



# The future window

**deceuninck**

100% RECYCLED PROFILE SERIES



*"Our recycling capacity quadrupled to 45,000 tons of PVC a year thanks to the new recycling line."*



# Phoenix the future window

100% RECYCLED MATERIALS

For many years, Deceuninck has made efforts to build a sustainable future. The new Phoenix line makes optimum use of recovery and recycling, thus giving a second life to used materials. Like a phoenix rising from the ashes, we at Deceuninck process windows and doors that have come to the end of their life and turn them into new, 100% recycled profiles.

The opening of a high-tech recycling plant in Diksmuide in 2018 was the next step towards becoming a circular company. The new recycling line quadrupled our recycling capacity to 45,000 tons of PVC a year. In addition, the automated process converts both post-industrial and post-consumer materials into raw materials of superior quality.

The realisation of this ambition is combined with a continuous dedication to the long lifespan of our products, which now results in a new line of 100% recycled window and door profiles. This way Deceuninck is prepared for a future in which the use of recycled materials is maximised as a standard.





# Phoenix: a sustainable window and door solution

SELECTED PROFILES FROM THE NEW  
**ELEGANT LINE**

MADE FROM  
**100%**  
RECYCLED MATERIALS

EVERY YEAR  
**2,3 MILLION**  
OLD WINDOWS CAN BE SAVED FROM LANDFILL OR INCINERATION

RECYCLING PVC REQUIRES  
**90%**  
LESS ENERGY THAN PRODUCING NEW RAW MATERIALS



*"The new line consists of 100% recycled window and door profiles."*





# The inexhaustible strength of PVC

DECEUNINCK, THE BIGGEST RECYCLER OF RIGID PLASTIC IN BELGIUM, THE NETHERLANDS AND LUXEMBOURG

Polyvinyl chloride is widely known for its performance. Our PVC window profiles excel in dimensional stability, resistance and thermal insulation. With the launch of the Elegant line, we have added sleek design to these properties.

On the basis of our recycling capacity, it is also safe to say that PVC is a sustainable material. Thanks to our recycling line's efficiency, we can even use the recycle one-on-one without losing quality. What's more: PVC can be recycled up to ten times without affecting its mechanical properties. With a lifespan of at least 35 years, the total life cycle of PVC materials is at least 350 years.

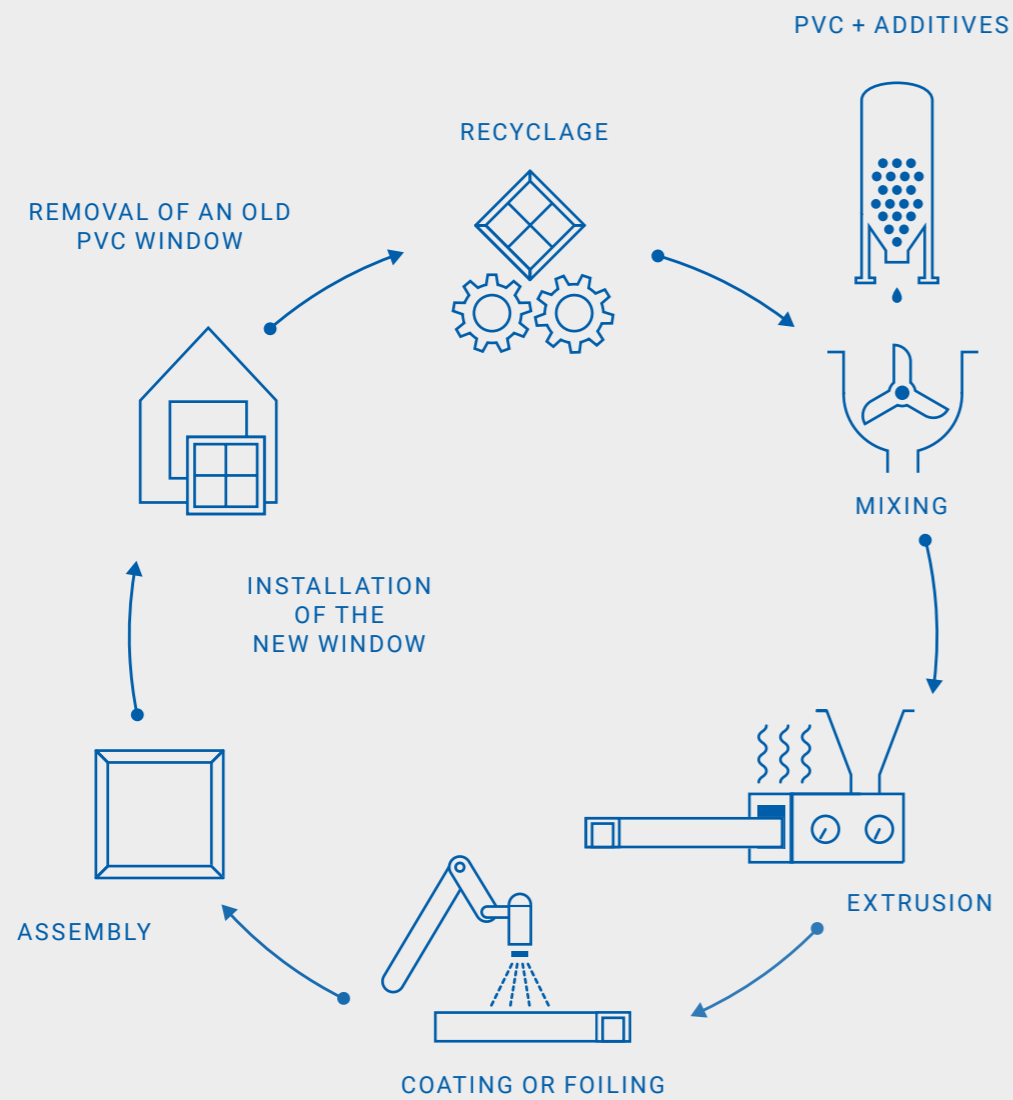
The use of PVC really started to take off in most European countries in the 1980s. Assuming that the lifespan of an installation is about 35 years, it is expected that the inflow of post-consumer PVC will significantly increase in the years to come. In addition, the

number of renovation projects increases as a result of the European Energy Performance of Buildings Directive (EPBD), which means there is a growing supply of old PVC building materials.

To save these materials from going to landfill or being incinerated, Deceuninck has launched recovery programmes across Europe. This way we collect used PVC which can be processed into new profiles at our plant after recycling. As a result, Deceuninck has become the biggest recycler of rigid plastic in Belgium, the Netherlands and Luxembourg.



*"We extend a material's life cycle for as long as possible through recovery and recycling."*



## A circular process

The circular economy is an alternative for the traditional linear economy with a material's life cycle being extended for as long as possible through recovery and recycling.

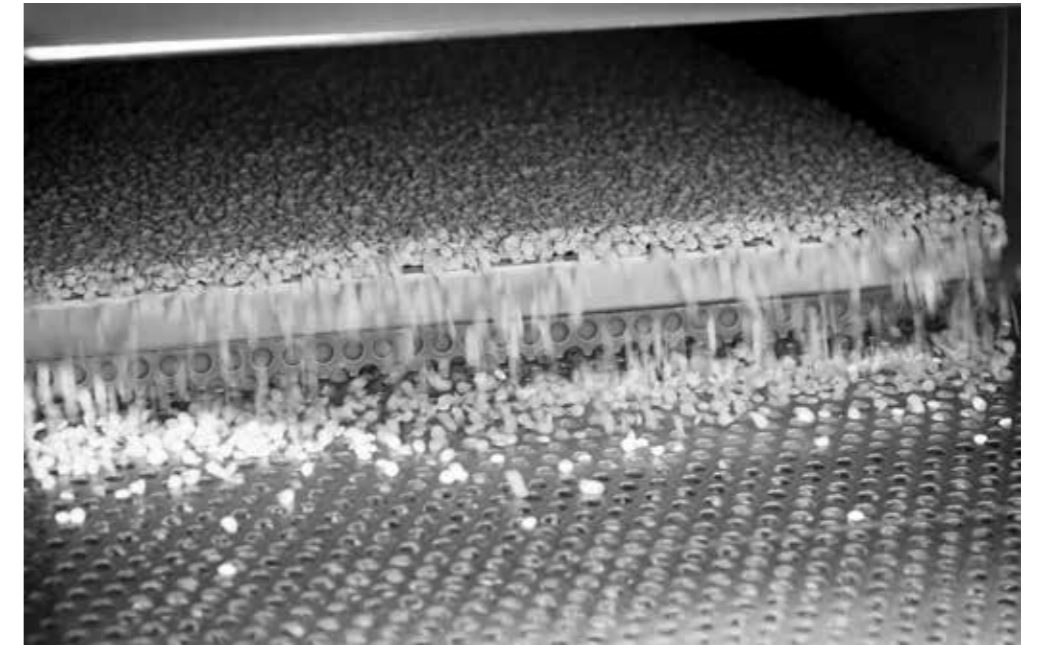
Deceuninck has focused on the recycling of materials from our own production sites and window manufacturers since 2012, and now has taken another step in the creation of a circular economy.

Our ultimate goal is to close the cycle for all material groups: used PVC profiles from demolitions or renovations and window by-products such as TPES, metals, glass, etc. Our fully automatic recycling line enhances the material sorting process and makes the processing of used PVC profiles more efficient and high-quality.





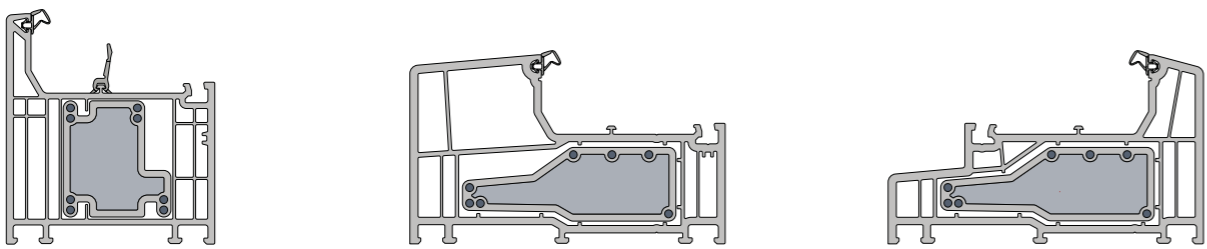
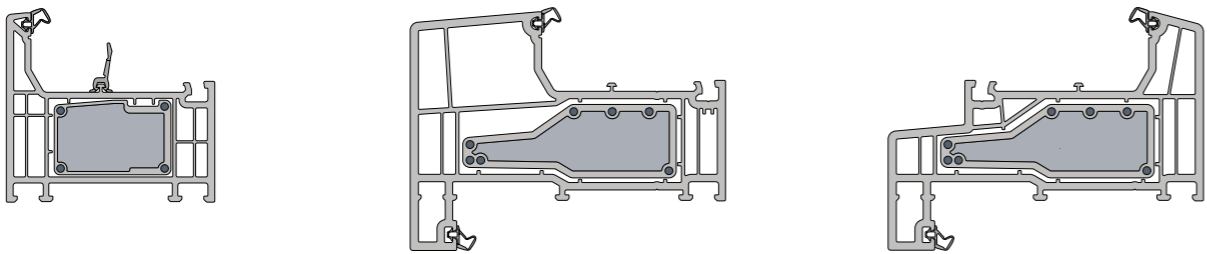
*"Our fully automatic recycling line makes the processing of used PVC profiles more efficient and high-quality."*



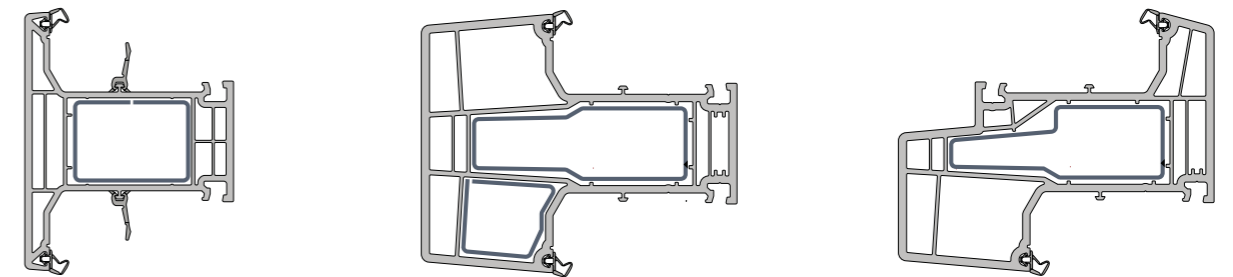


# Phoenix, 100% recycled profiles

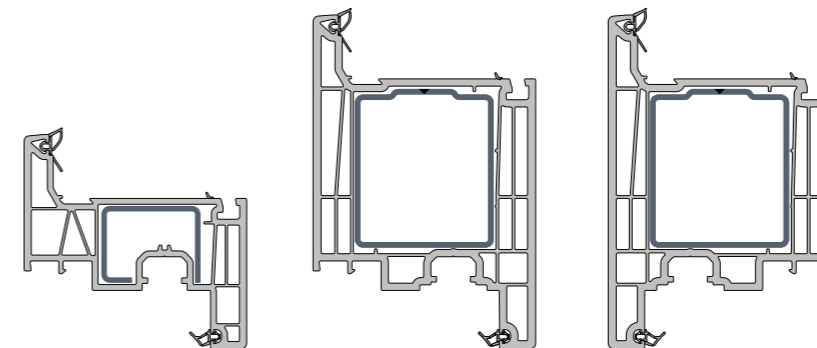
## FRAMES\*



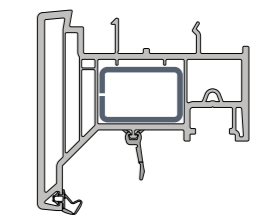
## STYLES\*



## SASHES\*



## COVER STRIP\*



EuCertPlast is a certification programme for companies recycling post-consumer plastics. The programme extends across the whole of Europe. Deceuninck was one of the first PVC recycling companies to receive this certificate.



Deceuninck has been awarded the VinylPlus product label, the first quality label for sustainable plastic building profiles. This label certifies the sustainable character of a company's overall policy, processes and products – from responsible procurement to thorough recycling, energy efficiency and renewable energy use.

\* Phoenix profiles are made to order. Orders are made on request with a delivery period of 6 weeks. The minimum order quantity is 200 lengths.

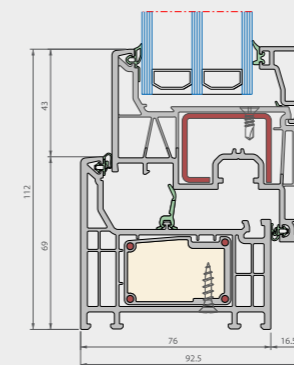
# Phoenix Infinity 76 X

THE NEW STANDARD HAS ARRIVED

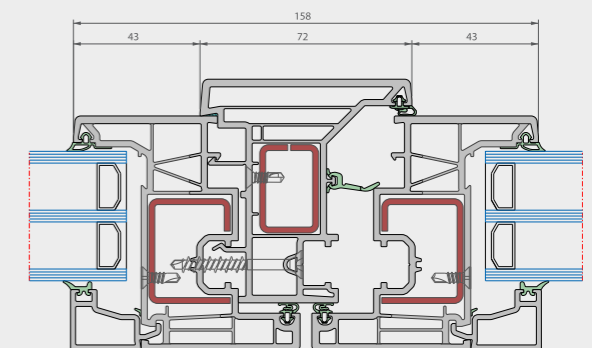
Traditional offset design combined with minimalistic geometry. This model features a Forthex reinforced frame with a steel-reinforced sash. The central sealing guarantees optimal results in terms of weatherproofing.

TECHNICAL CHARACTERISTICS	Phoenix Infinity 76 X
Frame installation depth	76mm
Sash installation depth	80mm
Sash type	offset
Frame rebate height	25mm
Frame rebate thickness	9mm
Sash rebate height	23mm
Sash rebate thickness	9mm
Possible glass thickness in the frame	10-55mm
Possible glass thickness in the sashes	14-59mm
Glass gluing	possible
Sealing system	double rebate sealing + central sealing sealing welded into the mitre joints
Uf value of frame/sash (W/m²K)	from 1.1*

\* Calculation in accordance with ISO 10077-2 with 36mm filling material



Vertical section



Horizontal section



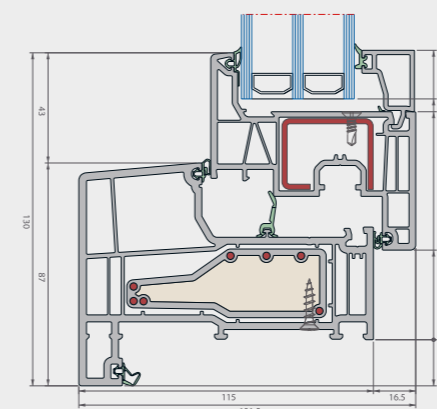
# Phoenix Infinity 115 X

THE NEW STANDARD  
HAS ARRIVED

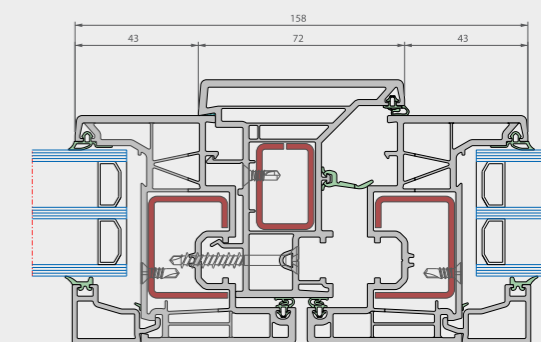
Traditional model for standard construction method in the Netherlands. Characteristic elements include a 115mm installation depth as well as a front slanted at an angle of 5° or 15°. This design is by default equipped with a steel-reinforced sash and a Forthex-reinforced frame. Central sealing is optional.

TECHNICAL CHARACTERISTICS	Phoenix Infinity 115 X
Frame installation depth	115mm
Sash installation depth	80mm
Sash type	offset
Frame rebate height	25mm
Frame rebate thickness	48mm
Sash rebate height	23mm
Sash rebate thickness	9mm
Possible glass thickness in the frame	10-55mm
Possible glass thickness in the sashes	14-59mm
Glass gluing	possible
Sealing system	double rebate sealing + central sealing (optional) sealing welded into the mitre joints
Uf value of frame/sash (W/m²K)	from 1.1*

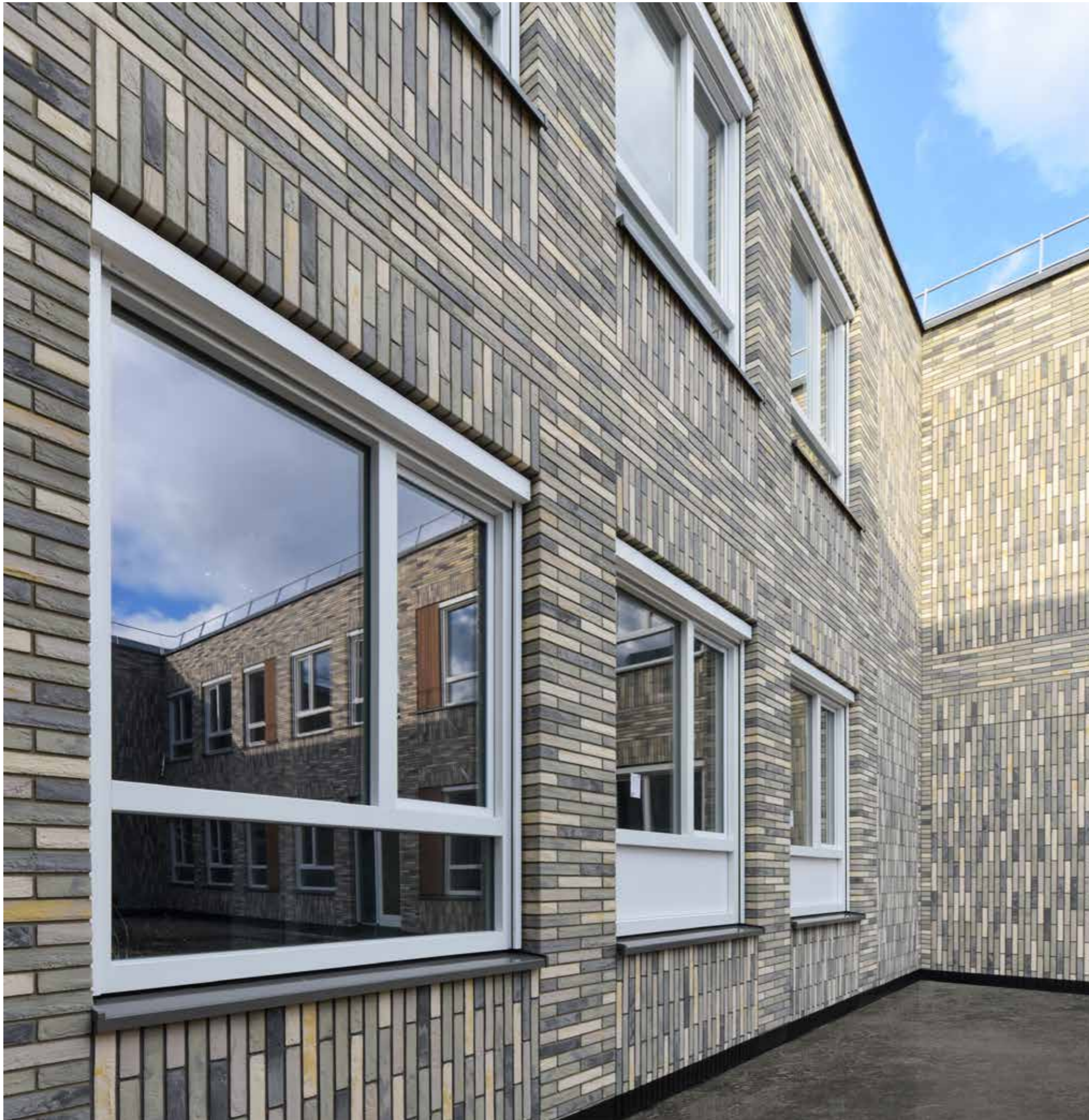
\* Calculation in accordance with ISO 10077-2 with 36mm filling material



Vertical section



Horizontal section



*“We must use our resources wisely and responsibly. This applies to each individual. That is why, on behalf of the Dutch Federation of Manufacturers of Plastic Façade Elements, I am committed to circular façades. In this respect, window frames made from recycled plastic are an essential component.”*

Albert Zegelaar, Director of the Dutch Federation of Manufacturers of Plastic Façade Elements

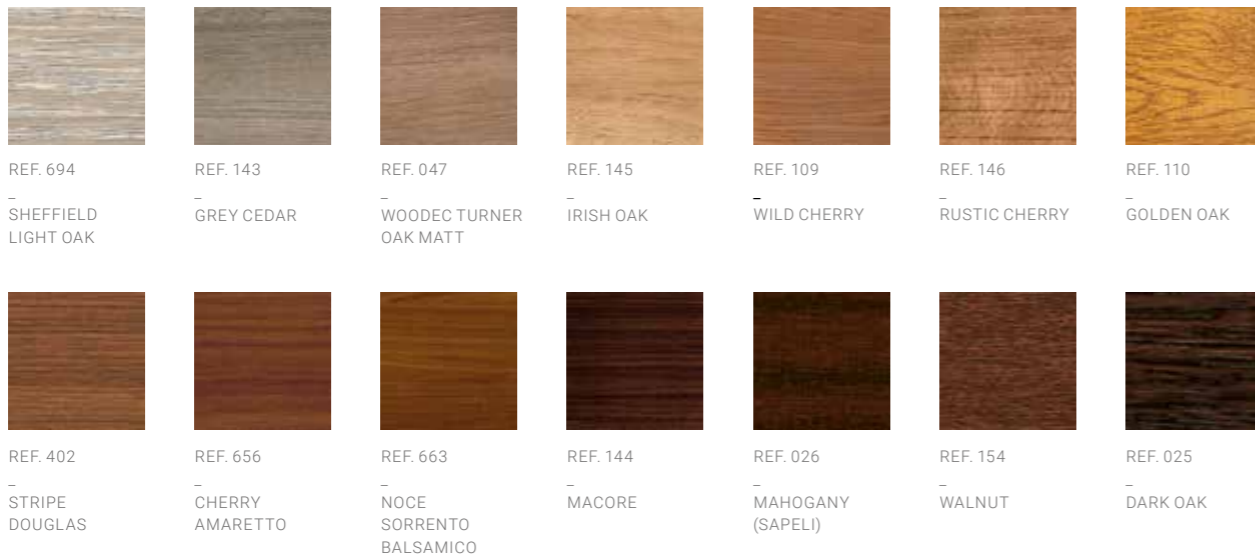




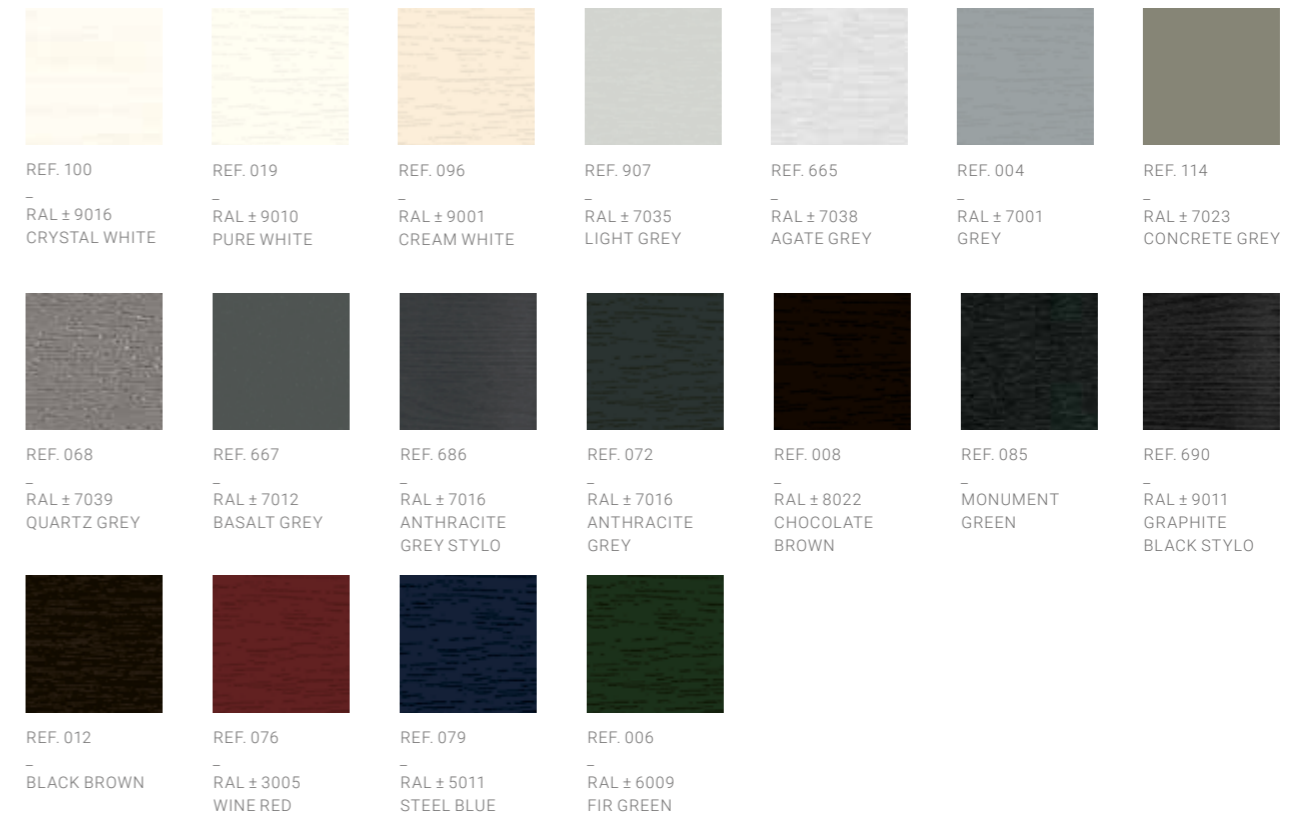
# A range of foils in 50 colours

The Elegant range of foils is also available for our 100% recycled window profiles. This results in 50 colour options in four distinct styles: natural wood, coloured wood, solids and metallics. Phoenix window profiles are available in a white plastic outer colour and can be coated on one side or on both sides.

## NATURAL WOOD



## COLOURED WOOD



## SOLIDS



## METALLIC LOOKS



\* The images and projects in this brochure are by courtesy of the following parties:

Project: Avignonschool  
Principal: Aloysius Stichting in Eindhoven, the Netherlands  
Architect: RoosRos Architecten, Oud-Beijerland  
Contractor: Dura Vermeer Bouw Zuid BV  
Installer: Ploeg kozijnen

Project: Ploeg kozijnen office building in Nieuw-Vennep, the Netherlands  
Architect: Ploeg kozijnen  
Installer: Ploeg kozijnen





## BUILDING A SUSTAINABLE HOME

Through innovative designs and production processes  
we deliver the most sustainable window, door and building solutions  
for today's and tomorrow's customers.

**deceuninck**

Deceuninck nv • Bruggesteeweg 360 • B-8830 Hooglede-Gits  
T +32 (0)51 239 211 • [info@deceuninck.com](mailto:info@deceuninck.com) • [www.deceuninck.com](http://www.deceuninck.com)

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