

idealwindowsolutions 



A new lease of life for
old windows and doors

Glass: **Recyclable forever**

Introducing waste glass back into the production process doesn't just help to conserve raw materials and reduce landfill, it limits the amount of CO₂ and sulphur emissions from the glass furnaces as well as reducing energy consumption.

Glass can be infinitely recycled without suffering any deterioration in performance.

While domestic glass recycling is a familiar part of everyday life, there is a huge opportunity to collect waste glass from window manufacture as well as recovering the old glass during window replacement.

Old glazing units



Crushed glass waste



Image ©Saint-Gobain Glass

New sheet glass



Image ©Saint-Gobain Glass



Melting

ONE TONNE

of glass waste vs
raw materials saves
600Kwh of energy*



New glass produced by
Saint-Gobain Glass contains

UP TO 40%
recycled glass waste*

*Data: Saint-Gobain Glass

PVC-U: Recyclable up to 10 times

PVC-U window and doors have an average lifespan of between 30 and 40 years.

PVC-U can be reused, reground, melted and remoulded over 10 times and still maintain performance. With a potential cumulative lifetime of 400 years from a single window or door, consigning old products to landfill simply cannot be justified.

As well as avoiding waste, making the effort to recover and recycle used PVC-U reduces the demand for raw materials, cutting energy consumption and carbon emissions.

Old window frames



Recycled PVC-U



New window frames



A replacement PVC-U window frame can contain up to

45%
recycled content



The PVC-U recovery and refinement process achieves

99%
purity

What is closed loop recycling?

Closed loop recycling is the process of using recycled material to manufacture new products in the same category.

We're working with leading manufacturers not only to reduce waste and avoid landfill, but also to place your old windows, doors and glass into closed loop recycling programmes.

EMPLAS

Epwin™
window systems



Our primary supplier, Emplas Window Systems, in association with the Epwin Group and Poly-Pure, are at the forefront of the closed loop recycling process for PVC-U window frames.

PADIHAMGLASS



Padiham Glass are building a new recycling loop with Saint-Gobain Glass to recover more used window glass for a variety of sustainability purposes.

You can be reassured that when we remove your old windows and doors we will make sure that every piece of the material collected will be evaluated and processed as part of a closed loop recycling programme.



How does closed loop recycling work?

Every step of the process, from the recovery and recycling of material, through to the manufacture of new products takes place in the UK.

- 1 Removal**
Old windows and doors, including the glass and hardware, are removed, to be stored and separated prior to collection.
- 2 Collection**
The frames and glass are collected and transported to specialist processing facilities in the United Kingdom.
- 3 Processing**
The materials undergo a range of processes to separate and refine them. Other materials such as rubber and metals are also recovered.
- 4 Remanufacture**
Recycled PVC-U pellets are made into new lengths of window frame. Refined glass waste is introduced into the manufacture of new glass sheets.
- 5 Fabrication**
Recycled PVC-U and glass come together. Brand new window frames are cut, machined, welded and glazed to order.
- 6 Installation**
Expert teams fit the new windows containing recycled material. Performance and aesthetics remain exceptional, and waste has been minimised.



Where is recycled material used?

You might be pleasantly surprised at how much recycled material your new windows can contain.

Recycled Glass

High performance sheet glass incorporating glass waste from manufacturing sites and old window frames.

Recycled PVC-U

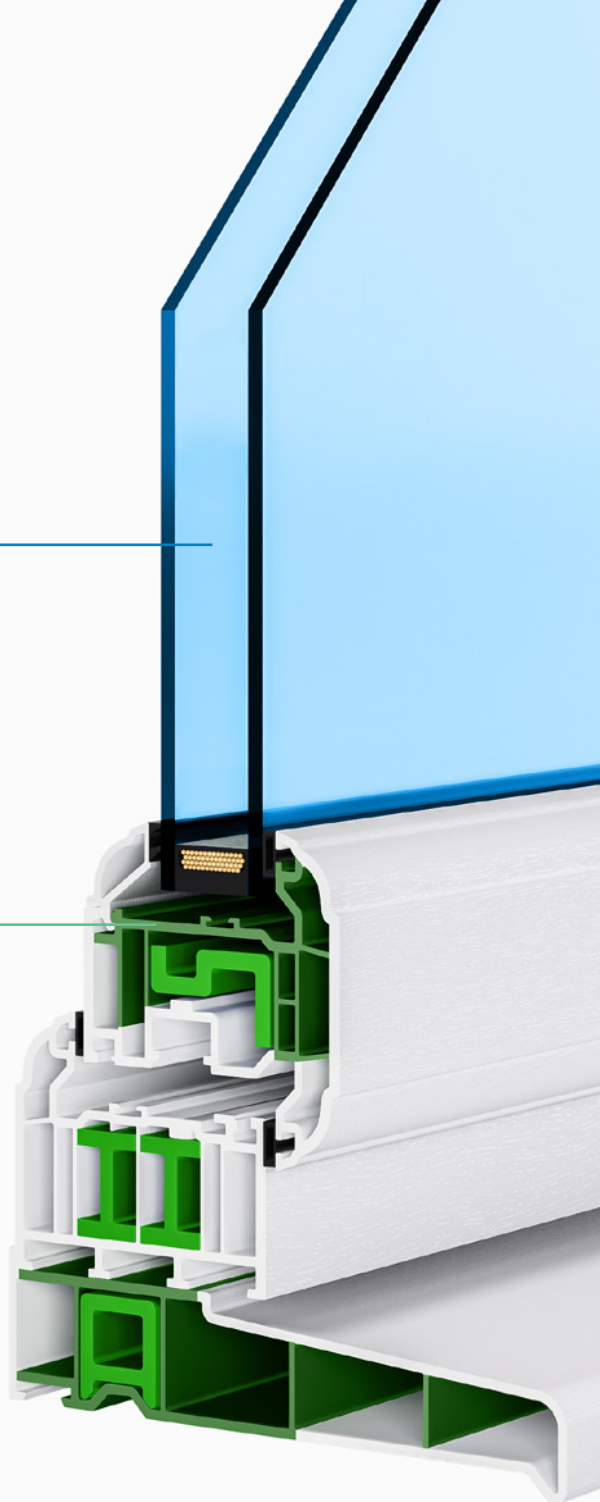
This is used to make interior sections as the material can be off white/light grey in colour.

The recycled sections deliver the same performance, strength and durability of brand new PVC-U material.

Image represents the optimal combination of recycled glass and PVC-U materials.

Final contribution of recycled materials dependent on precise frame and glass specification.

Coloured sections shown are for illustrative purposes and do not represent colour of final recycled materials.





RECOVERED IN BRITAIN.
RECYCLED IN BRITAIN.
REMADE IN BRITAIN.

Contact us for more information



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