



## CLASS LEADING ENERGY EFFICIENCY

Warm, secure and beautiful  
aluminium-hybrid bi-folding doors.



**KÖMMERLING®**



# BEAUTIFUL, STRONG AND SECURE

**Introducing a door that is  
25% more thermally efficient  
than the competition.**

Built around a belief that beauty doesn't have to compromise performance, WarmCore aluminium-hybrid folding sliding doors were created out of a desire to combine the desirability and durability of aluminium with unparalleled insulation.

The orange thermal core - hidden away in the finished doors - is key to why WarmCore doors are 25% more thermally efficient than traditional aluminium systems.

Strong and secure, WarmCore doors come with class leading security built in, backed by a comprehensive 10 year product guarantee, reinforced by the ERA Five Star security guarantee. Inwards or outwards opening doors up to 6m wide, with as many as 7 opening sashes glide along custom designed tracks. While a wealth of colour, style and configuration options help you choose the perfect warm, secure and beautiful WarmCore door for your home.

**Built with a revolutionary  
thermal core at its heart.**

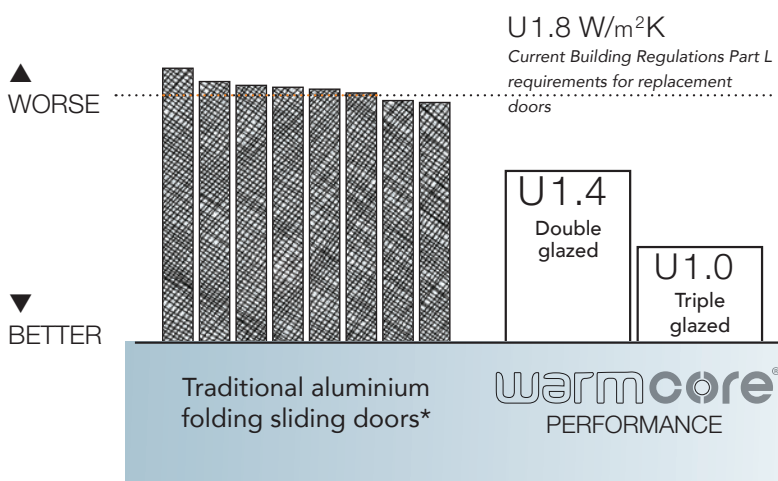
# WARM, WIDE SPAN DOORS FOR MODERN LIVING

**WarmCore, the warmer choice that saves you money.**

## **The traditional weakness of aluminium doors has been the aluminium itself.**

While a beautifully strong and hard-wearing material, aluminium is a good conductor of energy. Meaning that the warmth from your home finds an easy path outside, leaving you colder and with higher heating bills. Most aluminium folding sliding doors try to overcome this inherent weakness by replacing a section of aluminium with a small thermal break of less conductive material to lessen this heat loss.

WarmCore took a different approach, from inception this revolutionary folding sliding door was designed to be as thermally efficient as possible. Built around a full width thermal core - maximising the use of low conductive material - WarmCore is 25% more efficient at keeping heat in your home than traditional aluminium doors. Yet it doesn't compromise strength as the outer faces of the profile are high grade aluminium, positioned to add the greatest structural rigidity.



## **U-Values explained**

A U-Value is basically a measure of heat loss through a structural element. It is calculated on the rate at which heat transfers through 1 square metre of a structure and is stated in W/m²K. U-Values are used by the construction industry to compare the thermal performance of different materials and products.

\* Data correct at time of publication. Based on nine UK aluminium double glazed folding sliding doors with the following U-Values: 1.94, 1.87, 1.85, 1.84, 1.83, 1.83, 1.81, 1.77, 1.76





**The sleek architectural look that lowers fuel bills.**

## **WARMER BY DESIGN**

**Market leading  
thermal performance.**

WarmCore has been designed from the ground up to offer market-leading thermal performance, and comfortably meets the requirements of Building Regulations - Part L.

Traditional aluminium doors struggle to meet current legislation, forcing you to choose aluminium aesthetics and finish over thermal performance. WarmCore gives you both, with its innovative full-width thermal core.

This unique composite construction creates the most thermally efficient folding sliding door in its class. This design philosophy has produced a folding sliding door that has exceptional thermal performance, helping keep fuel bills lower and heat in your home, while retaining the sleek and architectural look of aluminium.



**Doors that integrate  
indoor and outdoor living.**







# STYLISH INTERIORS, BROUGHT TO LIFE

Helping transform your living space.

**Modern living is about creating spaces that work for you and your family, that adapt to the needs of the moment.**

Gone are the days of rigidly defined spaces. WarmCore folding sliding doors were born from this ethos, and their flexibility helps your home become a space that works for you.

Open and airy on beautiful summer days, warm and insulating in the colder months. WarmCore doors help integrate outside living space with interiors, enhancing both.

Truly transformative, WarmCore doors will help breathe life and light into your home.





## FLEXIBILITY BUILT-IN

Practical for everyday use.





**The innovative design of WarmCore folding sliding doors enables you to split the door sashes in whichever way suits your home.**

You can have all the sashes fold to the right or left, or have them split in any combination you choose.


A popular configuration is to have a single door at one end, called a traffic door. This allows you to leave the majority of the door sashes locked in place, using a single door for everyday use.

In addition certain door configurations offer even more practicality, as the door sashes that meet in the middle, or at one end, can be used as a set of French doors - when you don't need, or want, the doors fully open.

This flexibility enables you to use your WarmCore folding sliding doors in a way that suits you, rather than being forced to fully open them every time. Leave that until you're entertaining or when the day is so good it deserves to be let in.

**Sashes that fold  
or split in any  
combination.**





**Sleek lines, and outstanding  
attention to detail.**





# BEAUTIFUL AESTHETICS

**For perfect alignment.**

**Whether you are tucked up inside watching TV with your WarmCore folding sliding doors protecting you from the elements, or hosting a garden party with the doors wide open on a bright spring day, you can be assured your doors will look pristine.**

Attention has been paid to how the doors look when stacked open, something often overlooked on traditional door systems.

When open, all sashes stack neatly inline with each other and are kept perfectly parallel using discreet magnets.

Open ends of door sashes, hidden from view when the door is closed, are also carefully cloaked in uniform black for a neat and thought-through appearance.





# KEEPING YOU AND YOUR HOME SAFE

**Strong construction built for unparalleled security.**

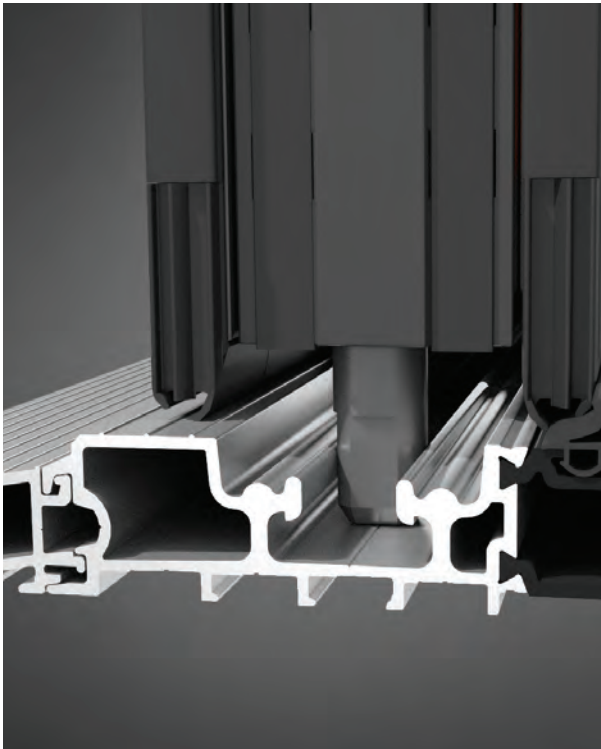


**From the unique 5 point lock, designed to run the full length of the door sash, to the high strength hinges and rollers; each element of the WarmCore door combines to ensure optimum security.**

WarmCore's aluminium-hybrid construction, custom-made roller assemblies - sitting deep within the top and bottom tracks - and extruded aluminium hinges make them inherently strong and secure. Added security features such as integral dog bolts bind the door sashes together when closed, protecting against forced entry.

A custom designed door lock that isn't available on any other door system. It uses a 5 point locking system with 3 opposed hook locks and twin shoot bolts - that engage fully into the aluminium top and bottom tracks - helping keep you and your family safe and secure.

Every WarmCore door is independently certified to PAS24:2012, the benchmark in enhanced security performance requirements for doorsets and windows in the UK.



**Secured by Design**



**Police Preferred Specification**

For added peace of mind choose the optional laminate glass upgrade – giving WarmCore doors Secured by Design accreditation - the official UK Police initiative 'designing out crime' through physical security.



**A custom designed door lock that isn't available on any other door system.**



## PEACE OF MIND - GUARANTEED

With hardware developed in partnership with one of the UK's leading home security manufacturers - ERA - WarmCore doors are covered by the comprehensive ERA Five Star Guarantee. Providing exceptional security and peace of mind.

### **24/7 help when you need it**

The ERA Five Star Guarantee gives access to a FREE call out service so you have the reassurance of knowing that, in the unlikely event of a forced entry, a trained professional will come to secure your property.

### **Up to £1,000 home insurance excess paid**

ERA are so confident in the quality, reliability and security of the WarmCore door, they will even pay the excess on any home insurance claim due to the failure of an approved component - so you can be rest assured that you're covered.

### **Up to £1,000 towards a repair or replacement**

ERA's research and development team are so confident that WarmCore will outwit any would-be burglars that if the ERA Five Star Guarantee approved component has failed, ERA will pay up to £1,000 towards the cost of replacing or repairing your doors.

### **A £1,000 cheque to compensate you**

In the unlikely event of a break-in succeeding through the failure of a component covered by the ERA Five Star Guarantee, you will be given a cheque for £1,000 to compensate you for the inconvenience caused.

### **Savings on the cost of your home insurance**

By choosing to fit WarmCore with the highest levels of security, you can save money on your home insurance, year after year.

\*Full T&C's of ERA's Five Star Guarantee available separately.





# 10 YEAR COMPREHENSIVE GUARANTEE AS STANDARD

**From the anodised finish of the hardware - suitable for coastal use - to the 60-80 micron powder coat finish on the aluminium (marine grade is 40 microns thick), WarmCore folding sliding doors have been designed to stand the test of time.**

All fixings used are stainless steel - chosen to resist corrosion - and tough extruded aluminium hinges, along with the quad-wheeled track rollers are precision engineered to perform consistently every single time, year on year.

In keeping with this attention to quality, WarmCore doors carry a comprehensive 10 year guarantee - covering materials, surface finish and operation. So you can feel confident in your decision to add WarmCore folding sliding doors to your home.

**Designed to stand the test of time.**

\*Full T&C's available separately.



**WarmCore - creating spaces  
that breathe.**









**A choice of 15 hard-wearing  
powder coated finishes and  
6 woodgrain foils.**





# YOUR DOOR, YOUR WAY

**A variety of options to suit your needs.**

**Whatever the style of your home, WarmCore folding sliding doors have the options that enable you to create the door that matches your needs.**

Available in a choice of 15 hard-wearing powder coated finishes and 6 woodgrain foils, WarmCore's unique composite construction enables you to choose a different colour for the interior of your door from the outside, at no extra cost.

There is also a choice of 4 external aluminium designs for the door sashes, 4 threshold options and a choice of 3 handle finishes, Matt Black, Brushed Graphite and Satin Silver.

The following pages detail the options available, to help you build your perfect door.



# CHOOSE A DIFFERENT COLOUR INSIDE AND OUT, AT NO EXTRA COST

The choice is all yours.

Available in a choice of 15 powder coated colours and 6 woodgrain foils, WarmCore allows you to pick a different colour for each side of your door - at no extra cost.

From contemporary Anthracite Grey to Heritage Cream and Honey Oak to Amaranth, your choice helps define the personality of your door and helps match the architectural style of your home. Want grey outside with white inside to leave you free to change your interior in the future? – with WarmCore that's no problem.

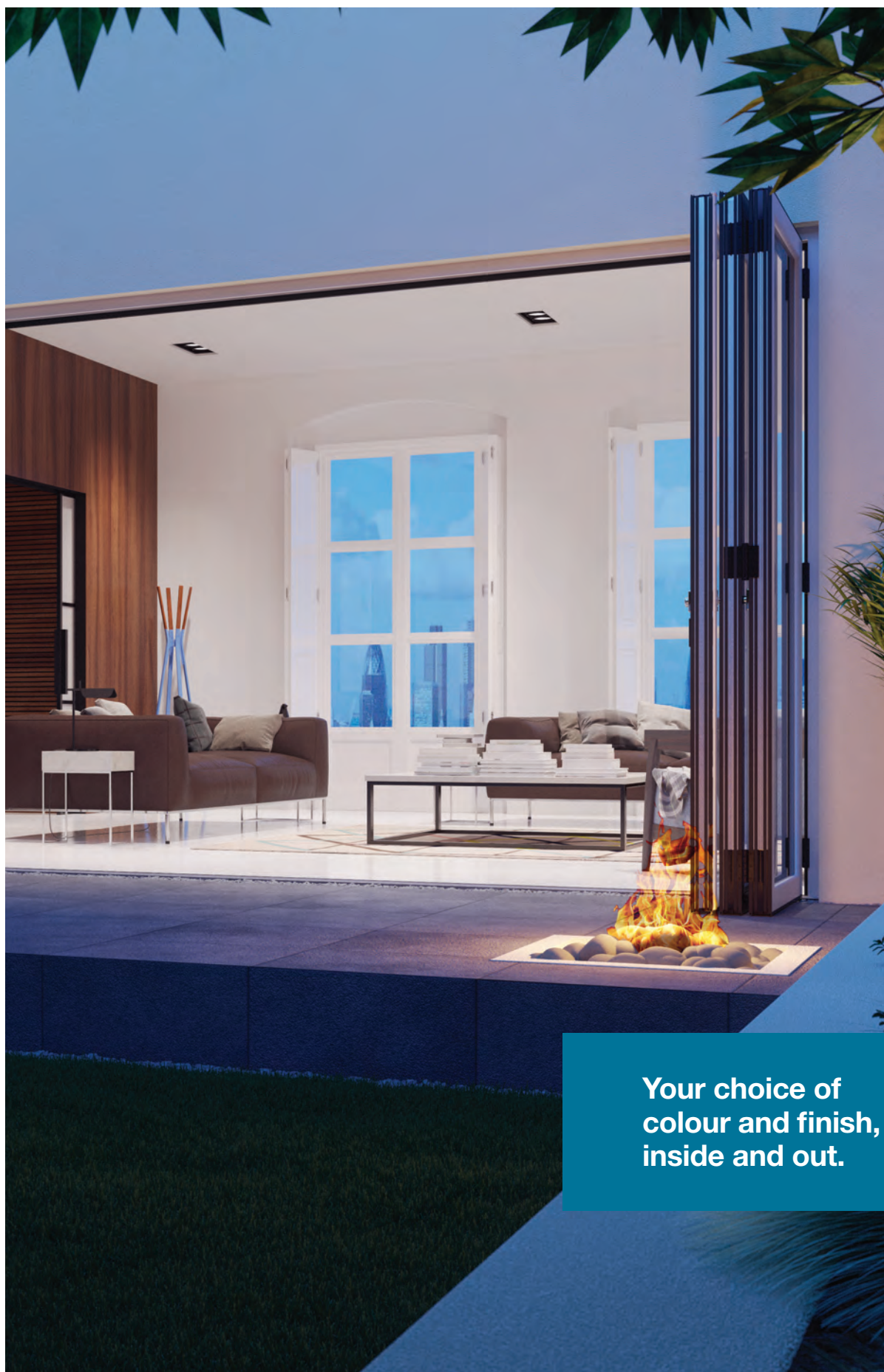
## Powder coated colours

Pure White	Anthracite Grey <b>RAL 7016</b>	Cream <b>RAL 9001</b>	Lavender Haze <b>BS 4800 22 B 17</b>	Telegrey 4 <b>RAL 7047</b>
Telegrey 2 <b>RAL 7046</b>	Dusty Grey <b>RAL 7037</b>	Slate Grey <b>RAL 7015</b>	Jet Black <b>RAL 9005</b>	Deep Saxe Blue <b>BS 381C 113</b>
Light Admiralty Grey <b>BS 381C 697</b>	Pebble Grey <b>RAL 7032</b>	Traffic White <b>RAL 9016</b>	Smoke Grey <b>BS 381C 692</b>	Antelope <b>BS 4800 08 B 21</b>

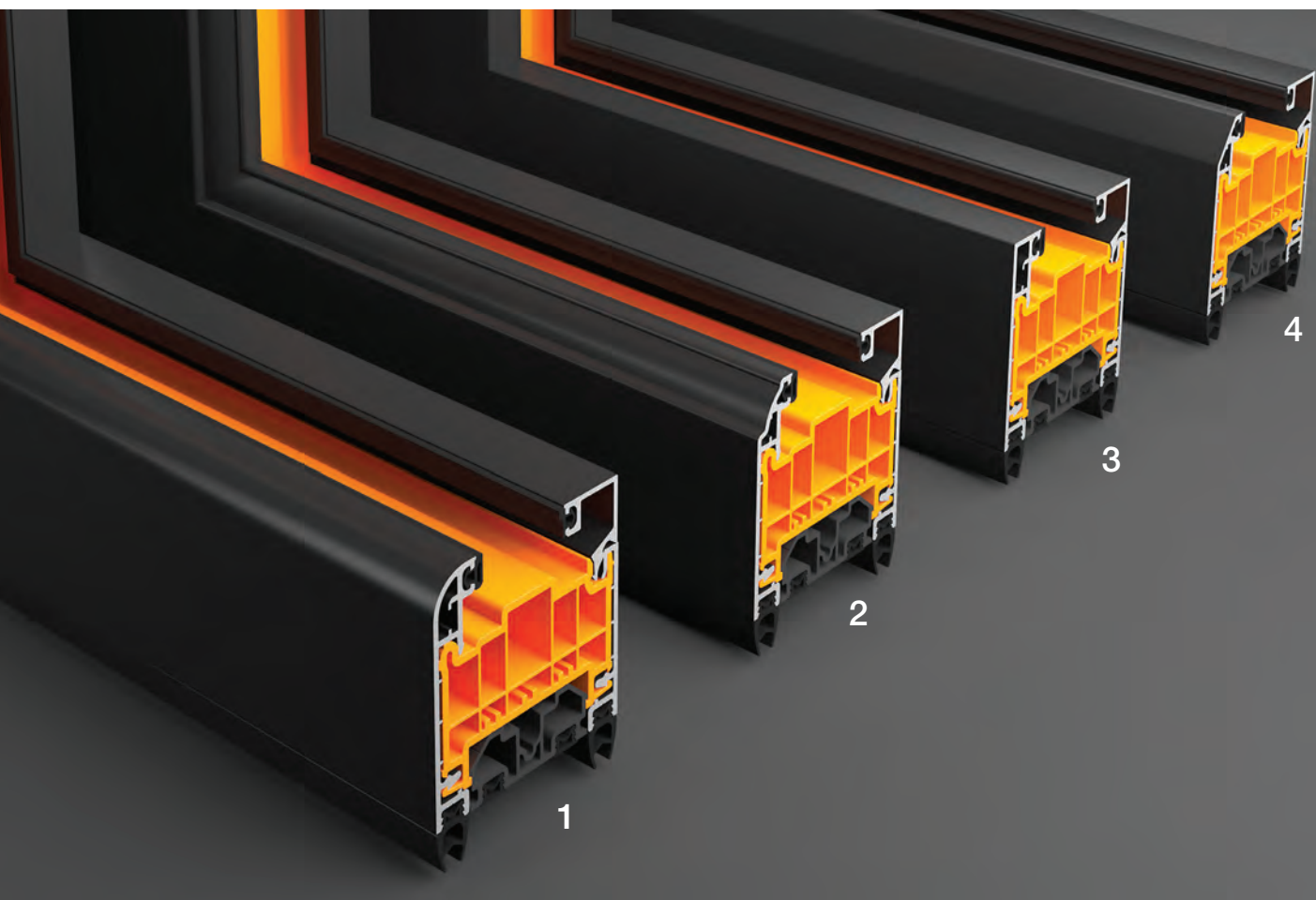
## Woodgrain foils

Light Oak <b>Super-Matt</b>	Ginger Oak <b>Super-Matt</b>	Honey Oak <b>Super-Matt</b>
Monument Oak	Amaranth	Macore





**Your choice of  
colour and finish,  
inside and out.**



# VERSATILITY THROUGH CHOICE

**A range of profile and handle styles.**

## **External sash styling**

A choice of 4 external aluminium door sash designs, ranging from a contemporary pencil round to a decorative sculptured look, enables you to personalise your door or echo the style of your existing windows.

**1.** Pencil round | **2.** Decorative | **3.** Square | **4.** Chamfered



### Graceful handles

WarmCore door handles gracefully curve around door sashes when open, tucking into the glass reveal and allowing the door sashes to fold perfectly flat.

### Traditional option

A high-security lever handle is also available, tested to PAS24 standards like the rest of the range. Available in Silver, Black and Brushed Graphite.

### 3 finishes

Available in 3 hard-wearing finishes, anodised Matt Black and Satin Silver or Brushed Graphite, choose the perfect match to complement your door.

1. Matt Black | 2. Satin Silver | 3. Brushed Graphite







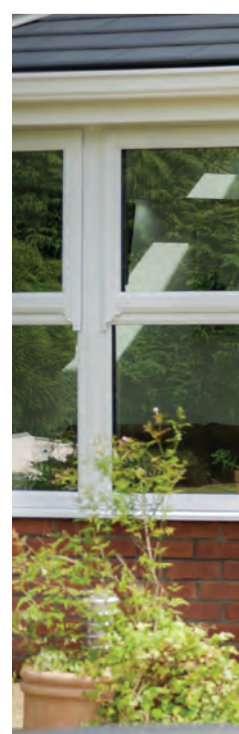
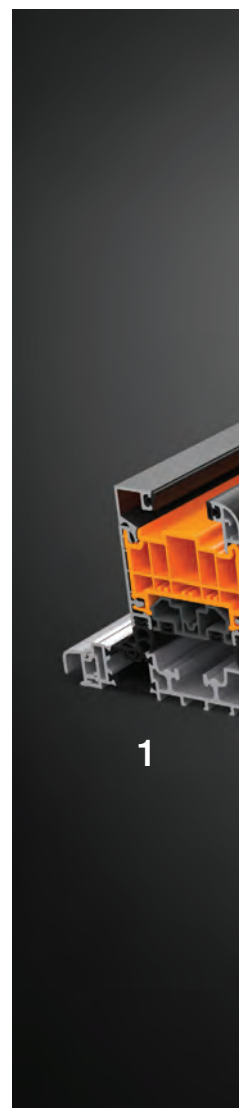
# FROM ONE TO SEVEN SASHES WIDE

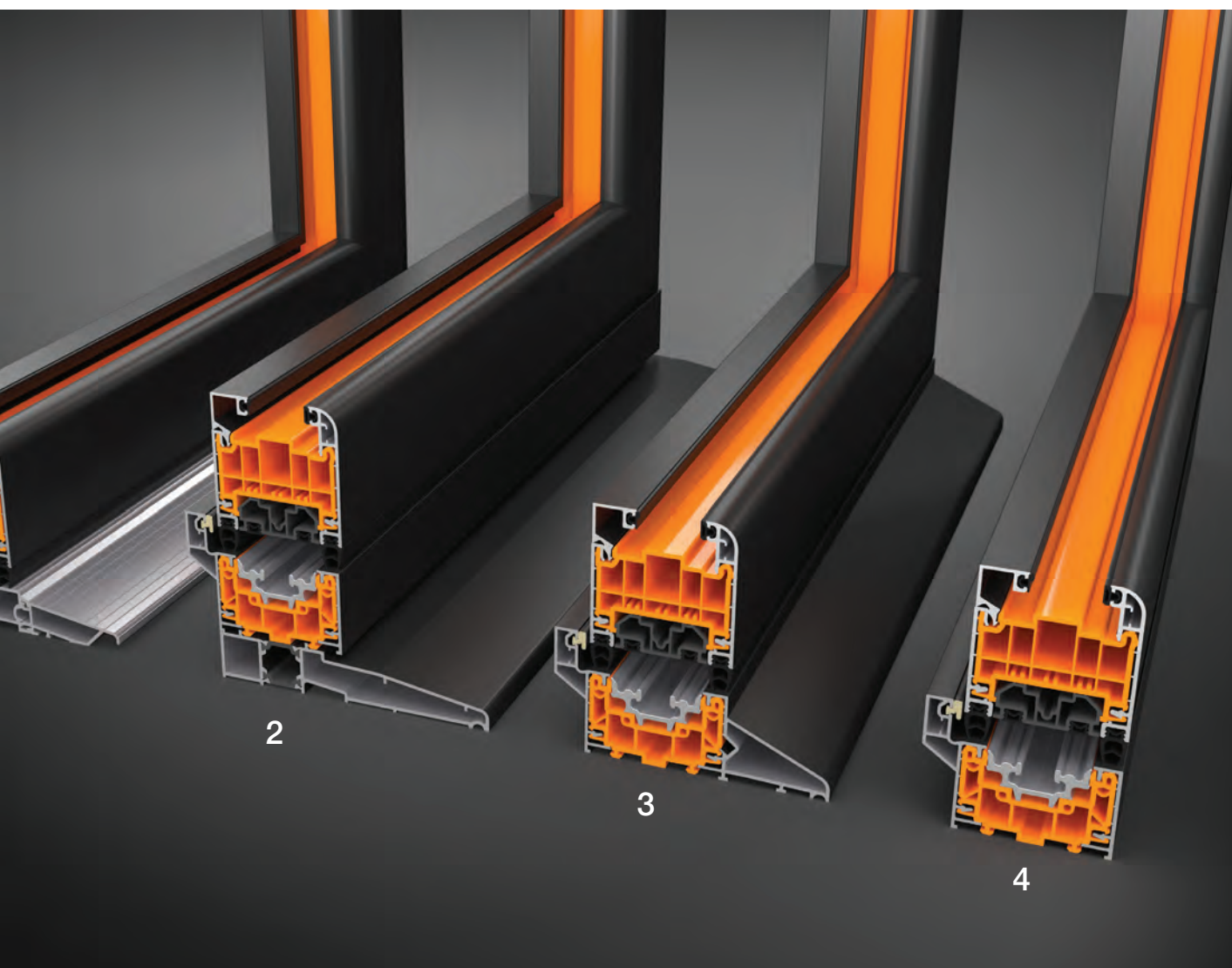
Single & French doors  
complete the range.

The WarmCore system is also available as single or French doors, ideal for keeping a consistent look with a larger set of WarmCore doors.

Built to the same exacting standards as the larger doors, this range gives you all the benefits of Warm Aluminium, at a more modest size.

Openings that are 2 door sashes wide can still be specified as folding sliding if you prefer, with the door sashes folding to the left or right as required. With WarmCore it's your choice.





### Threshold options

WarmCore doors come with a range of threshold options, including ultra low Part M compliant aluminium thresholds that help avoid trip hazards.

Alternatively if you have a step down from your door opening a choice of sills is also available. Configurability is key and you can be confident that WarmCore has the right option for your home.

#### 1. Aluminium low threshold

#### 2. 150mm sill

#### 3. 120mm integrated sill

#### 4. Outer frame



# BETTER BY DESIGN

Where innovation meets precision.



## Innovative design

With features such as our inbuilt glass adjustment device, WarmCore doors are designed to operate smoothly and have a high degree of adjustment built-in.

## Neat stacking

Meticulous design and discreet magnets ensure open door sashes run in parallel and stop door sashes 'clattering' when in the open position.



## Precision components

From the sturdy quad-wheeled rollers, to the multiple weather-seals, every element of your door is precisely manufactured and installed to exacting standards.

# THERMAL PERFORMANCE UPGRADE

**Triple glazing - for ultimate thermal performance.**

Robustly designed to take the weight of triple glazed units as standard, choose this option for the ultimate thermal performance - at least 75% better than standard double glazed aluminium folding sliding doors. Opting for 44mm triple glazing rather than standard 28mm double glazing reduces the whole door U-Value rating from 1.4 to 1.0. Triple glazing is ideal for WarmCore doors installed in exposed locations.

# +75%

**Better thermal performance  
than standard double glazed  
aluminium folding sliding doors.**





# ATTENTION TO DETAIL

**It's what makes the difference.**

## **Precision engineering**

From the sturdy quad-wheeled rollers, to the multiple weather-seals, every element of your door is precisely manufactured and installed to exacting standards. Performance, reliability and ease of use comes from a meticulous attention to detail.

Custom high-strength rollers with a 200kg load capacity are at the heart of ensuring the smooth operation of your WarmCore door. Tested to over 50,000 cycles, these precision components ensure years of trouble-free, reliable operation.

## **Technical data**

Max door width: 6000mm

Max door height: 2400mm

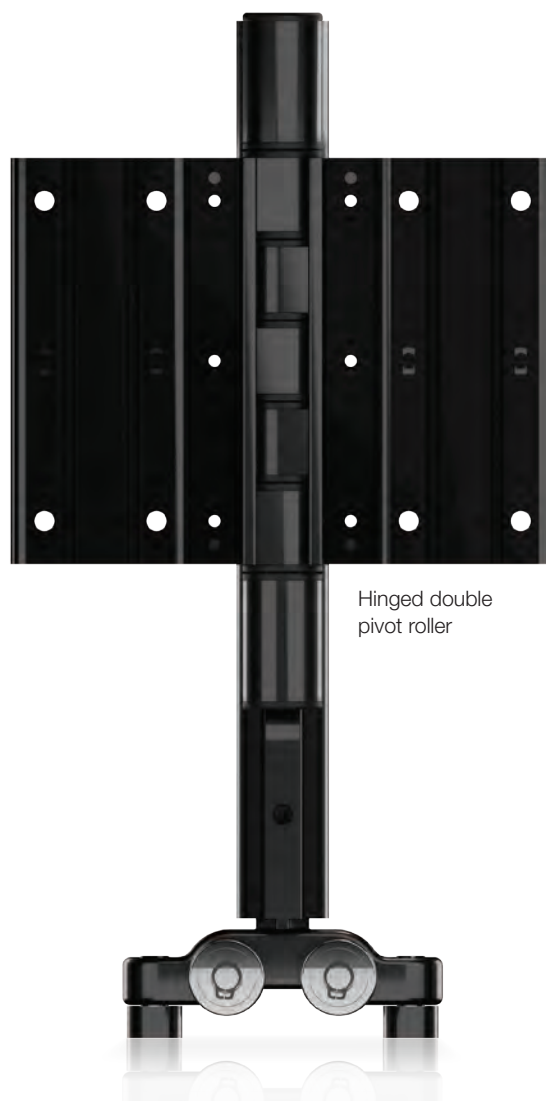
Max sash width: 1000mm

Max load per sash: 100kg

Frame and sash sightline: 129mm

Low threshold and sash sightline: 109mm

Sash to sash sightline: 156mm



Hinged double  
pivot roller



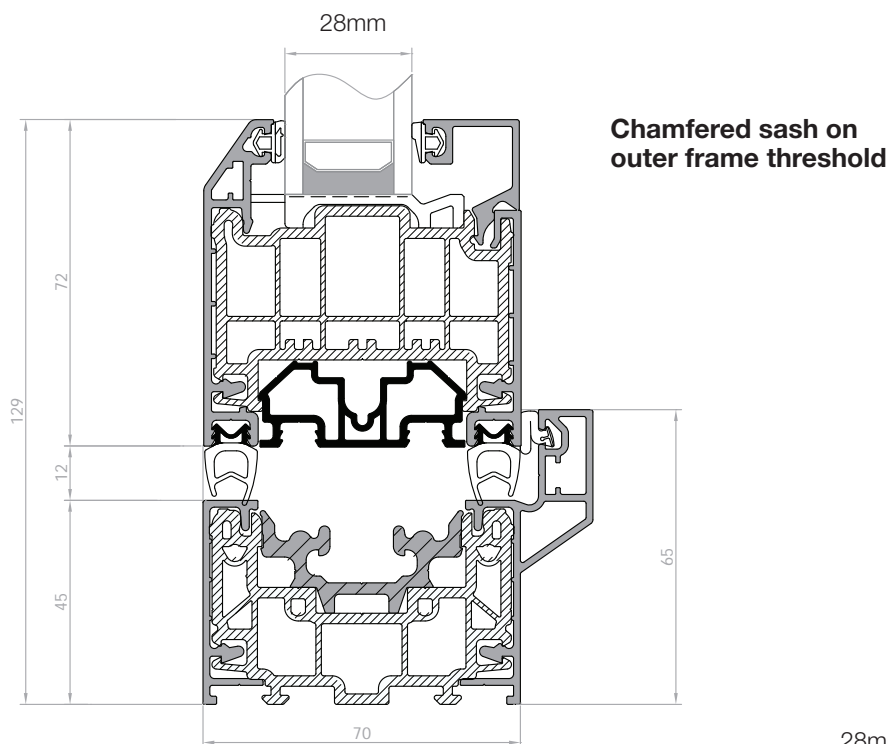
### **Weather performance**

Triple weather-sealing on all sash interlocks ensures exceptional weather performance, keeping draughts and wind driven rain outside, and you and your family warm and snug.

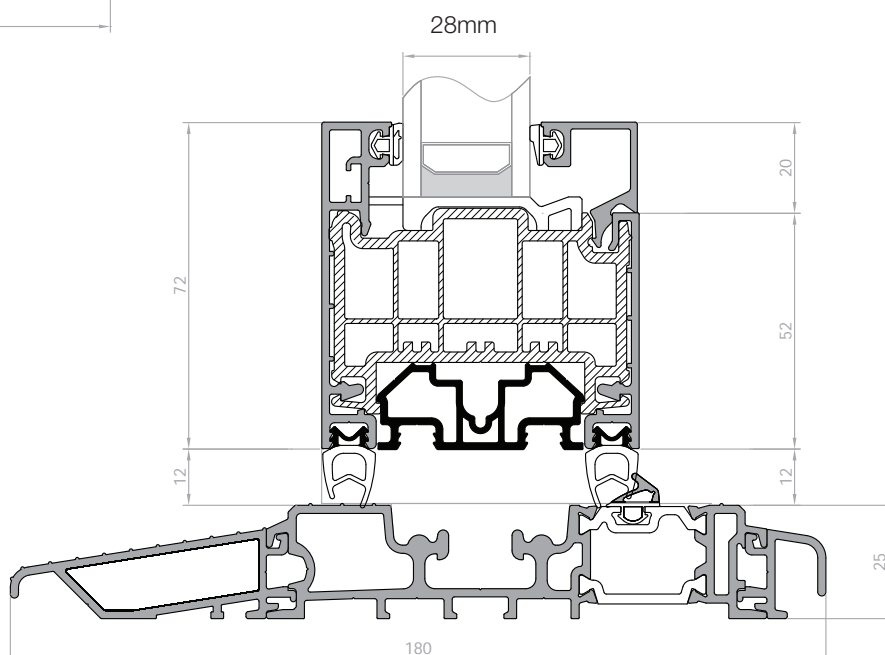
Run-through rubber gaskets create continuous weather-seals helping WarmCore to comfortably exceed the requirements of BS6375-1: the classification for weather tightness on windows and doors.

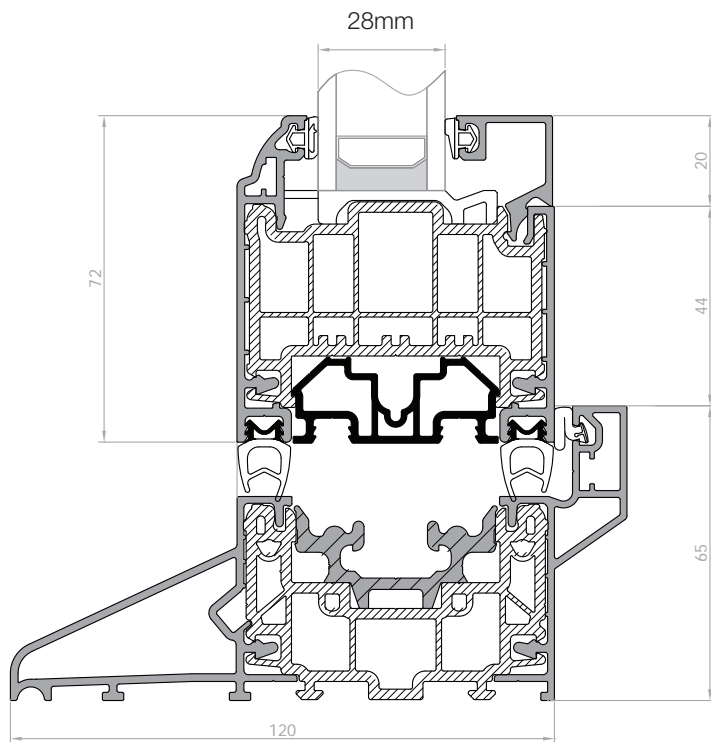


# CROSS SECTIONS SHOWING DIFFERENT WARMCORE CONFIGURATIONS

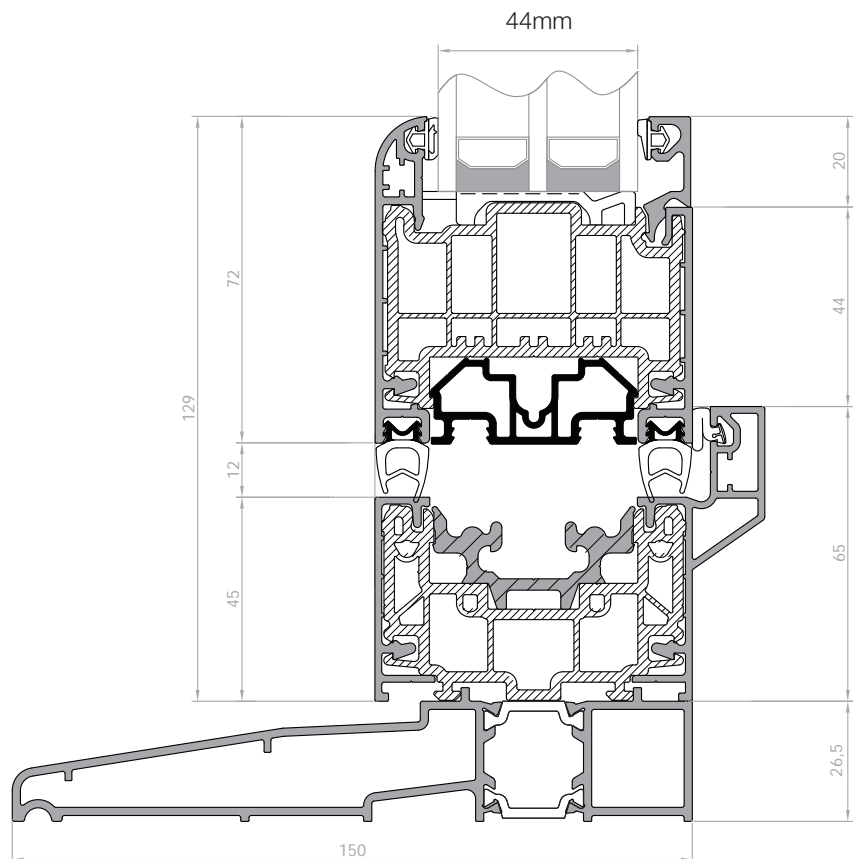


**Square sash on Part M  
compliant low threshold**





**Decorative sash on  
120mm integrated sill**



**Pencil round sash  
on 150mm sill  
with triple glazing**

# SUMMARY OF WARMCORE OPTIONS

## Door colours

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## Sash options

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Please note, the colours and finishes shown in this brochure are as close as the printing process allows. Product specification may be subject to change without notification as part of product improvement.



# SUMMARY OF WARMCORE OPTIONS

## Handle finishes

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1. Matt Black
2. Satin Silver
3. Brushed Graphite

Please note the lever handle option is not an anodised product and will not be suitable for coastal applications.



## Door configurations



**A**

WarmCore doors are described as a set of 3 numbers - the 1st is the total number of door sashes, the 2nd refers to the number of door sashes that open left and the 3rd the number that open right (when viewed from the outside).

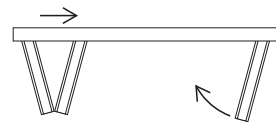
**A.** 3/2/1

**B.** French door

**C.** 4/2/2

**D.** Single door with midrail

**E.** 7/4/3



321 style shown from above



**B**



**C**



**D**



**E**





profine UK Ltd.  
Common Lane,  
Huthwaite,  
Nottinghamshire, NG17 6AD.

Phone - 01623 579200  
Email - [enquiries@profine-uk.com](mailto:enquiries@profine-uk.com)  
Web - [profine-uk.com](http://profine-uk.com)  
Online sales portal - [portal.profine-uk.com](http://portal.profine-uk.com)

