

CS104... probably the most thermally efficient aluminium system in the world...



## Reynaers achieves unparalleled insulation values for windows and doors

Innovation and technological developments by Reynaers sees the introduction of a dedicated energy efficient system, the first of its kind in the UK, that is ideal to support Passive Building.

The window and door system - Concept System 104 (CS104) achieves a market leading  $U_w$  value of  $0.77 \text{ W/m}^2\text{K}$ .

The high performance delivered by CS104 provides clients, architects and developers with products that ideally complement other energy efficient materials for, and are fully compliant with, Passive Building. CS104 also offers  $U_f$  values down to  $0.88 \text{ W/m}^2\text{K}$ .

The high strength and stability of the CS104 system also allows it to support triple glazing for larger vents. This development ensures the structural and thermal properties of the products, whilst at the same time allowing architects greater design freedom and flexibility.

In addition, and emphasising the high quality of the Reynaers product range, there is also the photovoltaic integral curtain wall system CW60 Solar and sunscreening systems BS30 and BS100 Solar.

**The new CS104**

To be showcased at



Stand number  
N360



### Concept System 104 (CS104)

With legislation rapidly moving towards zero energy buildings, Reynaers new CS104 system, combined with other key products from the Reynaers range, can satisfy the increasing demand for energy neutral and passive workplaces and homes.

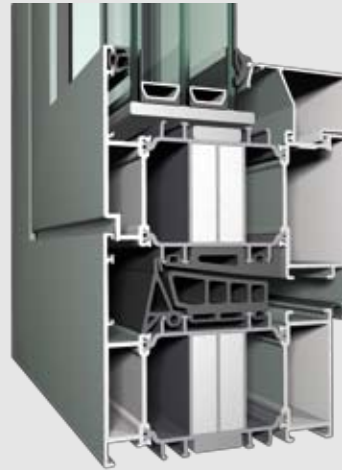
CS104 performs exceptionally well in extreme conditions having excellent wind and water tightness, and achieves values up to 600 Pa for windows and 300 Pa for doors. This makes the system suitable for use in the most challenging environments.

### Other energy efficient products in the Reynaers range:

**Sunscreening** - Reynaers offer a range of aesthetic and efficient shading solutions that protect buildings from solar gain and glare, reducing the reliance on air conditioning and increasing the green performance.

**Solar** - Renewable energy solutions from Reynaers, includes integrated photovoltaic cell technology in curtain wall (CW60 Solar) and sunscreening solutions (BS30 & BS100 Solar), meeting the increasing demand for Building Integrated Photovoltaics (BIPV).

**High Insulation (HI)** - Thermally improved, multi-chamber, high insulation variants of Reynaers curtain wall and window products, CW50-HI and CS86-HI achieve optimal U values.



CS104 System Insulation method patent pending



Product	CS104	CS86-HI	CW50-HI
Uf Value (frame)	0.88 W/m <sup>2</sup> K	1.09 W/m <sup>2</sup> K	1.31 W/m <sup>2</sup> K

The Uf value measures the heat flow. The lower the value, the better the thermal insulation of the frame. The tabulated values have been calculated according to EN10077-2 2003. Curtain walling to EN13947 2006.

### Aluminium - The Green Material

Achieving fully sustainable buildings using 100% recyclable aluminium, Reynaers products are at the forefront of green development. Constantly innovating and updating the already expansive product range, Reynaers look to combine functionality and performance with style, sophistication and sustainability.

### Amnesty International

Together with E-max, a Belgian aluminium extruder, Reynaers recently undertook the renovation of the old aluminium façade of Amnesty International's office in Belgium. Removing the windows, re-melting them, and extruding the aluminium into new profiles. The entire recycling process was documented and can be viewed by scanning the QR code with your smartphone or by visiting [www.reynaers.com/recycling](http://www.reynaers.com/recycling)

QR Code



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