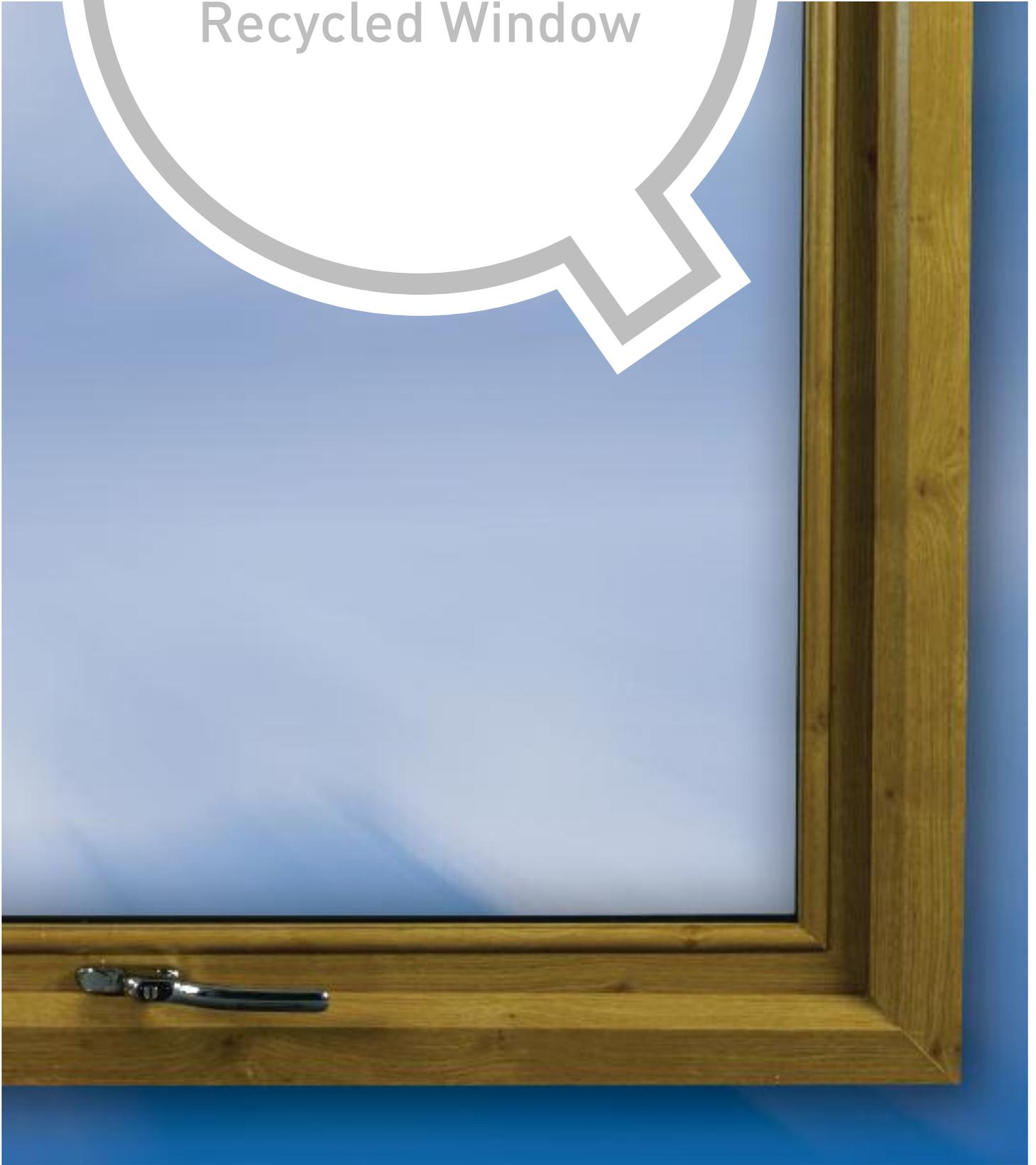


Recycled Window



THE BEST WINDOWS ARE MADE FROM PROFILE 22

The latest innovation from Profile 22

RECO22 represents a real breakthrough for the British window industry. Designed especially for the low-carbon-economy of today, RECO22 offers a recycled PVC-U window system, made from 100% recycled PVC-U material, available in a diverse range of colours. This is the first window to achieve such an accolade in the UK, confirming Profile 22 as a true innovator of sustainable building materials.

The best windows
are made from
Profile 22

Leading the way, RECO22 is the first window system to be awarded the Building Research Establishment (BRE) A+ rating for all sectors including domestic housing.

In terms of manufacturing PVC-U window profile, RECO22 is equivalent to only 6% of the carbon footprint of virgin extruded material. To put it another way, virgin material has 16 times the carbon footprint of a recycled window. The RECO22 window profile is the first of its kind made from 100% recycled waste PVC-U, fully closing the recycling loop.*



Profile 22 was the winner of **The Best Recycled Product Award in 2009**, and finalist in the **Sustainable Housing Awards 2008 - 2012**.

* The 100% recycled profile is foiled to desired colour option, which represents 2% of the total material; therefore the window system is 98% recycled.

Profile 22 works closely with its parent company Epwin Group's dedicated recycling facility; a several million pounds investment creating the UK's largest and most advanced PVC-U recycling plant.

Once re-processed the PVC-U is re-used into a wide range of long life building products within our own facilities.

Closed loop recycling:

- PVC-U is a multi-purpose material and glass and steel in the window unit can also be recovered
- PVC-U can be recycled over 10 times without deterioration in service performance
- The PVC-U industry successfully achieved recycling targets set by the Vinyl 2010 initiative and is now preparing for Vinyl 2020.

Carbon dioxide emissions

Epwin, and particularly Profile 22, have spent a lot of time examining how they can reduce their CO₂ emissions. Working with the Carbon Trust the company have introduced a number of initiatives that reduces electricity and water consumption. These initiatives alone have meant a saving in the Profile 22 carbon footprint of 1013 tonnes per year since 2005.

The launch of RECO₂₂ is a real breakthrough in reducing CO₂ emissions for the window extrusion industry. A study undertaken by Recovinyl calculated that the RECO₂₂ profile has only 6% of the carbon footprint of a PVC-U profile using virgin material. Therefore, virgin material extrusion produces over 16 times the amount of the carbon emissions than recycled extrusions. RECO₂₂ has been awarded the coveted BRE A+ green guide, and is the first window to achieve such an accolade in the UK, confirming Profile 22 as a true innovator of sustainable building materials.



RECO22 Case Study - Yardley Great Trust

Low carbon fully recycled windows supplied to sheltered housing scheme

Advanced performance thermally efficient windows, featuring frames manufactured solely from recycled PVC-U, have been supplied to a Birmingham sheltered housing scheme

Manufactured by Framexpress and installed by lead contractor, Berben Group, 128 recycled windows were specified by Yardley Great Trust at its Foliot Fields site, a supported living scheme for older people.

Made using the new recycled low carbon RECO22 window framing system from Profile 22, the carbon footprint of the extruded window profile is just six per cent of that manufactured using virgin material.

The first window system to secure a dedicated A+ rating across all domestic applications from the BRE earlier this year, the specification of RECO22 by the Trust, provides a strong fit to its own commitment to the sustainable management of its property portfolio.

The 31 properties at Foliot Fields were built by Yardley Great Trust in 1984. A registered charity, the Trust was founded in 1355 and aims to relieve poverty through grants, as well as providing care and housing to older people throughout the Birmingham area.

As residents remained in occupancy throughout the project, full consultation with them and close working between partners formed a central tenet of project delivery.

RECO22 was launched by Profile 22 last year, bringing together the commercial window systems specialist's expertise in extrusion and innovation in recycling and the recovery of waste and end of life PVC-U, developed by parent company, the Epwin



In addition to cutting the carbon footprint of extruded framing material to just six per cent of that of virgin material, a triple glazed option means that RECO22 delivers an advanced thermal performance achieving u-values (the measure of thermal insulation) as low as 0.8 W/m²K.



The best windows are made from Profile 22

Beautiful coloured recycled windows

RECO22 is available in a diverse range of colour options designed to offer architects and designers maximum choice in the specification of long-lasting, maintenance-free and cost-effective PVC-U windows and doors.



Antique Oak



Mahogany



Rosewood



White (PX)



Cream (PX)



Chartwell Green



Hazy Grey



Slate Grey



Anthracite Grey



Anthracite Grey
(flat)



Agate Grey



Dark Red



Dark Green



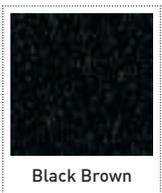
Steel Blue



Irish Oak



Siena PR



Black Brown

Colour options are the perfect for blending into existing framework, street scenes or wishing to create a contrast on a rendered building. Dual colour options are fully available.



Recycled Composite Material (RCM) Reinforcements

RCM is a recycled plastic window and door reinforcement manufactured waste PVC-U, offering a cost-effective substitute to steel or aluminium sections, and forms a small, but integral, part of RECO22. RCM is less conductive than steel making RECO22 more thermally efficient.

Cavity Closer

RECO22 new build range from Profile 22 also offers a cavity closer and former system called Winfast, which is manufactured from recycled waste PVC-U and is designed to work with all modern methods of construction.

This versatile cost-effective cavity closer system provides many benefits such as a template for window apertures, simple and effective frame location and also features built-in sealing. This means that windows can be fitted internally, improving thermal performance and overcoming a raft of health and safety regulations.



Composite doors

RECO22 is a 70mm framing system for composite doors and side panels, which offers:

- Dedicated hardware
- Complete range of GRP PVC-U composite doors and fire doors
- PAS 23 and PAS 24 compliance



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