finite resources



Saves around **30%** of energy required due to the lower melting temperature



Reduces CO<sub>2</sub> emissions by around **700kg\***



Supports the production of **low carbon** product ranges such as Pilkington **Mirai™**

Increasing the use of cullet (recycled flat glass) is one of the simplest ways to reduce the environmental impact of glass manufacturing and the whole life carbon of buildings.

**In addition to the environmental gains, renew:glass benefits its partners in a variety of ways:**

Convenient, flexible methods of returning cullet and ongoing support from our Team

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Can reduce waste glass going to landfill

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Demonstrates to customers your commitment to Sustainability

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Supports reductions to Corporate Scope 3 emissions reporting

\*Scope 1, 2 & 3

# What you need to know about cullet

## Types of cullet



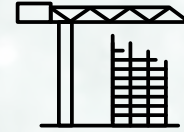
### Internal Cullet

Cullet that comes directly from glass production. This type of high-quality cullet does not leave the flat glass making facility, and it is directly recycled/remelted on the production lines.



### Pre-Consumer Cullet

Glass coming from off-cuts generated on glass processors' sites and from products that have not yet been delivered to the final client. This type of cullet can be found on coating lines and glass processing sites.



### Post-Consumer Cullet

Cullet generated after delivery to the final user. In the construction industry, this mainly comes from renovation of old windows, facades and building dismantling.

## How to collect clean, high quality cullet for **renew:glass**

Get in touch with our renew:glass team for support and advice tailored to your business, project or building. By following our best practice guidance, it's possible to optimise the usage and extract high quality cullet for recycling back into the glass production process.

Clean, segregated cullet is essential for ensuring the quality, safety and performance of all flat glass products.

## Accepted materials with **renew:glass**

As of today, renew:glass accepts the following types of cullet:



### Accepted

- Float glass (clear and low-iron)
- Textured/Patterned glass
- Coated glass
- Toughened glass
- Glass from other Flat Glass Manufacturers (if it meets all other criteria) whether CE marked and in compliance with EN 572
- Printed glass\*



### Not Accepted

- Tinted float glass
- Mirrored glass
- Laminated glass
- Container glass
- Ceramic or borosilicate fire rated glass
- IGU\*
- Floor sweepings
- Metal
- Trash
- Other minerals

\*Please consult your local sales representative for more information on suitability.

Join  **renew:glass**  
a make**change**<sup>™</sup> initiative

For more information on our cullet recycling programmes or to find out more about renew:glass initiatives in your area, please contact your local sales representative or send an e-mail to [assistentatecnica@nsg.com](mailto:assistentatecnica@nsg.com).