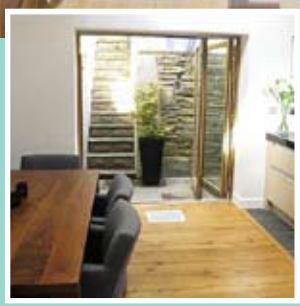
folding

By Design

Bring the Outside In



Dreams to Reality

Enjoy the extra space and bring the outside in

contents

Whatever your dream

There are so many situations in which a folding sliding door can be a solution.

Open new horizons

Folding sliding doors for all situations.

Keep the party flowing

Imagine having all your friends at home for that barbeque party on a summers evening.

Specifications

Choosing the right material is essential in ensuring you compliment your project.

Advice

Choosing the right material and opening configuration for your situation is vital.

welcome

Ask yourself... why compromise on security, weather resistance or performance? Increase your folding sliding door options with wider openings and limitless door configurations – doors that open in or out are now available to you.

Dual running encapsulated system, which can be adapted to top running or bottom rolling. The uniquely designed steel rollers are engineered for ease of operation, strength and durability. Aesthetically pleasing, uniquely designed flat handles ensure flat folding, uncompromising operation. With running track systems which allow you unobstructed level access and uncompromised weather and security as standard. Your choices are endless.

We know that you will appreciate the opportunities we are able to offer you from our extensive range, combined with our innovative design and state of art folding sliding door technology.

Jack of one Trade, Master of one

Whatever your dream

There are so many situations in which a folding sliding door can be a solution to improving your living space and the environment around you.

For instance, you live in an apartment with a balcony. By incorporating a folding sliding door between you and the balcony, you can create a feeling of more space. Or by installing a folding sliding door to the top of the balcony rail, you can create more living space during the winter months.

How about using a folding sliding door as a window to generate a more open feeling in any room in your home?

Folding sliding doors can increase the valued time that you have with your family, even when they are in the garden and you are in the home. Break down those barriers by creating a wider opening with a folding sliding door and bring the outside, inside.

Whatever your dream we will endeavour to make it a reality!

Folding

Bring The Outside In

open new horizons

Folding sliding doors can be installed in a huge range of situations, in fact folding sliding doors provide you with so much flexibility and choice that the solutions are endless.

- Gone are the days of French doors with a glass panel on either side.
- Gone are the days of the sliding door, which, when you think about it, is just a door with a large window at the side.
- Why block half of your available opening?

Our team of professionals can accommodate a folding sliding door into almost any property.

Why not take full advantage of the outdoor space you have. Don't be shut in! Don't be closed off! Open your horizons and bring the outside in.

From restricted doorways to large openings a folding sliding door will bring the outside into your home.

Keep the party flowing

Imagine having all your friends at home for that barbeque party on a summers evening.

- Is everyone struggling to squeeze in and out of the patio door you have now?
- How many of them, after a few drinks, are going to walk straight into the glass? Ouch!!!!
- How many trip up over the threshold? .... with a glass of red wine!!!!

Allow the traffic to flow and keep the party flowing problem free.

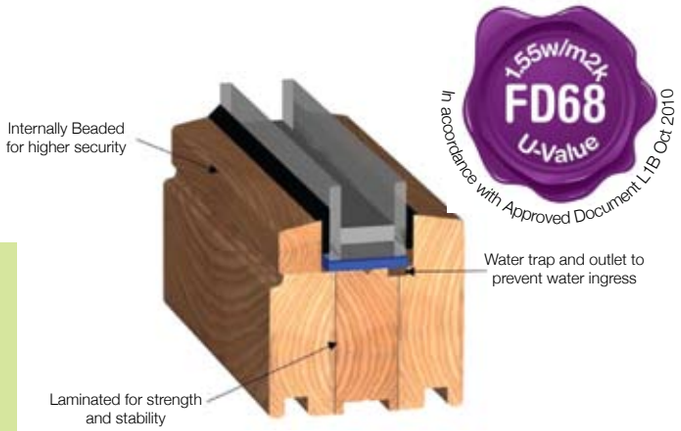
Give yourself the extra space that you need with a folding sliding door. Don't separate your inside from the outside.

Open your horizons and bring the outside in.

Folding

Bring The Outside In

timber



For the traditional or natural look you can't beat the feel and warmth that timber brings to any room.

All our hardwood systems are expertly crafted by our fully trained staff, and are laminated to give extra strength and to prevent warping.

The timber frames are dipped into an anti-rot, and anti-fungal treatment to protect the frames from both the harsh rays of the sun and water ingress.

They are then finished to your specification using either a natural stain or a RAL colour of your choice. If however you prefer to finish the doors on site we can provide the doors unfinished.

- Available in Red Wood or European Oak
- Laminated profiles to reduce expansion and warping
- Factory sprayed with long life, low maintenance finishes
- Environmentally sourced timber from sustainable forests

The natural look timber provides, enhances traditional builds and is ideal for internal room dividers ideal for all locations.

Specification

Frame Width:	68mm
Frame Thickness:	68mm
Maximum Opening Width:	15000mm
Opening Height:	3000mm
Panel Height Range:	750mm—2884mm
Panel Width Range:	440mm—1000mm
Standard Colour:	Unfinished
Optional Colours:	Any RAL colour, or natural stains
Standard Treatments:	Anti-Fungal, Anti-Rot
Glass Units:	Standard 24mm Double Glazed

Folding

70mm aluminium

1.77w/m2k FD72 U-Value
In accordance with Approved Document L1B Oct 2010

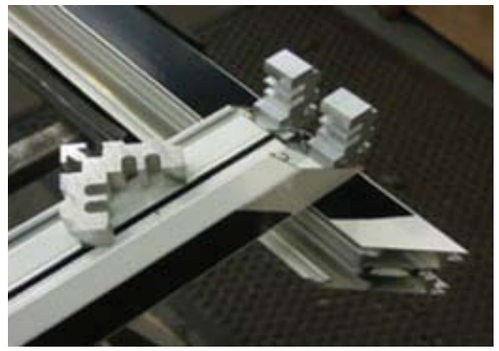
Aluminium - Modern, strong and durable

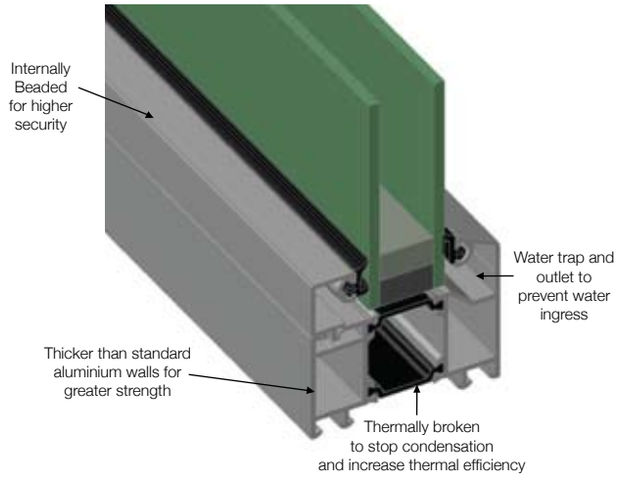
The 70mm aluminium folding sliding door is our most popular system. It offers a modern look coupled with strength and durability. Minimum maintenance is required to keep its looks, and is thermally broken to keep the cold out. The system comes in a standard colour of white (RAL 9016), but can be coloured to suit your tastes for a little extra.

- Thermally broken for greater thermal efficiency
- Heavy duty cleats to make stronger and bigger panels
- No condensation
- Resistant to scratching and denting (1.75mm wall)
- Contemporary appearance
- Dual colour optional

Ideal Applications: Due to the hardwearing material and finish this door has endless applications, ideal for larger openings and commercial properties.

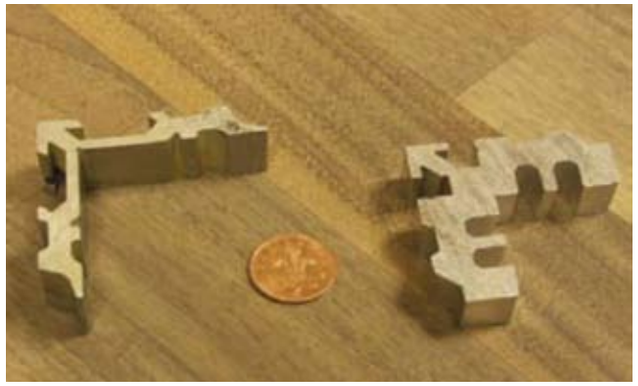
Built for Strength
We use over size cleats to hold our aluminium panels together to ensure longevity of the joint. The cleat shown on the left of the coin is a competitor's cleat that was removed from a door panel on a system we replaced. As you can see it is bent out of square.





Specification

Frame Width:	60mm
Frame Thickness:	70mm
Maximum Opening Width:	15000mm
Opening Height:	4000mm
Panel Height Range:	800mm—3884mm
Panel Width Range:	450mm—1100mm
Glass Units:	Standard 28mm Double Glazed
Aluminium Thickness:	1.75mm



45mm aluminium

1.84w/m2k FD45 U-Value

In accordance with Approved Document L1B Oct 2010

The 45mm aluminium folding sliding door offers slim sight lines and a smaller stacking space.

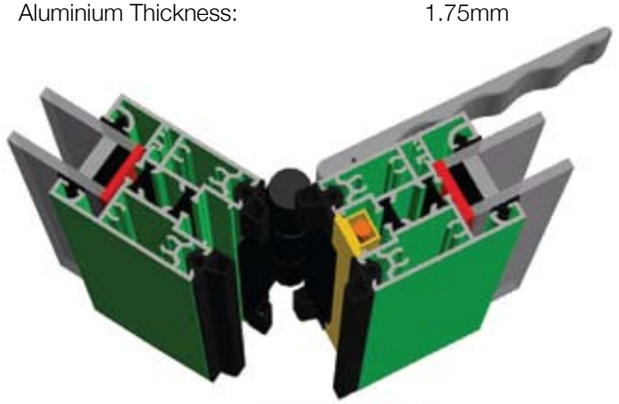
It offers a modern look, coupled with strength and durability and requires minimum maintenance to keep its looks. The 45mm profile is thermally broken for thermal efficiency. The system comes in a standard colour of white (RAL 9016), but can be coloured to suit your tastes for a little extra.

- Thermally broken for greater thermal efficiency
- No condensation
- Resistant to scratching and denting (1.75mm wall)
- Modern looking profiles
- Narrow sight lines

Ideal Applications: Due to the hard wearing material and finish this door has endless applications, ideal for larger openings and commercial properties.

Specification

Frame Width:	60mm
Frame Thickness:	45mm
Maximum Opening Width:	10000mm
Opening Height:	3000mm
Panel Height Range:	800mm—2884mm
Panel Width Range:	440mm—900mm
Glass Units:	Standard 20mm
Aluminium Thickness:	1.75mm



This system is recommended for internal use only as it does not comply to the new UK building regulations October 2010.

aluminium and timber

1.83w/m2k FD73 U-Value

In accordance with Approved Document L1B Oct 2010

The best of both worlds

By bringing our timber and aluminium systems together, we have created the Ali-Clad folding sliding door.

It offers a strong, durable and maintenance free finish outside while still providing the warmth and character that timber brings inside.

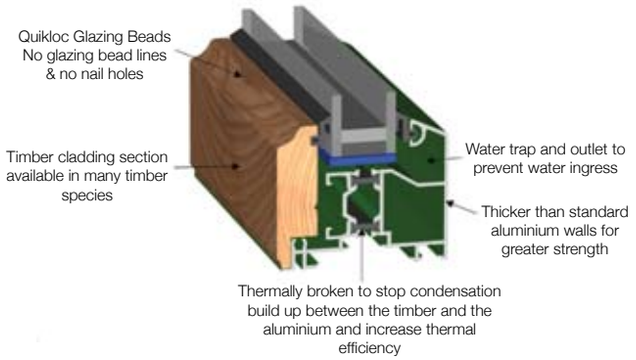
- Thermally broken poly-powder coated aluminium frame
- Thermally Efficient
- No nailed on glazing beads
- Discreetly locked on timber profiles
- Timber can be easily changed or removed for painting

Ideal for all locations, Ali-Clad is used extensively near coastal regions and areas highly exposed to the sunlight.

Ali-Clad is also used when different colours are required inside and outside to achieve a timber internal look.

Specification

Frame Width:	60mm
Frame Thickness:	70mm
Maximum Opening Width:	15000mm
Opening Height:	3000mm
Panel Height Range:	800mm—2884mm
Panel Width Range:	450mm—1100mm
Glass Units:	Standard 28mm Double Glazed
Aluminium Thickness:	1.75mm



Folding

Bring The Outside In

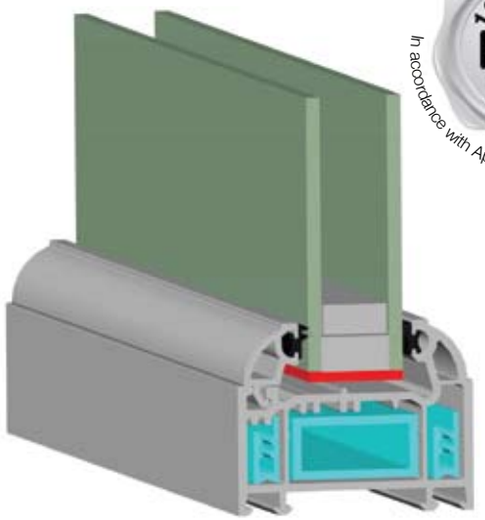
PVCu

Matching your existing PVCu windows with a bi-fold door is easy!

This 70mm system is constructed from Aluminium reinforced VEKA Matrix profile. Veka profile is one of the best PVCu profiles on the market worldwide. The system is high in strength and has a very good thermal value.

- BS6375 (Weather Performance)
- CE & CPD Compliant
- Manufactured to the highest standards
- Veka Matrix Profile
- Thermal Efficiency
- Durable
- Narrow Sightlines
- Flush Track
- No Face Fixed Hardware
- Fully Inline System

Don't settle for inferior copies



Specification

Frame Width:	70mm
Frame Thickness:	70mm
Maximum Opening Width:	8000mm
Opening Height:	2400mm
Panel Height Range:	800mm—2284mm
Panel Width Range:	400mm—800mm
Glass Units:	Standard 28mm Double Glazed

Folding

finishes

A folding sliding door can be factory sprayed or powder coated to accommodate all tastes. There are hundreds of colours to choose from, whether your choice is laminated timber, aluminium or aluminium & timber clad, we can coat it to your desired finish.

Timber Translucent coatings

All of our timber products are factory sprayed with the highest quality coatings on the market.

They are low maintenance and have a very long life span. Up to 10 years before requiring first maintenance.

Our factory spray coatings are applied to the timber in three coats at 250 microns per coat. This is comparable with up to 15 coats of brush applied paint.

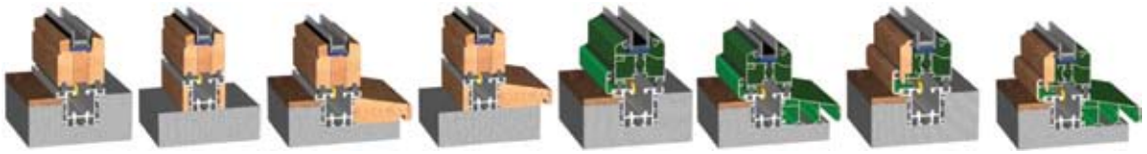
Aluminium

All of our aluminium products are powder coated to a higher level of quality than that of industry standard.
There are hundreds of RAL colours that you can choose from.
Our powder coatings have a life expectancy of up to 25 years and are maintenance free.

To choose your colour accurately and to get a more precise idea of what the colour looks like, it is advised that you obtain a printed RAL-colour chart from your local decorators' merchant.

Bring The Outside In

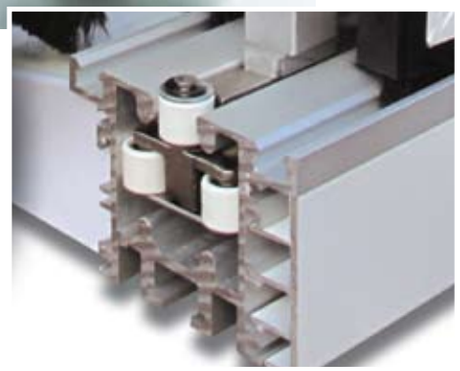
tracks and rollers



Inline, Strong and Secure

We offer an inline out-of-sight track system, this track system is strong and secure. The wheels have sealed bearings for maintenance free use. They operate quietly, smoothly and contrary to what our competitors say, they do not wear the track. We have doors that have been in our showroom for over 3 years and the doors still run as smoothly as the day they were installed. Bearing in mind that our showroom doors have been opened and closed approximately 20 times every day for over 3 years.

The system also includes a tongue and groove feature to
(1) prevent attack by an intruder.
(2) prevent water infiltration.
(3) keep the system stable with one panel interlocking with another.



Folding

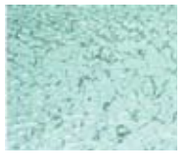
glass

An important choice you make in purchasing windows is what type of glass to put in them. Glass has a significant effect on the heat your house loses at night, the heat it gains during the day and noise levels from outside. The glass in your windows helps to determine the level of comfort, security and privacy in your home. No matter what the location of your site or the positioning of the windows within a project, we provide you with many glass solutions.

Double-glazed Units

Insulating glass is a multi-glass combination consisting of two or more panes enclosing a hermetically-sealed air space. The most important function of insulation glass is to reduce thermal losses, which offers many advantages: lower energy consumption, perfect transparency by reducing the incidence of condensation on the warm air side and the possibility of using larger glazed areas without increasing energy consumption.

GLASS OPTIONS



Tempered Glass

The tempering process produces highly desirable conditions of induced stress which result in additional strength, resistance to thermal stress and impact resistance. Tempered glass is about 4 times stronger than standard glass. When broken, Toughened Glass shatters into small blunt - edged fragments (dice) reducing the risk of human injury.

Low-E coated glass

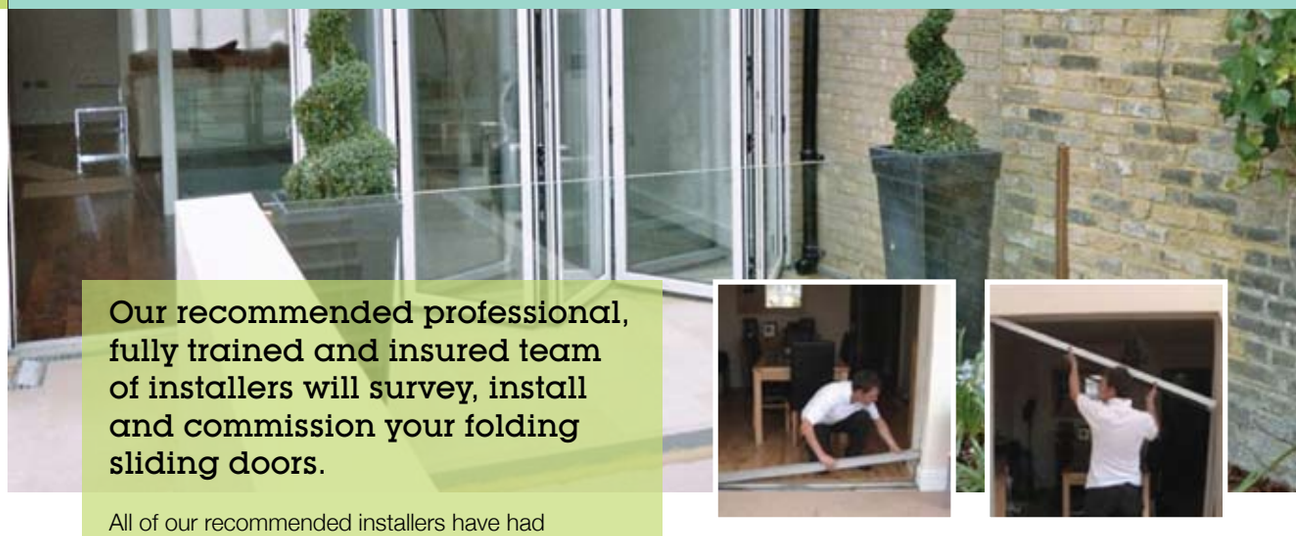
The Low-E allows most natural light to enter freely but reflects a significant portion of short-wave heat energy. In the summer, long-wave heat energy radiating from objects is reflected back outside, lowering cooling cost. In winter, internal long-wave heat energy is reflected back inside, lowering heating cost.

Laminated glass

Laminate resists penetration – glass may break but the plastic inner layer retains overall integrity and continues to act as a barrier.
(1) Protects against break-ins by preventing or slowing down burglary attempts.
(2) Protects against vandalism and brief attacks using easily available objects.
(3) Withstands repeated blows from heavy objects such as bricks, hammers, crowbars and similar hand held heavy objects. Depending on the extent of the attack, the product remains integral and protects the premises adequately and limits penetration whilst awaiting replacement.

applications

installation



Our recommended professional, fully trained and insured team of installers will survey, install and commission your folding sliding doors.

All of our recommended installers have had extensive training and experience in fitting folding sliding doors and are equipped to professionally complete the installation to the quality and high standards that you would expect first time.

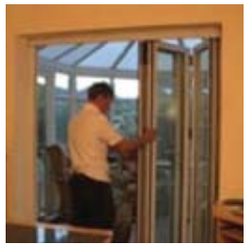
However, with “Do it yourself “and “Self build” being so popular over the last few years, we have made this option available with our self assembly or self install door sets.

As folding sliding doors are quite new to the market place, we found that there are very few companies giving you this option as they would prefer to install all the door sets that they sell.

Maybe their door sets are too complicated to be fit by others or maybe they see installation as another form of revenue.

We understand that some people gain great satisfaction in accomplishing a task like this or maybe they have their own joiner that can fit the door for them.

In any event, if you are looking at one of these options, all of our door sets can be easily installed by following our online video instructions and if you get stuck, just give us a call and one of our technical assistants will be more than willing to instruct you.



advice

Choosing the right material and opening configuration for your situation is vital to any successful installation. The following pages will introduce you to our products and how they can be tailored to your designs.

FOLDING SLIDING DOORS FOR YOUR HOME

A folding sliding door can accommodate all tastes, applications and building requirements.

OVER 100 OPENING STYLES AND COLOURS, including:

- Inward opening,
- Outward opening,
- Folding to the left,
- Folding to the right,
- Folding both ways,
- Laminated timber,
- Thermally broken aluminium or
- Thermally broken aluminium & timber clad.

HIGH QUALITY MATERIALS AND ENDLESS COLOURS

Whether your choice is timber, thermally broken aluminium or thermally broken aluminium & timber there are hundreds of colours to choose from, meaning that you can match or compliment your property style.

EASY, OPEN ACCESS

There are threshold details to suit all applications.
Some people prefer a step on the inside and outside, some prefer a step on the outside only. But for the many, they prefer a flush threshold that blends the inside floor with the outside floor. This is especially popular for people with children, the elderly or with those with accessability requirements.

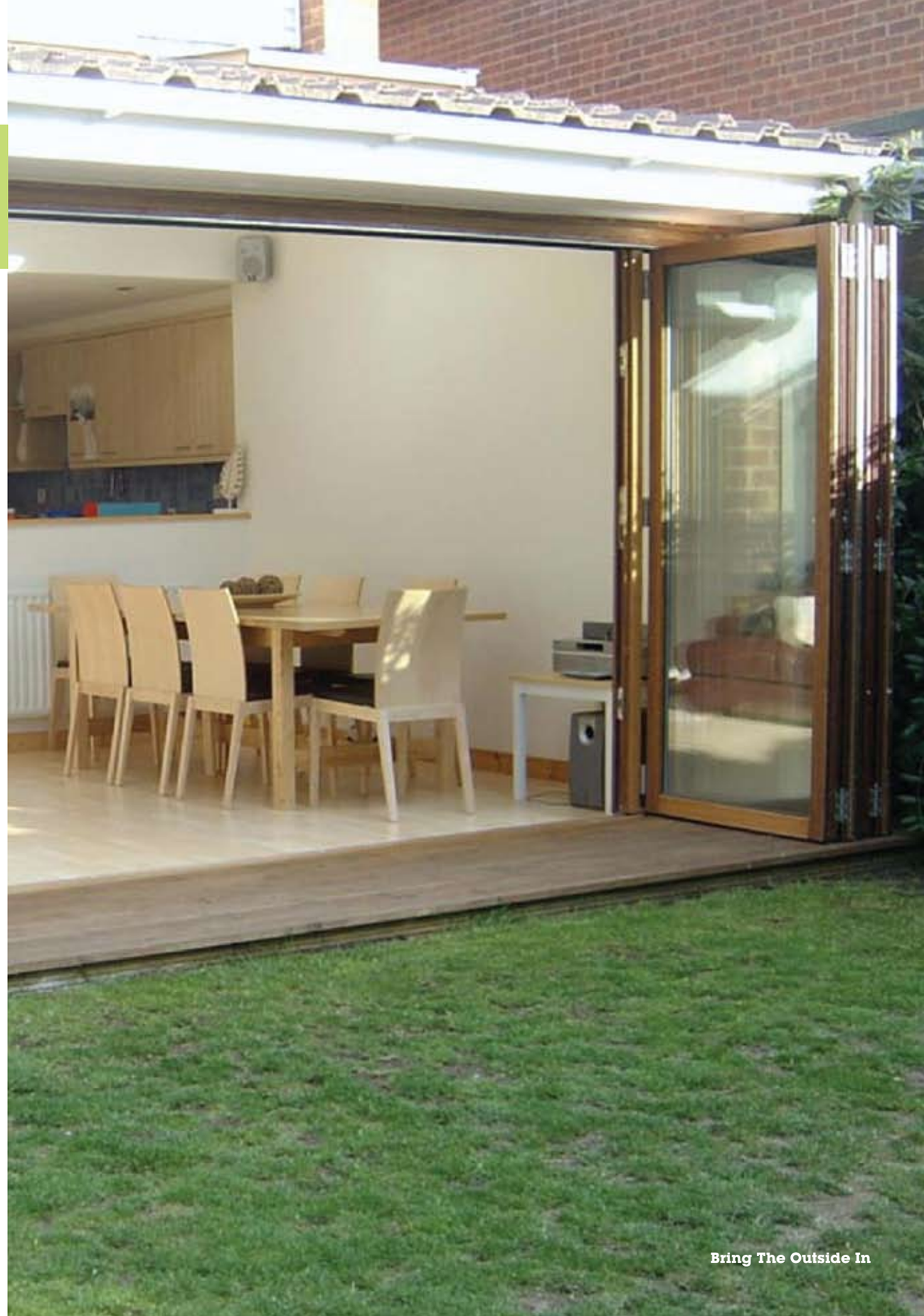
4 Things to take into consideration when choosing a folding sliding door.

1. Security - You are about to create a large hole in the side of your home - only consider purchasing exterior doors of any type that are accredited with PAS 24 and have been severely tested in a UKAS testing station.

2. Weather - During severe weather your door will be hit by wind, rain and may even have snow pile against it in the winter - only consider doors that have been tested to PAS 23. Always check the companies test report.

3. Thermal Efficiency - Thermal rating of a window or door is measured in U-Values, the lower the U-Value the better the rating. Many companies will give you a U-Value of the glass. This value will always be lower than the actual value of the window or door. Ask for the independant simulation test certificate.

4. Confidence - Only buy from a specialist company.



Finger Safe gaskets – Child Friendly

Folding

0.0mm (zero) Threshold as standard

Folding

Bring The Outside In

weatherproof

Rigorous testing

Weather proofing is also a main concern when it comes to door design.

Our system has been tested at a UKAS accredited testing station and passed the PAS23 weather test to extreme weather conditions.

Independently tested in accordance with USA hurricane standards upwards of 4000 pascals (PA).

Most systems on the market are weather tight, with high performance rubber seals and brush seals. However, there are some systems that have little or no seals at all. One crude but easy test is to close a folding door onto a sheet of paper and try to pull the paper out. If it pulls out easily there is not a water tight compression on the seals.

We use 2 rubber EPDM seals on each side of each panel and high performance seals on the top and bottom of the panel.

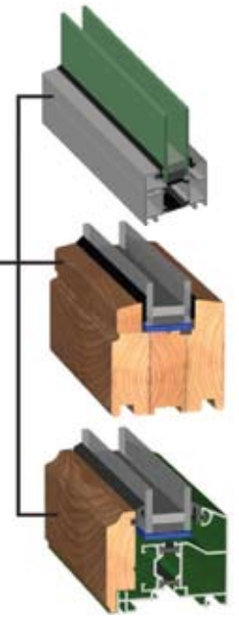
Folding

Security is one of our main concerns when it comes to door design.

- All running gear is encapsulated within the track so that the door cannot be lifted off its track. This makes it resistant to attack from potential intruders..
- The security and integrity of the door has been severely tested in a UKAS testing laboratory.
- During the tests the doors were hammered, rammed, pounded, pulled, pushed, lifted and crow barred by forces that equalled a 20 stone man trying to force entry.
- All our locking has hardened steel hook locks, dead bolts and top and bottom shoot bolts.
- All systems are internally glazed.
- All our folding systems are fitted with high security hinges to prevent the pins from being removed and the hinge being forced from the door.
- Tongue and groove design to prevent panels from being barred open.

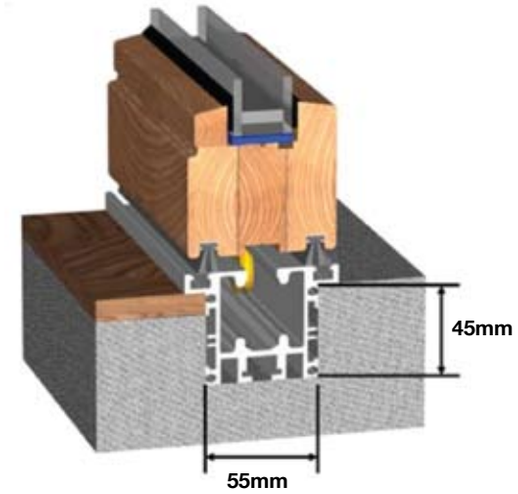
security

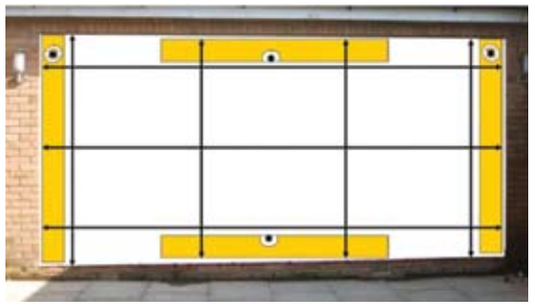
All systems are internally glazed



Bring The Outside In

measuring





Folding

“Do it yourself “and “Self build”

The question now is “how do you open that space in your home to incorporate a folding sliding door”?

The first thing that you need is an opening to accommodate the door. The opening must be of sound structure to allow the door to be installed correctly.

The opening walls and floor can be constructed from structural timber, steel, brick, concrete or concrete block. **Thermalite, cinder blocks or breeze blocks are not suitable to obtain a firm structural fixing.**

The head of the opening must be constructed from steel, structural timber or concrete. Light metal lintels and timber sub-frames are not suitable to obtain a firm structural fixing.

The next step is to measure your opening. This must be done from side to side and top to bottom. Always allow 10mm tolerance in your measurements.

It is advisable to use a large spirit level to check the opening as an opening that is not level can affect your measurement.

When deciding the way that you would like your threshold to be situated, always make allowances in your measurement to accommodate the bottom track. Note: the frame height includes the bottom track.

Once you have your opening size, you need to decide which direction you would like your door to fold and if you would like it to fold to the left or to the right, inward or outward or both.

Folding sliding doors are available made to your measurements and can be up to 4000mm high and 15000mm wide. The maximum panel width being 1100mm. Depending on the system you require, please see system specification.

Folding sliding doors are always viewed from the inside, so when ordering always give the opening direction of your door as you look at it from the inside.

thermal efficiency

To reduce the amount of thermal loss from the inside of your property, all of our systems have been thermal simulated to indicate the true thermal value.

ALUMINIUM

The aluminium in our systems is thermally broken, all of our systems are double glazed with Low-E glass and we have tested for water ingress and air permeability.

The thermal rating of a window or door is measured in U-Values, the lower the U-Value the better the rating.

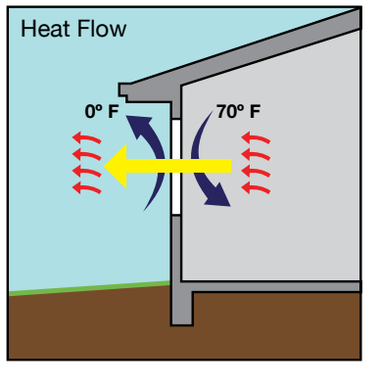
Many companies will give you a U-Value based on the centre pane value or the U-Value of the glass. This value will always be lower than the actual value of the window or door.

All our U-Value calculations are based on the whole door which is frame plus glass.

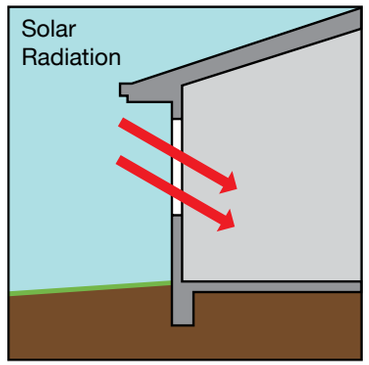
TIMBER

Timber is the most thermally efficient material used in the glazing industry, Aluminium is not so efficient. Bear this in mind, as some companies will tell you that their aluminium system has a U-Value of 1.3 or, better than an A rating?

A low U-value is useful during cold days when heating is needed.



A low U-value is also helpful during hot days when it is important to keep the heat out.



Bring The Outside In

Folding

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Design by plugandtapgroup.co.uk