



# Liniar Patio Doors

A Buyers Guide

# ALL BRIT



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**WINDOWS - DOORS - BI-FOLDS - PATIO'S**

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## A grand design

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Sliding patio doors are ideal for providing access to garden areas or conservatories, offering a generous expanse of light through large glazed panels.

With a sliding patio door, at least one pane is usually fixed, and at least one slides back – and patio doors can be made to fit wide apertures.

When you start looking for a new sliding patio door, it's often difficult to decide which brand of door to choose. Should you go with an older, more established brand – or decide upon a patio system with more up to date features?

Before you invest in a new patio door, you should consider a number of options to ensure you make the right choice. Although size, style and colour may be your primary concerns, it's also important to consider energy efficiency, ease of operation, durability and ongoing maintenance.

By asking these questions at the planning stage, you'll have the peace of mind that you're making the right choice – and can enjoy your investment for many years to come!

**So read on and find out our top 10 questions to ask your patio supplier...**

# ① How light does the door feel to operate?

It's important for every member of the household to be able to open and close the door with ease.

With traditional PVCu patio doors, the sliding mechanism will consist of four steel wheels rolling along a track whenever the moving pane is opened or closed.

Patio door panels are heavy, due to the amount of glazing they carry, so the sliding pane can be difficult to push or pull – especially for the very young or old. In addition, and over time, dirt and debris is likely to fall into the track, making the rollers start to drag – resulting in the door feeling even heavier and more difficult to operate.

It's critically important that you try out the ease of operation yourself – so find a showroom or test your friends' systems before you decide.

With a Liniar ModLok™ patio door system, you'll notice the effortless opening mechanism, the smooth motion and the noiseless glide, making it feel as light as air to operate.

Fitted with Liniar's revolutionary multi-wheeled 'air glide' system, the Liniar sliding patio door is perfectly balanced as it moves along its track. The built-in brushes gently sweep away any minor debris each time the door is closed, aiding its silent action.



## ② How many wheels do the rollers have?

Wheels keep the sliding pane running smoothly along the track.

The number of wheels is important because the more under each sliding pane, the more stability the door will have. Check the door doesn't rock from side to side on the track when opening or closing it.

Furthermore, the higher the number of wheels, the smoother the opening and closing action tends to be. That's why the Liniar ModLok™ patio door system features eight wheels – double the amount of traditional patio doors – giving it a 'light as air' feel to operate.

The eight wheels in each Liniar ModLok™ patio door are made from acetal plastic material, making them lighter than steel wheels and also more hard-wearing. In addition, the wheels are self-lubricating which helps them to keep their smooth motion for much longer with no maintenance for the homeowner.



### ③ Are the crash stops and deceleration system visible?

Important features on your patio door can spoil its sleek lines.

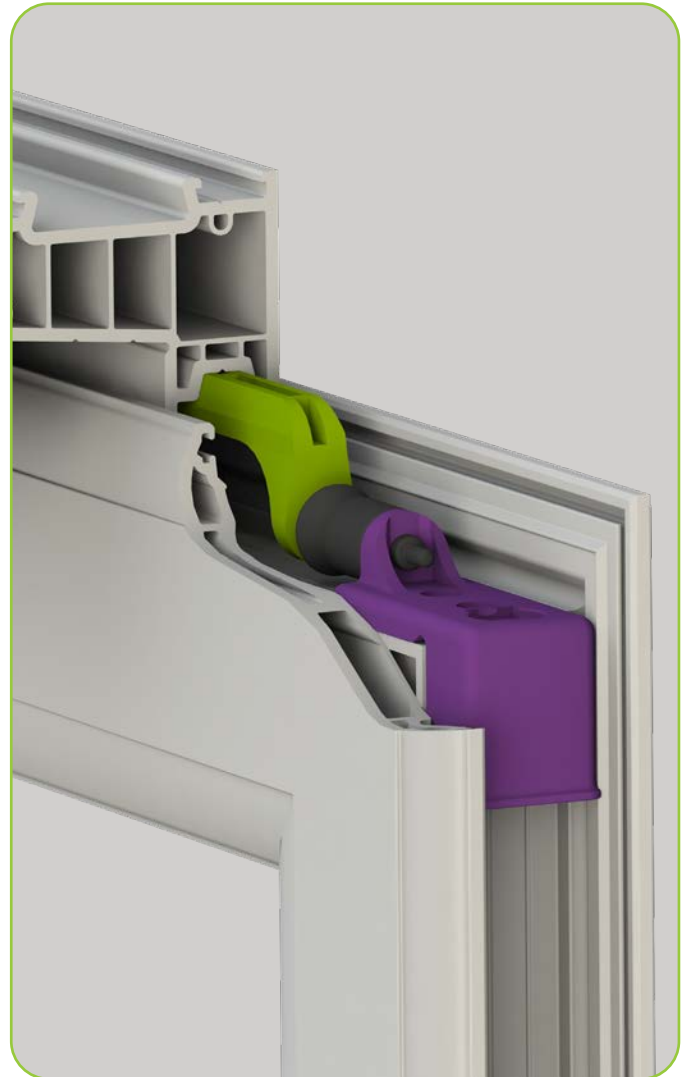
All sliding patio doors need a deceleration system and 'crash stops' to prevent the sliding pane from hitting the fixed sash when the door is opened.

You'll notice the crash stops on most patio doors as the black rubber buffers at the top and bottom on the end of the sliding pane.

Although important features, the crash stops can often impair the aesthetics of the doors as the colours don't match and can be very noticeable.

Liniar ModLok™ patio doors are designed with these important features hidden away inside the frame, so the doors not only operate effectively but remain beautifully sleek too.

The crash stop's unique, innovative design has been patented by Liniar as part of its ModLok™ patio suite.



## ④ Has a full-sized version been cyclic tested?

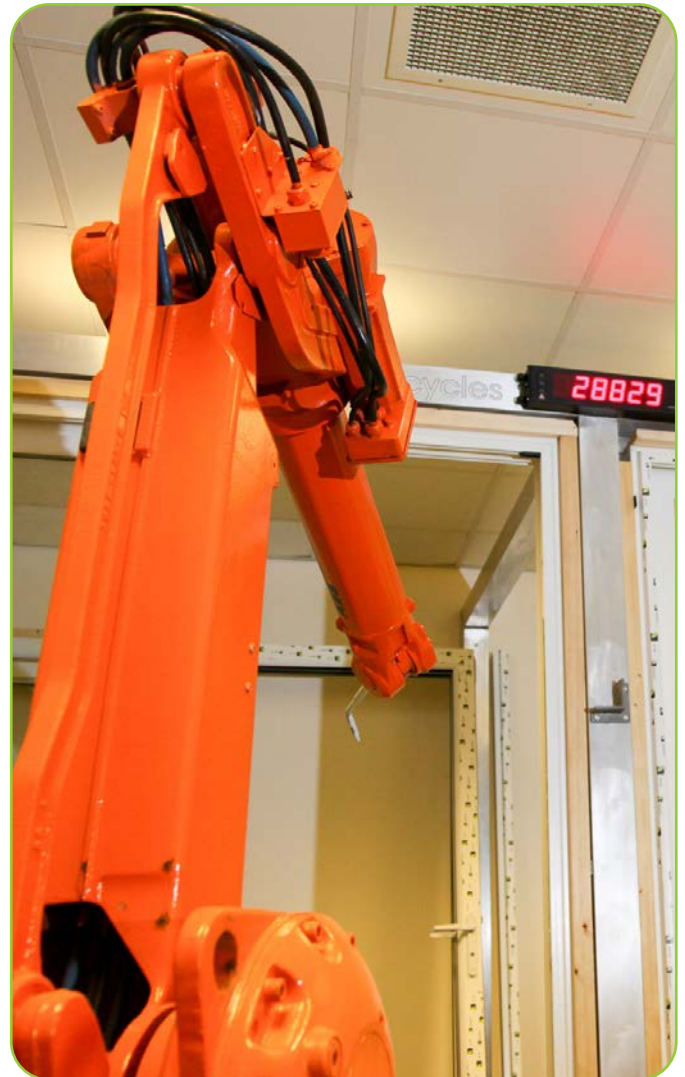
How many times will you open and close your patio door during its life cycle?

British Standards state that a door such as a sliding patio door should achieve a minimum of 10,000 full opening and closing cycles, to ensure durability throughout its useful life.

Many patio door manufacturers don't have the facilities to test doors themselves, so independent testing is often carried out to establish strength and durability through cyclic testing.

Cyclic testing involves the door-set being fully opened and closed as many times as possible until either it passes the test, or until it ceases to operate. If a door manufacturer claims their door has passed a cyclic test, ask whether a full-size door was tested – it has been known for doors made much smaller than usual to be put forward for testing. As the weight can differ hugely (with the largest doors weighing up to twice as much as smaller doors) the accuracy of the testing process should be questioned.

Liniar is the only PVCu system designer to have an in-house ABB robot to test its doors. When a full sized 2-pane Liniar ModLok™ patio door underwent exhaustive testing, it achieved more than three times the British Standard before we stopped the test, and was still fully operational.



## 5 Has a full-sized version been weather tested?

Weather testing is hugely important, especially living in the UK!



With multiple panes, a patio door can be susceptible to air and water ingress, so making sure the doors have passed weather testing is critical.

Common problems can include gaskets failing or not providing a watertight seal - but the correct installation of your patio doors is also important to ensure frames are properly sealed with silicone in places likely to be exposed to water, such as drill holes.

Check that the door has been tested to at least 800 Pascals, which is equivalent to withstanding wind speeds of up to 80 miles per hour.

Liniar has patented a clever centre seal, to ensure weather tightness as well as higher thermal efficiency.

And independent UKAS weather testing on a full-sized 2-pane Liniar ModLok™ patio door provides reassurance it will withstand even the harshest UK weather conditions.



## ⑥ How energy efficient is the patio door?

Windows and doors can account for up to 20% of heat lost from your home.



So it's important to choose doors with a high degree of thermal efficiency.

The lower the U-value, the more efficient the patio door is at preventing the transfer of heat from the inside of your home to the outside – so patio doors with the lowest U-values can help your property retain more of its heat, lowering your heating bills over the long term.

Liniar has patented its unique bubble gasket to ensure your doors won't be draughty, and with multi-chambered EnergyPlus profile used in the frames, the Liniar ModLok™ patio door can achieve a U-value of 1.0 W/m<sup>2</sup>K with triple glazed units.

Even cost effective double glazing will result in a U-value of 1.2 for Liniar ModLok™ patio doors, so you'll be able to enjoy a warmer home during the winter months.

# 7

## Does the door have a low threshold option?

And is the low threshold thermally-broken and Part M compliant?

If you're thinking of installing a patio door to create a seamless entrance to your garden, a low threshold is critically important.

Part M compliance means the door threshold meets the minimum standards required for disabled access in and out of a building – and is also ideal for day to day family living. But many low thresholds that comply with Part M regulations can be inefficient from a thermal perspective.

Liniar's aluminium low threshold is not only Part M compliant AND energy efficient, there are no gaskets in the threshold itself – meaning there's less chance of damage or failure when subjected to daily use.

In addition, there's no need to excavate a trench to install the Liniar low threshold, as its innovative design means it sits on top of an existing surface – providing less disruption and mess for you.

Finally, with the Liniar low threshold, the doors' rolling mechanism is not hidden away, sitting on top of the track for easier cleaning and removal of any debris.



## 8 Do the locks include anti-lift features?

It's a well-known fact that burglars often target patio doors to gain access.

This is because a patio door has traditionally been the weakest spot from a security viewpoint – many older doors could literally be unscrewed and lifted off their tracks, with would-be thieves gaining access to your home in a matter of seconds.

Check the security features of the patio system, in particular looking at the external sliders to see if they could be lifted. Are shootbolts and hook bolts included for even greater security?

Liniar developed its patented ModLok™ reinforcement and locking mechanism in conjunction with Yale, one of the world's leading lock brands.

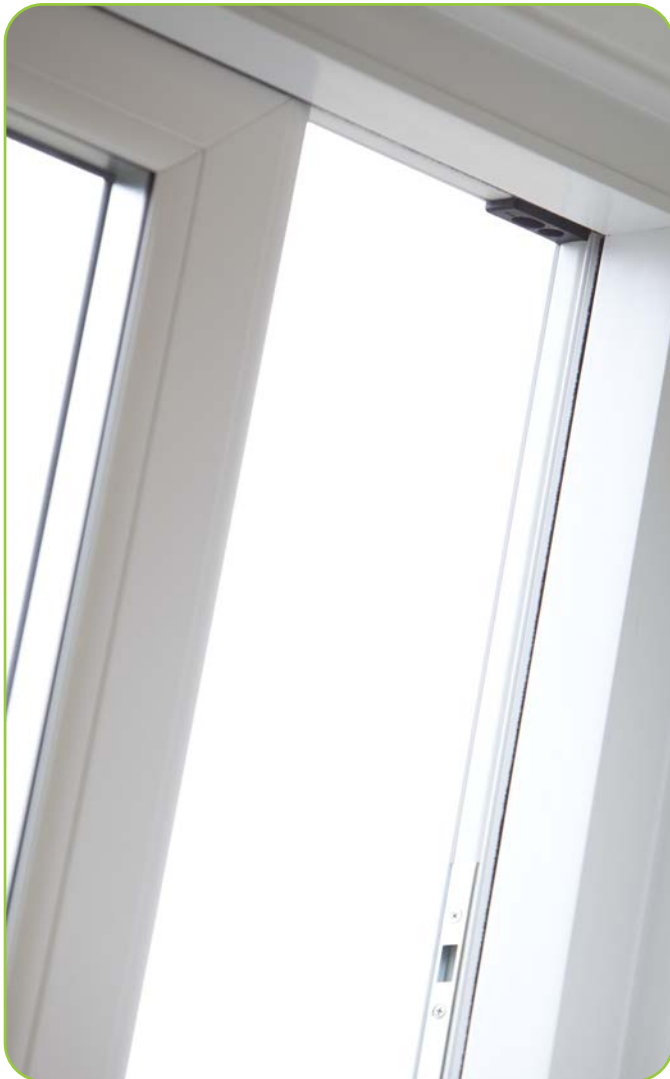
Featuring four hook bolts, two shootbolts at the top and bottom of each sliding pane, optional anti-snap lock cylinders and anti-lift technology, the Liniar ModLok™ patio system surpasses any other door of its type when it comes to security and peace of mind.



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## There's no direct access to my back garden

If the only access to your back garden is through your house, ask whether the patio is available mechanically jointed.



Gaining access to install a new patio door at the back of your home can be a challenge – you may have dismissed the idea of a patio door due to access restrictions to the rear of your property.

However if the patio system is available with mechanical jointing, your doors can be assembled on-site, so they can usually be carried through the house with ease.

Mechanical jointing means that the components of the door frame are supplied separately, rather than being welded together in one complete outer frame, and are fixed together on site.

The Liniar ModLok™ patio system is available with mechanical joints, making it easier for the installer to transport and handle, opening up the option of a patio door to those who didn't think it was possible.

## 10 How much maintenance is required?

PVCu doors offer a truly low-maintenance option.



As with any product with moving parts, an annual check and wipe with oil is essential to keep your doors opening and closing smoothly.

But when it comes to the frames, how much effort will you need to put in each year to keep them looking their best?

With timber frames, no matter how much they are treated when new, there will always be an element of maintenance required to keep them looking their best.

In addition to regular sanding and painting or staining, timber doors can swell when exposed to wet weather conditions and are probably not the best option for properties in wetland areas or near to the sea.

The PVCu frames used in Liniar's ModLok™ patio doors merely require an occasional wipe down with soapy water to keep them looking their best - making them a truly low-maintenance option for your home.

## More information

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Visit the Liniar website and social media channels to find out more about Liniar patio doors.

### Brochures

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Visit the Liniar "homeowner centre" at <http://bit.ly/liniarhomeowners> to download a range of brochures from the Liniar website - from windows, doors and roofs to maintenance and installation guides - and more!

### Videos

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Visit the Liniar YouTube channel at <http://youtube.com/LiniarUK> for videos about Liniar, the Liniar patio, installation guides and more.

### Social media

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Liniar is active on social media channels. Follow us to keep up with the latest news and product developments.





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## 7 great reasons to choose Liniar

**INNOVATIVE** – The only entirely new PVCu window and door profile system to be developed in the last 10 years

**ENERGY EFFICIENT** – Designed from scratch to achieve the pinnacle of thermal performance and retain more heat in your property

**SAFE AND SECURE** – Engineered with built-in security features and approved by independent testing facilities

**BRITISH MADE** – Frames are extruded in our state-of-the-art factory in the heart of Derbyshire

**LEAD FREE** – All Liniar profiles are extruded using materials that are 100% lead free

**QUALITY ASSURED** – Backed with ISO 9001 accreditation for your peace of mind

**GUARANTEED** – All Liniar frames are guaranteed to not warp, split or discolour for 10 years

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