

# REHAU CO-EXTRUSION

## Questions and Answers..

### What is Co-extrusion?

Co-extrusion is an innovative method of producing top quality window profiles, enabling different PVC materials to be processed on the core of the profile and the outer skin

### Why should we run profile with Co-extrusion?

This enables us to combine our responsibility to act sustainably with our commitment to offer our customers the best range of products. Customers now have the opportunity to improve their sustainability credentials and thus stand out from the competition.

### Does this affect the quality of our product?

Quality is key to our success. The window profile retains its outstanding characteristics, creating a unique combination of first rate quality, innovation and sustainability.

### What quality standards do our co-extrusion products meet and comply with?

All our window profiles meet the highest standards. All of the materials used fulfil the applicable standard EN12608 to the most onerous test required and are kitemarked licensed under KM13358 and 76189 (Enhanced Security PAS24 2016). Windows with co-extrusion profiles fully comply with all requirements in terms of colour and function while offering superior sustainability.

### What does the co-extruded window achieve performance wise?

Under BS6375 Part 1,2&3 it achieves:  
600 Pa Air permeability  
1050 Pa Water tightness  
2400 Pa Wind resistance  
Class (S) Severe accelerated weather rating  
PAS 24 allowing SDB (Secure by Design) to be gained  
Conforms to current building regulations, Approved Document Q

### Can the profiles manufactured with co-extrusion be interchangeable with mono-extrusion profiles?

Yes co-extrusion profiles can be used in conjunction with traditional mono-extruded profiles, as there is no requirement to make modifications to production equipment. Profiles from co-extrusion and mono-extrusion can be welded together with no decrease in weld capability.

### Will there be a change to the article/profile?

Yes and initially this will only affect white profile (laminated profiles will continue to be foiled on a mono-extruded substrate), there will be a change to the TOTAL 70c article numbers in order to identify the profile.

Details are as follows:

Mono-extrusion Article Number	Co-extrusion Article Number	Description	Packaging Information	
			Variant 701	Variant 901
546815	546816	Casement Slim Outer Frame 52mm (5 Chamber)	48m	768m
546825	546826	Casement Intermediate Outer Frame 62mm (5 Chamber)	36m	576m
546835	546836	Universal Outer Frame 72mm (5 Chamber)	36m	480m
546855	546856	Casement T Sash 75mm (5 Chamber)	36m	576m

### Will there be a visible difference in the colour of the co-extruded profiles?

No. The outer skin of the profile is made from virgin PVC1406 material.

We place special emphasis on ensuring that the visible surfaces on the installed windows fulfil the high expectations of the end consumer with regards to appearance.

### How will this affect the price of the profile?

In order to ensure the quality of REHAU profile is not compromised through co-extrusion, REHAU has made significant investment in delivering the required technology. Despite this co-extruded profiles will not carry a price premium to their mono-extruded equivalents.

### Do we have enough availability of recycled material to meet demand?

We have acquired a plant in the UK, PVCr in which we are able to sort, shred, clean and prepare old windows on a material specific basis. The facility enables us to produce in excess of 5000 tonnes of recycled material per year which we can then re-integrate into our production process.

Therefore it is critical that as part of this process we encourage and incentivise customers to supply us with their off cuts and post-consumer waste in order to enable us to achieve this.

### What does your fabricator need to do in order to start production?

No modifications need to be made to weld blocks or cutters as the geometry of the profiles remains the same from mono-extruded profiles to the new co-extruded version.

Window manufacturing software houses have been updated and supplied with the relevant data in order to provide the fabricators with an accurate material list.