

deceuninck

Product

Specification Guide.



TRADITIONAL 2500
WINDOWS AND DOORS

HERITAGE 2800
WINDOWS AND DOORS

CONTEMPORARY 5000
WINDOWS AND DOORS

FULLY REVERSIBLE
WINDOWS

SLIDER24+
SLIDING DOORS

MONORAIL
SLIDING DOORS

deceuninck

**We are one
of the world's
largest PVC-U
manufacturers**

DECEUNINCK

WINDOWS AND DOORS

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DECEUNINCK

ABOUT US



Since its humble beginnings producing combs and other small plastic items in 1937, Deceuninck has grown to become one of the world leaders in the design, development, compounding, extrusion, finishing, recycling and injection moulding of PVC-U systems and profiles for the construction industry.

The company is active in over 91 countries with 21 warehouses and 15 production sites supported by 3,682 employees; the headquarters and coordination centre of the Group is located in Hoogede-Gits (Roeselare), Belgium and is quoted on the Euronext stock exchange.

A strong belief in ongoing investment into research and development, logistics, facilities and staff skills has ensured that Deceuninck leads the way in product design and innovation of its windows & doors, interior, roofline and cladding systems, and outdoor living solutions.

Deceuninck gives priority to innovation in materials, products and applications. These innovations include the patented UV-resistant Decoroc coating system, Twinson that merges the benefits of wood and PVC into a single base material used for claddings and decking shapes, and Linktrusion®, a revolutionary technology that combines processes and materials to produce profiles stronger, lighter and more thermally efficient than traditional PVC-U extrusion. Deceuninck employs a cradle-to-cradle philosophy in its design and manufacturing. Its products provide years of quality service, after which they can be fully recycled. This policy has led to achieving ISO 9001 (certifications for Deceuninck NV - Corporate, Deceuninck NV - plant Gits (headquarters) and Deceuninck Compound (raw material supplier to the group)).

The UK subsidiary, based in Calne, Wiltshire, was established in 1981. Whilst benefiting from the wide product range, investment potential and research and development that a global group has to offer, it has built its success by developing long-term partnerships with a select group of fabricators that share a desire for quality products and service. Deceuninck Ltd, the UK subsidiary, has also achieved ISO 9001 and 14001 accreditation along with numerous standards for its products.

In line with its passion for excellence, the Deceuninck Group wants to project itself as an integrated world-wide group, specialising in the compounding, design, development, extrusion and finishing of PVC systems and profiles for the construction industry and in recycling. Satisfying customers is our ultimate goal at Deceuninck. This is based on a long term win-win situation for both customers and Deceuninck. We must therefore do everything in our power to ensure that customers are more than satisfied with our business partnership. As such, every aspect of our customer service must exceed market expectations.

'Passion For Excellence' encompasses; Financial Excellence – Deceuninck has successfully pursued a long-term policy of controlled growth and is now a world leader in the design, production and distribution of extruded PVC-U profiles.

Market Excellence – Deceuninck takes great pride in the wide range of products, training and expertise that the company offers to its worldwide customer base.

Operational Excellence – Deceuninck strives to maintain and improve upon the outstanding quality of products and logistics which is responsible for much of the company's success.

DECEUNINCK

ENVIRONMENTAL POLICY

Deceuninck Limited is committed to protecting the local and global environment of the Earth. To minimise environmental impacts concerning our activities, products and services. To strive for continual improvement of the environmental element of the Integrated Management System and to enhance our environmental performance we shall:

- Comply with applicable legal requirements and other requirements to which the company subscribes which relate to its environmental aspects.
- To include the consideration of environmental issues in all business strategies and initiatives.
- Deceuninck Limited senior management are committed to ensure that protection of the environment is firmly embedded in both the company's and all employees' culture and will endeavour to influence its suppliers and customers in a similar strategic environmental manner.
- Prevent pollution, reduce waste and minimise consumption of resources.
- Consider the wider global impact of all our activities, including those of our suppliers, customers and other stakeholders.
- Educate, train and motivate employees to carry out tasks in an environmentally responsible manner and ensure that a continuous professional development strategy remains core to our business goals.
- Encourage environmental protection among suppliers and sub contractors.
- Environmental objectives are to be set annually, monitored and communicated at regular intervals through the Integrated Management System meetings.

Deceuninck Limited is committed to continual improvement and environmental performance. This policy will be communicated to all staff, contractors and suppliers, and be available to the public if requested.



DECEUNINCK

THERMAL CHAMBER INSULATOR

As a responsible organisation, Deceuninck Group has been recycling its own production waste and off-cuts of window profiles (post manufacturing waste) for quite some time.

As a supporter of Vinyl Plus, a 10 year voluntary commitment by the European PVC industry to enhance sustainability of its products and production over the full lifecycle, Deceuninck has committed to improving production processes and products, investing in technology, minimising emissions and waste and boosting collection and recycling.

As part of this on-going commitment towards sustainability Deceuninck is continually looking at ways of increasing the number of products which are produced from PVC-U waste and recycled into fully fledged products.

Through innovation and product development Deceuninck has found a solution for recycling its more difficult post industrial PVC-U waste, by inserting recycled PVC-U profiles into their own high quality PVC-U window frames, giving enhanced insulating properties, hence the name Thermal Chamber Insulator (TCI).

THERMAL PERFORMANCE

By its location inside the window frame, TCI sometimes mistakenly gets called a reinforcement. Steel has many benefits with regard to structural rigidity but by its very nature is a good conductor and therefore has a negative effect on the overall thermal performance of a window. TCI is not a reinforcement for PVC-U windows but a genuine commitment by Deceuninck to both reduce the carbon footprint of its manufacturing processes by minimising the amount of waste which potentially may go to landfill, but to also make Deceuninck fenestration products more thermally efficient once they reach the 'In-use' phase of the product lifecycle, by reducing the amount of heat loss from inside the building to outside, resulting in reduced heating bills and less carbon emissions. Twice the environmental saving!

Through indicative modelling we have discovered by using TCI inside certain profiles, window and door energy ratings can be improved, in some cases enough to attain the prestigious A, A+ and A++ rating bands where it was not previously possible to do so.



ACCREDITATION

TCI was launched with full British Standards Kitemark approval, for weather testing and enhanced security, having been successfully tested to BS 6375 and PAS24 respectively.

Please contact the Deceuninck Technical Department on: 01249 810415 for weather performance rating, maximum allowed size criteria and approved hardware specification.

PRODUCT FEATURES

TCI also brings a number of benefits to the window manufacturing process through its unique material properties, such as:

- Less risk of weld contamination due to the removal of steel and the grease used to protect it from rust.
- Can be cut with a standard chop saw suitable for PVC-U, reducing the need for using steel saws and the resulting danger of contamination of coolant oils during welding.
- No sharp edges, reducing the risk of injury to operatives
- Can be optionally mitred and welded at corners, reducing the amount of reinforcement retention screws needed bringing associated cost savings.
- TCI weighs less than steel, making windows lighter, giving not only health and safety benefits but importantly making savings on lorry load delivery weights and associated CO₂ savings.
- Using our own recycled material to manufacture TCI, we can avoid any market price volatility for material we must source from elsewhere, such as steel.

DECEUNINCK

QUALITY, RECYCLING & ENVIRONMENT



To ensure full control over the quality of our products, Deceuninck produces its own raw material and tooling. By designing and manufacturing our own dies and calibrators, we can also constantly monitor and maintain existing tools to guarantee consistently high-quality products.

For a global company of this scale, efficient logistics are essential. Deceuninck has developed its own computer software to assist in this area;

Deceuninck Online is a business-to-business package that enables Deceuninck customers to view stock levels, place and track orders and monitor their purchase history, access product literature and calculation programs for material take off's, U Values and Window Energy Ratings.

A perfect window requires good profiles, sound manufacturing processes and excellent installation. To create these conditions, the Deceuninck Technical Team work closely with customers to train staff, commission profile-related tooling and advise on the setting and monitoring of the high standards required. The role played by Deceuninck is not restricted to selling PVC-U profiles but entails passing on detailed technical knowledge gained through years of experience.

Deceuninck gives the same priority to quality, accident prevention, safety, health and environmental protection as it does to production, marketing and performance. This is an "Integrated Prevention Policy" for which the necessary resources are made available.

Over the years, Deceuninck has developed a strict environmental policy throughout the world. In Belgium, this policy is supported by the annual participation in the Environmental Charter of the province of West Flanders.

Scientific research carried out on an international scale has shown that PVC-U as a material is a sustainable, responsible choice providing comfort, quality and safety. Indeed its cost to performance ratio means that citizens of many income groups can enjoy these benefits. CO₂ is a major contributing factor in global warming but the sustainability of all materials should be judged not only on the embodied CO₂ produced in manufacturing a product but from the whole life cycle including the in 'in-use' phase through to disposal. Plastics are often seen

as symbols of a throw away society but PVC-U is durable, long lasting and does not corrode, not to mention its excellent thermal efficiency properties. Studies show that double glazed PVC-U windows are twice as energy efficient as double glazed aluminium windows. In fact, ecologically PVC-U fares favourably with all materials used for fenestration.

Deceuninck has been recycling its own production waste and the cut-offs of window profiles (post manufacturing waste) for quite some time, but recently found solutions for recycling more difficult post-consumer PVC waste, like broken window frames, old roller shutters, building profiles and drainage pipes. To do this Deceuninck developed Cyclefoam®, a foam process in which processed post-consumer waste is extruded using innovative technology to produce high-quality profiles like our acoustic barrier system for highways and Belface, a heavy duty cladding system. Another recycled product success was the development of our TCI sections, TCI stands for Thermal Chamber Insulator, and used across many of our PVC-U window systems.

PVC-U used in building products or windows have an average life of 35-50 years. PVC can be recycled up to 10 times without a problem. That means that one kilo of raw material has an average life of 350-500 years. As members of the British Plastics Federation, Deceuninck support the Recovynyl Scheme. Recovynyl is a European wide initiative to collect and recycle post consumer PVC building products to support VinylPlus, the European PVC industry's ten-year Voluntary Commitment to sustainable development. Consistently, since inception of the scheme in the UK has led the way in the volume of PVC collected and recycled in Europe.

Plastics are also socially sustainable. The UK plastics industry is socially inclusive and offers a wide range of worthwhile careers with considerable room for career development, progression and training and provides jobs to some 180,000 people. PVC itself has proven durable, low maintenance, thermally efficient and therefore a cost effective solution for numerous construction projects. PVC is also safe and is essential in modern day healthcare, in applications including blood bags, catheters and blood transfusion sets.



Secured by Design



Official Police Security Initiative

DECEUNINCK

SECURED BY DESIGN



Secured by Design (SBD) is an initiative by The Association of Chief Police Officers (ACPO) to design out crime in the planning stage prior to construction of new home developments and commercial premises. SBD principles are also regularly used within the refurbishment sector.

Windows and doors are required to meet minimum security standards in accordance with the design guide requirements: PAS24 provides a method for testing and assessing the enhanced security performance of external doorsets and windows providing an easier specification requirement for developments.

Deceuninck are members of The Secured By Design initiative and operate a group scheme in association with ACPO, where manufacturers of our products are able to gain SBD approval through testing to an agreed specification as part of a certification scheme. Once accepted manufacturers are permitted to market their products using the 'Secured by Design' and 'Police Preferred Specification' logos.



BS EN 14351-1 Windows and doors – Product standard, performance characteristics – Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics is the standard used throughout Europe for manufacturers to demonstrate fitness for purpose and affix the CE Mark to fenestration products.

Deceuninck have ensured that the characteristics required for application in the UK

- U-Value from a notified body
- Load bearing capacity of safety devices
- Dangerous substances

have been assessed on all UK window and door types where applicable along with many of the mandated characteristics covered in Annex ZA of BS EN 14351-1.

Deceuninck are able to cascade these test results to manufacturers in a structured manner which providing that all other criteria is met under BS EN 14351-1, would allow manufacturers to affix the CE Mark.

COMMERCIAL WINDOW AND DOORS



COMMERCIAL WINDOW AND DOORS



NBS Plus

Our technical product information is included in this dedicated library of manufacturers' product information, contained within the UK's industry-leading specification products NBS Create and NBS Building.

Products listed in NBS Plus are directly linked to specific clauses and can be imported instantaneously into a specification. NBS Plus contains over 20,000 product specifications and is updated regularly, so designers can be confident that they are always referencing the very latest product information.



RIBA Product Selector

Find our product catalogues, technical documents and design files within the industry-leading and definitive online index of manufacturers' product information.

RIBA Product Selector is a free resource for construction professionals to research and select construction product and service information for all types of building design projects, and can be browsed by CI/SfB classification to assist with product selection.



NBS National BIM Library

Our products are available as BIM objects within the UK's fastest growing BIM Library where they are placed directly in front of specifiers working on Level 2 BIM projects.

The NBS National BIM Library is free to use and is the only BIM object library which links directly to NBS specification software and to the NBS BIM Toolkit – an essential requirement for Level 2 BIM. All our objects are authored to meet the requirements of the internationally-recognised NBS BIM Object Standard.

TECHNICAL SERVICES AND SPECIFICATION SUPPORT

The prime objective of Deceuninck Specification Support is to help you specify the correct product for your project. Specification Support also forms an essential link between architects, specifiers and approved Deceuninck fabricators and installers. The team provide informed guidance on the use of products, samples, drawings and specifications with contact maintained throughout each stage of a contract to completion.

Deceuninck can offer a technical and design service for suitable schemes embracing:

- Product selection and application
- Technical review to confirm compliance with Building Regulations Approved Documents
- Eurocode compliant wind load calculations
- Framing construction and design solutions
- Generation of scheme CAD drawings for tendering purposes
- Installation details
- Technical specification
- Contract specific acoustic testing
- Window or corner section samples for client/authority approval

Training

A great deal of support is provided to fabricators and installers at their own premises to ensure that processes are carried out correctly, efficiently and to the high standards demanded.

Deceuninck also offers training at its dedicated Training School covering essential areas of fabrication on a one-to-one or small group basis.

For more details simply contact our specification team on 01249 810415






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Deceuninck Limited
Porte Marsh Industrial Estate
Calne, Wiltshire SN11 9PX

Email: deceuninck.ltd@deceuninck.com
Web: www.deceuninck.co.uk
www.heritagewindowcollection.co.uk

 **01249 816969**