

**INSPIRING
QUALITY,
OPEN HEARTED
HOMES.**





CONFIDENT

When choosing a bifolding door, you need to be certain that you're enhancing your precious home. You need great looks and excellent performance, and that's exactly what you'll get with Integral.

Integral has been developed by the Epwin Group, specialists in low-maintenance building products. For more than forty years, Epwin has been leading the way with innovative products, high standards and outstanding manufacturing quality.

Epwin is proudly British. Its products are made in the UK, designed for our homes, climate, building materials and methods. You can be sure they won't let you down. Like all Epwin products, Integral is practical and desirable, it's deceptively simple but perfectly engineered.

// aspirational

Desirable, yes, but definitely attainable, and most homes have a room that's just right for transformation. Bifolding doors aren't just for the glossy magazines, they're for everyone.

// cutting edge

Slim, streamlined and high-tech, Integral bifolds combine advanced design, materials and manufacturing to ensure a door that looks and performs beautifully.

// liberating

There's something relaxing about an open-house, freedom to move and use all the living space – including the garden – in new ways. Discover the true, open heart of your home.

DISCERNING



Choosing the right bifolding doors is important, but it's also important that you respect the style of your home. **Integral bifolds are the ideal choice where existing PVC-U glazing is in place, or where the crisp lines of other aluminium bifolds have an aesthetic that's simply too clinical.**

Integral is different, but it's more than just a perfect match for PVC-U – it's a genuine, proven and high-performing aluminium system.



// long lasting

Bifolding doors need to be strong and resilient. Aluminium (with its lightweight handling and strength) is the ideal material. Integral bifolds utilise aluminium profiles engineered specifically for the job, unlike some PVC-U systems which use standard PVC-U door components. **Integral's double hinge fixings, stainless-steel tracks and rollers confer the additional rigidity necessary for PAS 24 accreditation and high-use repeated opening.**

// secure

Integral bifolding doors include **advanced multipoint locking to the main access door**. Robust shootbolts secure secondary doors and folding leaves to the top and bottom tracks. Anti-lift systems prevent leaves being lifted from the frame. **Combined with superb hinges, tamper-proof lock cylinders and toughened or laminated glass**, Integral bifolds can pass the most stringent security tests and meet the requirements of both Secured by Design and Approved Document Q.

// superior

Every single component of an Integral bifolding door has been selected for its quality and long-term performance. From the British Standard compliant aluminium material to the **low-profile gaskets that keep the water outside**. From the **security hinges** to the final finishing colour, we've picked the best. That's why we're happy to offer a full ten-year warranty.





ELEGANT

Any glossy magazine image will suggest the joy of living with a beautiful bifolding door. Few of them show the details, but Integral bifolding doors stand up to scrutiny. Stunning lines, the reassuringly solid quality of the hardware, the precision of manufacturing, the perfection of the finish. It all adds up to elegance.

// stylish

Style is always tricky to define, but it's easy to see. It requires the right proportions and elements that complement each other. Integral offers stylish finishes to match every occasion. **This includes 28 foil colours and woodgrain finishes** (see page 14).

// understated

You want a bifolding door to be good looking, but it shouldn't be the centre of attention. You want it to be unobtrusive so that the view is the dominant feature. **Our slim profiles are designed to allow the best possible glass to frame ratio.** Even when the door is securely closed, protecting you and your home from the elements, it's doing it quietly.

// bespoke

The beauty of a Integral bifold is that you can choose how it looks – it's scale, shape, layout, colour, function and finish. And, therefore, these bifolding doors are a fantastic choice for a wide range of projects. The external frame and sash upstand are **bevelled to match the leading PVC-U systems. For a contemporary look, there is the alternative of a sash with a square-shaped upstand.** All doors are internally glazed and feature a choice of bevelled or sculptured PVC-U beads to complement the style of a property's windows. And, where clean modern lines are required, there's a smart, square aluminium bead.





8

RESPONSIBLE

We take our responsibilities seriously. We've designed a beautiful bifolding door, but we've kept our eyes firmly on those qualities that make living with a bifold much more than a visually pleasing experience. There's nothing dull about being sensible.



// insulating

Integral bifolding doors have energy-efficiency at the heart of the design. We use advanced thermal break technology to ensure that the outside chill stays outdoors. **Seals between each folding leaf, protect from draughts and a selection of beads allow a choice of glazing unit.** Depending upon the aspect and location, you could incorporate solar-control or low-emissivity glass, and for exceptionally well insulated properties, there are various options to accommodate triple-glazed units.

// protecting

Integral bifolds have been tested to withstand onslaughts by the wind and the rain. **A combination of seals, glazing gaskets and precision manufacturing keeps your home comfortable and dry.** To ensure adequate ventilation and to meet building regulations, we can incorporate unobtrusive trickle vents which help to manage condensation in well insulated homes.

// caring

Our planet's resources are precious, but Integral bifolding doors are built with that in mind. They can help reduce energy consumption, need practically no maintenance and are very long lasting.

WISE

Aluminium is ideal for bifolds. The load in a bifolding door is carried by the threshold track system, and the combined weight of several folding leaves, each with double or even triple glazing, can become considerable. Choosing a lightweight material is just common sense.

Adding a PVC-U bead to an aluminium bifolding door may sound counterintuitive, but it makes perfect sense. Not only does it allow a great match between the profile shape of windows and doors, but it also offers better thermal insulation and more options for glazing.





// durable

Aluminium isn't just strong, it's also resilient. Unlike timber, it won't warp or rot and it will never rust. We've chosen a **high-quality alloy (6063-T6 to BS EN 12020)** and our sections are extruded with the perfect wall thickness to resist impact damage and maintain structural integrity – even when supporting the considerable weight of three panes of glass. **Our powder-coated finishes are 40 microns thick for years of good looks and our foils are permanently bonded for outstanding long-term performance.** Our tracks, rollers and locking systems have been tested through thousands of cycles.

// practical

Integral bifolding doors are **easy to operate, gliding smoothly on their tracks**, simple to secure and can be configured in the way that suits your lifestyle. They're easy to care for and include all the things that make them safe to live with like child-friendly gaskets and toughened glass.

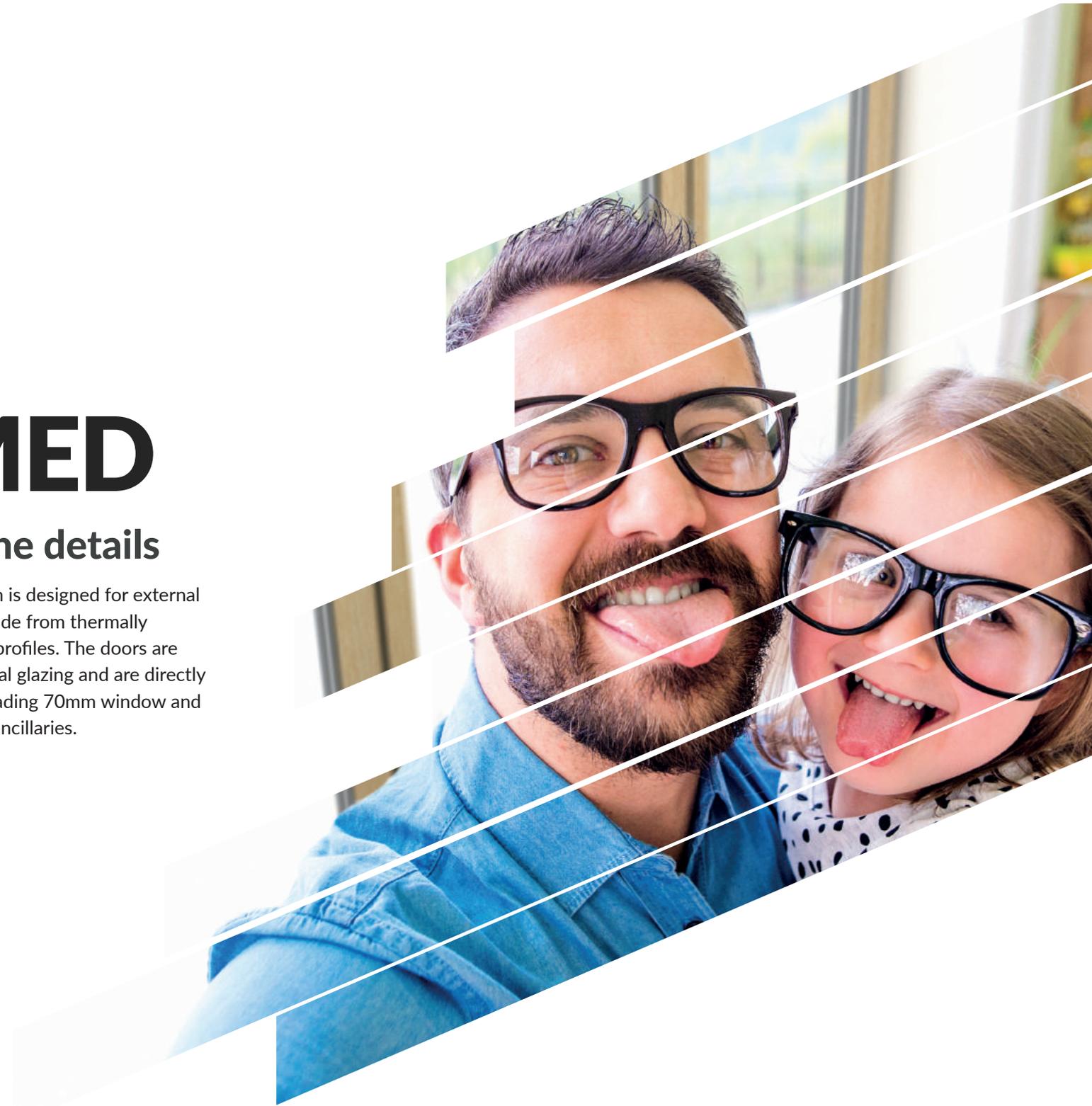
// adaptable

Integral bifolds can be configured to suit almost any project, property or lifestyle. Outward stacking leaves suit those properties with restricted indoor space. Indoor stacking doors may be more suitable for busy outside areas. Traffic doors can be positioned in just about any location and there is a choice of threshold types to comply with access requirements. They'll accommodate **glazing from 24mm right up to 44mm and internal glazing beads** can be chosen to complement the profile shapes of leading PVC-U systems.

FULLY INFORMED

getting the details

The Integral system is designed for external door sets and is made from thermally broken aluminium profiles. The doors are designed for internal glazing and are directly compatible with leading 70mm window and door systems and ancillaries.





// materials

We've chosen an alloy that's strong, durable and stable, and to ensure heat loss through the frame is minimised, we build in a rigid and insulating thermal break. We even situate the hardware on Integral doors in PVC-U 'nests' to help retain the heat indoors.

Integral's powder coated finishes include polyester because it's tough and UV resistant. We use the best foils, bonded in a state-of-the-art plant.

With Integral, no detail is too small.

// hardware

We've chosen advanced locking systems and effective shootbolts for high security, but we've also made sure that when you want your doors open, it's not a struggle. If you want your hardware to match your other glazing, that's no problem.

Unlike some bifolds, Integral has double hinge fixings. Its track system is purpose-made stainless steel. The roller system is beautifully balanced and wiper brushes resist the build-up of debris.

Hardware	Colours available		
	Chrome	Black	White
Open-In D Handle	✓	✓	✓
Shootbolt Handle	✓	✓	✓
Hinge	✓	✓	✓
Roller	✓	✓	✓



▲ Open-In D Handle



▲ Hinge



▲ Roller

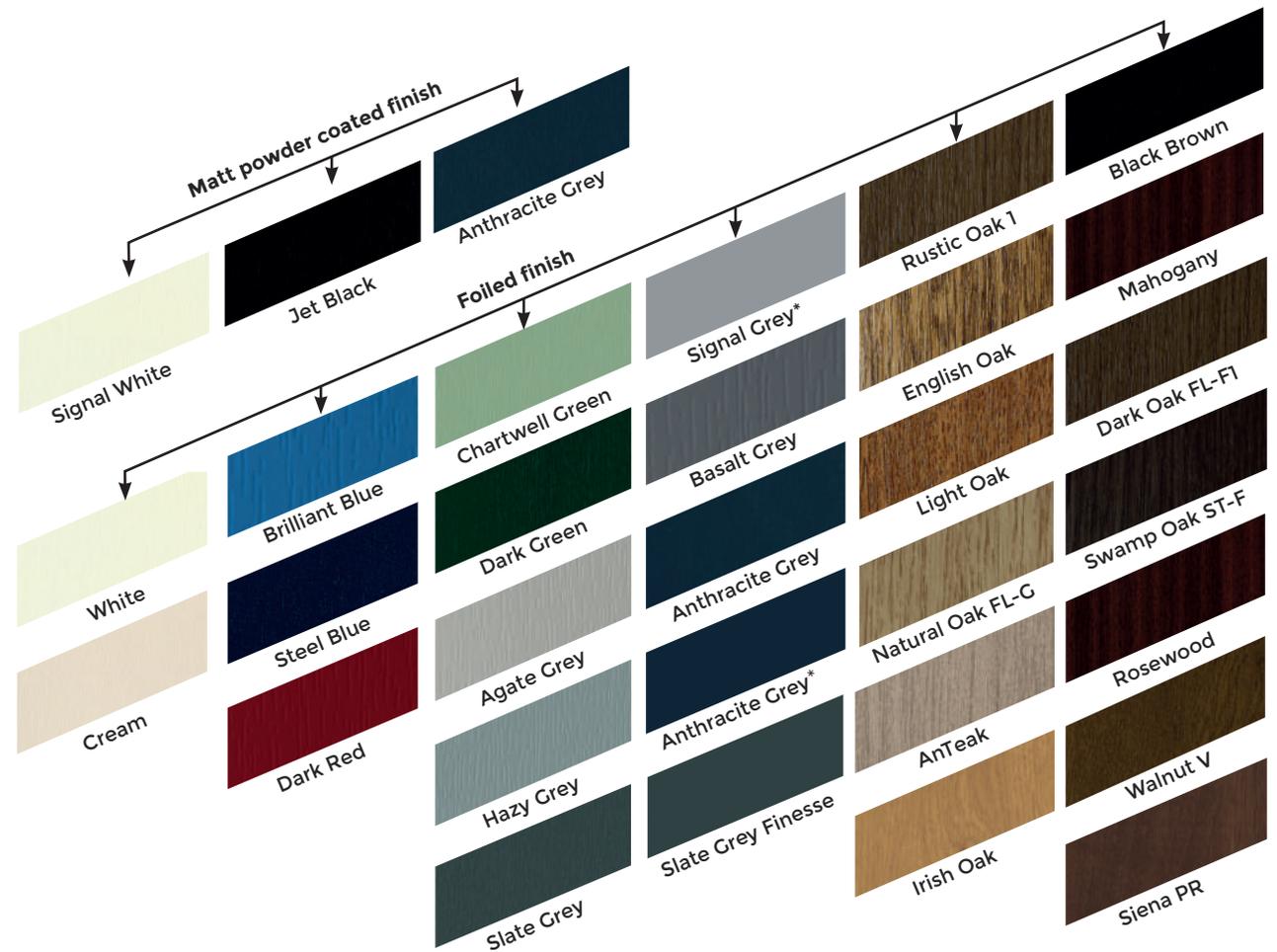


▲ Shootbolt Handle



YOUR HOME YOUR COLOURS

With Integral, there's no restriction on colour. Subtle or vibrant, Integral's powder-coated or foiled finishes allow you to match your glazing or choose a contrast. Our powder-coated finishes are tough. Black, white or grey always look smart, but if colour's your thing, choose any RAL shade. If you're looking for the textures of wood, choose a durable foiled option from our wide range of timber-effects and solid colours.



* Smooth

WANT TO GET TECHNICAL?

Our designers and technical experts have been more than thorough with Integral, but not everyone is as keen on the details as we are. We've avoided using a lot of technical talk in this brochure, but we've got nothing to hide. If you are interested in all the precise specifications, just ask. We love talking about what we do.

dimensions

- ▶ Up to seven leaves
- ▶ Leaf width from 700 to 1000mm
- ▶ Maximum leaf weight including glass 100kg

configurations

- ▶ Mechanically jointed frames for easy transportation
- ▶ Multiple options available in single traffic door or french door, left and right stacking or center parking
- ▶ Choice of access door position
- ▶ Inwards and outwards opening leaves

accreditations

- ▶ PAS 24 accredited system
- ▶ Meets Secured by Design standards
- ▶ Meets Approved Document Q and L requirements

glazing

Faster installation with the convenience of PVC-U beads

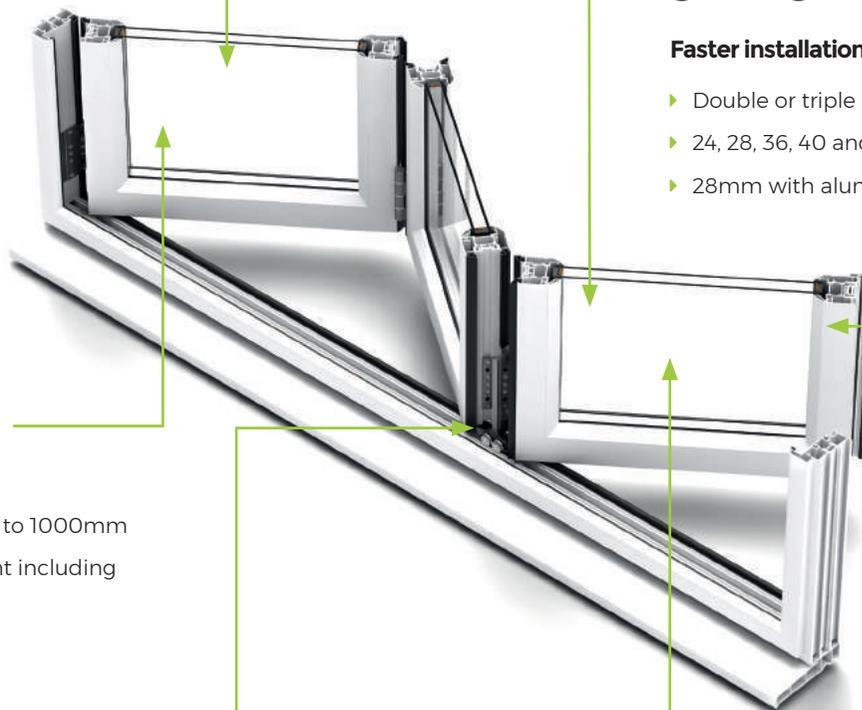
- ▶ Double or triple glazed
- ▶ 24, 28, 36, 40 and 44mm options with PVC-U beads
- ▶ 28mm with aluminium bead

shape

- ▶ External upstand detail bevelled on frame, and option of bevelled and square on sash available
- ▶ Internal- PVC-U (sculptured, bevelled or square) or Aluminium (square)

thermal performance

- ▶ Variable depending upon the configuration and choice of glass. Example values as follows:
 - U-value 1.7W/m²K with 1.2 Ug glass
 - U-value 1.6W/m²K with 1.1 Ug glass
 - U-value 1.1W/m²K with 0.5 Ug glass





INSPIRED?

integral 
BIFOLDS

integralbifolds.co.uk



PRINTED ON 100%
RECYCLED PAPER

Epwin Group