

Recycled Composite Material



THE BEST WINDOWS ARE MADE FROM PROFILE 22

Introducing Recycled Composite Material

Recycled Composite Material (RCM) is a reinforcement for PVC-U windows and doors manufactured from recycled waste PVC-U. Supplied as a substitute to either steel or aluminium sections, RCM is a cost effective alternative that offers superb benefits, while being fully sustainable.

Developed as part of our proactive stance to increase the sustainable credentials of our product range, RCM closes loop to the recycling process, offers better thermal efficiency and has a minimum life cycle of 35 years.



At Profile 22 we have over 30 years' experience in the refurbishment and new housing sectors - making us ideally positioned to offer comprehensive advice and guidance on the specification of windows and doors.

As the UK's leading PVC-U window and door systems company, we are fully committed to minimising our impact on the environment through continuous product innovation and maximising the recycled content in our products.

Cutting Edge Innovation



Profile 22 is the first systems company in the UK to introduce recycled composite material reinforcements for its PVC-U window and door profiles, for both white and woodgrain outer frames and casement window sashes.

The benefits of using RCM are overwhelming from every point of view; making it a truly sustainable choice for window and door refurbishment and new build for Local Authorities, ALMO's, RSL's, Procurement Consortia and contractors.

At Profile 22 product development never ceases. We continue to work hard to deliver further enhancements to our range of advanced performance windows and doors through our dedicated national network of manufacturers and installers.



Benefits of RCM



Supplied as a substitute to either steel or aluminum sections, RCM is a cost effective alternative offering superb benefits where the anchorage of hardware is required in window and door outer frames and casement window sashes.



Strong & Secure

The method of fixing RCM is simple and is done in the conventional way metallic reinforcements are fixed.

It can be easily welded and has 20%-30% higher weld strength than traditional reinforcement materials.

RCM boasts excellent screw retention, with a screw pull out value greater than steel.

It does not corrode, RCM is a non-metallic material therefore it does not oxidize [rust].

Energy Efficient Windows



Energy Window	
70mm PVC-U Casement Window Profile 22 RT9 (Rating A)	
A	A
B	
C	
D	
E	
F	
G	
0	
UK	
Thermal Transmittance (U-value) Solid Part (W/m ² K) Protective Film (W/m ² K)	1.4 W/m ² K 0.44 W/m ² K 0.00 W/m ² K
	Reg. No.: 299 www.bfrs.org
<small>This label is not a statutory requirement. It is a voluntary label provided as a marketing service to allow consumers to make informed decisions on the energy performance of windows products.</small>	

Thermally Efficient

RCM is an excellent insulation material and has a thermal resistance value of - 0.17 w/mk. RCM is less conductive than steel increasing thermal efficiency.

Using RCM means you can achieve a better Window Energy Ratings (WER) over comparative windows with steel or aluminum reinforcement, which have a greater heat loss.

User Friendly

RCM is user friendly, easy to cut and clean, making it safer to handle. It doesn't require any specialist machinery and is much easier to handle, as it provides a burr free edge and is lighter than its alternatives. This also makes it easy to install, as it is lighter and windows can be carried more easily.



100% recycled



Environment's Choice

Environmental Commitment

Our product range can achieve a high recycled content material that far exceeds the BRE's target, without impacting on product quality.

With the PVC-U industry working towards recycling 100% of collectable waste to the 2020 Vinyl initiative deadline, at Profile 22 we are committed to ensuring we offer sustainable solutions for future generations. As a Group company we have developed a PVC-U recycling plant that can crush, recycle and re-process waste PVC-U into reusable granulate.

The introduction of RCM across our suite of window and door profiles is an essential part of our environmental commitments. RCM has also been approved by the Waste & Resources Action Programme (WRAP) and has been added to their guide to construction products.





Carbon Conscious Products from Profile 22



Sustainable Benefits

- Unique and patent pending RCM reinforcement from Profile 22.
- 100% recycled composite material reinforcement – fully and easily recyclable.
- Increases thermal efficiency – achieves a higher energy rating.
- More than 35 years' life expectancy.
- It doesn't corrode or rust.
- RCM has a screw pull out value greater than steel.
- The price of RCM is stable.
- 20-30% increase in corner weld strength.
- User friendly, easy to cut and clean, lighter than steel - making it easier and safer to handle.
- RCM makes windows easier to install as it is lighter and windows can be carried more easily.

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PROFILE 22 is an international PVC-U profile system supplied to local independent manufacturers and installers who contract to install windows, doors and conservatories.

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