

ConceptSystem 77

Windows optimised for safety and comfort



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Aluminium

With 60 years of global product development,
7 testing centres worldwide and products that
are easy to fabricate and install, you can be
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A complete and trusted window solution

ConceptSystem 77 windows have been fully optimised to match your specific project needs.

The versatile Cradle to Cradle Certified® system offers a range of variants and options, including thermal and safety upgrades, at a very competitive price-performance ratio.

The reliable, tried-and-tested CS 77 windows ensure great comfort in multiple insulation levels, are available in over 400 RAL colours and finishes, and can be effortlessly combined with Reynaers’ other systems.

After years of continous improvements, CS 77 windows are a perfect match for your contemporary building requirements.

Now available as an outward-opening solution to suit the demands of the UK market, this window system features friction hinges and an espagnolette locking system, achieving PAS 24 certification.



Versatile window solution to match any project needs

With an extensive range of opening types and built-in connectivity with our sliding, folding, and curtain wall systems, these versatile windows are the missing piece to your project. Featuring subtle hardware and integrated drainage solutions, certified safety features, and elegant handles, these doors are engineered for both performance and style.



Well-balanced price-performance-features mix

When you take into account aesthetics, versatility and AWW performance, ConceptSystem 77 windows are an exceptional choice. The universal design answers to many local building needs, whilst up-to-date performance levels meet contemporary project requirements. CS 77 offers all this at a competitive price point.



Reliable windows that last a lifetime

ConceptSystem 77 is a preferred window solution for building professionals and homeowners across the world. This tested and proven legacy system guarantees fail-safe results, both during manufacturing and day-to-day use. An ideal match for both new-builds and renovation projects, these sturdy profiles have been perfected to last for generations.

ConceptSystem 77 Window Options



Concealed drainage

Thanks to this concealed drainage solution, you no longer need plastic cover caps to hide drainage holes. As a result, you always enjoy clean lines, minimalistic design, and excellent performance.



Glass corner

Our glass-to-glass joinery connections enable wide panoramas without profiles obstructing your view. High-quality performance and a unique design are guaranteed in one solution.



Glass balustrade

Safety can equal beauty. We enhance our windows with this elegant glass barrier to avoid accidents, especially in high-rise buildings.



Flyscreen

We offer flyscreens in two variants: traditional and visible, or integrated and concealed. Often overlooked at first, it is one of the most popular options amongst our customers.

Safety

ConceptSystem 77 is our window series with the broadest range of safety features. With the help of our international testing partners, we can offer certified burglarproof and bulletproof protection (FB4, FSG, Kalashnikov). Our safety solutions can be integrated into public buildings such as banks, hospitals or police stations.*

*Performance levels and properties of our safety products depend on size, profile combinations, hardware and infill choices. Additionally, local approvals and regulations may change the values mentioned in this document. Please contact your local Reynaers Aluminium representative for guidance.



Photo: @Hufton+Crow

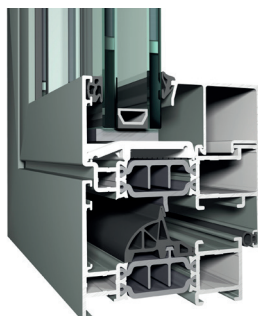


Smart Buildings

Our window systems are compatible with the industry’s leading smart building systems. Through a range of intelligent solutions, our systems do the work for you at the push of a button. Open and close hard-to-reach windows with the help of a switch or your smartphone device, and enjoy some additional peace of mind thanks to our motorised solutions. Ask your Reynaers Aluminium representative for more details.

ConceptSystem 77 frame options

Functional



Hidden Vent



High Insulation



*Please note that the cross sections shown above are for an inward opening window solution.

Technical specifications

Minimum visible widths (mm) (outward opening window)	Frame	17.5
	Vent	76
Overall system depths (mm)	Frame	68
	Vent	77
Minimum visible width T-profile (mm)		76
Rebate height (mm)		25
Glass thickness (mm)		4 to 52
Glazing method		Dry glazing with EPDM or neutral silicones
Thermal insulation		Omega-shaped fibreglass reinforced polyamide strips
High insulation variant (HI)		Available

Performance data

Thermal Insulation ¹ EN ISO 10077-2	Uw ≥ 1.3W/m²K for a standard (window) section ² depending on the frame/vent combination and the glass thickness
Acoustic performance ³ EN ISO 140-3; EN ISO 717-1	Rw (C; Ctr) = 42 (-2; -4) dB, depending on glazing type
Air tightness, max. test pressure ⁴ EN 1026; EN 12207	600Pa (Class 4)
Water tightness ⁵ EN 1027; EN 12208	900Pa (Class E900)
Wind load resistance, max. test pressure ⁶ EN 12211; EN 12210	2000Pa (Class C5)
Wind load resistance to frame deflection ⁶ EN 12211; EN 12210	C (≤ 1/300)
Burglar resistance ⁷	PAS 24 - RC2 - RC3

Notes

This table shows possible performance classes and values and is a guide only.

To obtain exact performance values for your chosen system configuration please contact a member of our Technical Team.

¹ The Uw-value measures the heat flow. The lower the Uw-value, the better the thermal insulation of the window.

² Window dimension 1.23m x 1.48m.

³ The sound reduction index (Rw) measures the capacity of the sound reduction performance of the frame.

⁴ The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.

⁵ The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.

⁶ The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force. There are up to five levels of wind resistance (1 to 5) and three deflection classes (A,B,C). The higher the number, the better the performance.

⁷ The burglar resistance is tested by static and dynamic loads, as well as by simulated attempts to break in using specified tools. This variant requires specific burglar resistance accessories.



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