INTRODUCING THE

REAL ALITHERM 400 SYSTEM



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WHY REAL?

Welcome to REAL Aluminium. We've been providing Architects, Installers and Homeowners with outstanding aluminium window and door systems for over a decade. At our state-of-the-art Gloucester facilities, we fabricate only the finest aluminium profiles into spectacular products that feature slim design for narrow sightlines, an impeccable finish, superior strength, and impressive thermal performance

Today, aluminium is the go-to choice for those with a taste for high quality, contemporary living, stylish aesthetics and performance. And to ensure we meet the needs of our customers, all of our aluminium systems are available as:

What's more, all are available on short lead times and backed by the support of exceptional customer service and hands-on technical expertise. Expertly constructed for unrivalled performance and quality, our beautiful Alitherm 400 range of window and door systems take your options further, with modern design and flexible operation.



Casement windows



Bi-Folding Doors



Sliding Doors



Residential Doors



REAL ALITHERM 400 SYSTEM.

TAKING GREAT PERFORMANCE FURTHER.

Alitherm 400 is our premium system. It's manufactured incorporating an extruded glazing gasket, which serves to enhance performance and improve installation time. As the first of its kind to be built into a thermally broken aluminium system, it combines outstanding quality and value with leading class performance and security.

Its innovative design features polyamide thermal break technology that significantly reduces thermal transmittance by creating a barrier between the cold air outside and warm air inside, enhancing the systems overall 'U' value. The system is also rigorously tested to PAS 24:2016 as standard and exceeds the requirements for weather resistance and security performance.

Document L Compliant:

Changes to Document L and F of the Building Regulations in England were introduced on the 15th June 2022, to ensure all new and renovation projects are on-spec for thermal efficiency, energy efficiency and ventilation capability.

Our Alitherm 400 aluminium system is manufactured using the highest quality and have been specifically engineered to meet the new Document L regulations. We have also compiled specific product documentation that will help you understand what is required to be compliant with the new regulations.



Alitherm 400
Windows

Alitherm 400 windows are currently available in two options. The popular Alitherm 400 I range is an internally beaded system with dummy sashes which can achieve PAS 24 security standards. Alternatively, we have the externally glazed Alitherm 400 X range, which can be upgraded to PAS 24 security standards with the introduction of glass security clips.



Window Type	Maximum Width (mm)	Maximum Height (mm)	Frame Depth (mm)	Maximum Perimeter (mm)	Glazing Units	Security Standard	Air Permability Classification	Water Tightness Classification	Resistance to Wind Classification
Sash dimensions for windows with approved sash profiles:									
Side Hung	864	1400	70	-	28, 40	PAS 24:2016	Class 4	AE2400	2000+
Top Hung	1400	1500	70	-	28, 40	PAS 24:2016	Class 4	AE2400	2000+
Fixed	2100	2100	70	42	28, 40	PAS 24:2016	Class 4	AE2400	2000+

Note: Alitherm 400 X windows require wedge gasketing.

Alitherm 400
Doors

Suitable for both residential and commercial applications, Alitherm 400 doors perfectly complement the Alitherm 400 window range, offering the same stylish lines and same ease of fabrication and installation. With unrivalled thermal performance and security assurance, the system is available as open-in or open-out, single or double doors.



Door Type	Maximum Width (mm)	Maximum Height (mm)	Frame Depth (mm)	Glazing Units	Security Standard	Air Permability Classification	Water Tightness Classification	Resistance to Wind Classification
Sash dimensions for doors with approved sash profiles (double door dimensions include both sashes):								
Single Door Open In	1100	2400	70	28, 40	PAS 24:2016	Class 4 600Pa	Class 3A 100Pa	Class C3 1200Pa
Double Door Open In	2200	2400	70	28, 40	PAS 24:2016	Class 4 600Pa	Class 3A 100Pa	Class C3 1200Pa
Single Door Open Out	1100	2400	70	28, 40	PAS 24:2016	Class 3 600Pa	Class E 900Pa	Class C3 1200Pa
Double Door Open Out	2200	2400	70	28, 40	PAS 24:2016	Class 3 600Pa	Class E 900Pa	Class C3 1200Pa



INSTALL WITH CONFIDENCE.

Alitherm Quick-Glaze Bead

Alitherm 400 isn't just beautiful – it's clever. With an innovative Quick-Glaze Bead system on internal glazing, you can simply tap the bead in on-site with the gasket already in place. No wedge gaskets – just a faster, simpler and more cost-effective glazing process.

Alitherm Quick-Glaze Bead is available in Naturals colours White (WP), Black (BL) and Anthracite Grey (KL005).

Note: Wedge gaskets are required on the Alitherm 400 X externally glazed range.



Alitherm 400 WINDOWS





Alitherm 400 DOORS





At a glance:

- Fully compliant with changes to document L of the building regulations
- Improved thermal and weather performance
- Brand new quick glaze bead for a simpler, faster and cost-effective glazing process
- PAS 24: 2016 approved for added security
- Unlimited colour choice provided by any RAL colour on top of the 4 stock colour collections

REAL Service. REAL Support.

From the point of placing your customer's order, our dedicated and committed team is on hand to ensure it's processed efficiently and professionally, whilst keeping you informed along the way until you receive your beautiful REAL Aluminium windows or doors ready for installation. With REAL, you'll have the customer and technical support you need from start to finish – and in the future.

In stock, ready to deliver.

Each and every product within the REAL Aluminium range is manufactured from stocked profile and components. Should there be any requirements for replacements or remakes these can be turned around in 1 week, compared to 3 weeks or more for non-stocked products.

Marketing support

Our Marketing Team are happy to support you and are on hand to help. Contact The Trade Village on 01642 309 574 for more information.

Customade Group

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MORE SKY LESS ROOF™

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