High performance windows & doors for low energy homes & buildings

10 year warranty

FSC
www.fsc.org
FSC® C008624
The mark of responsible forestry

Secured by Design

www.greenbuildingstore.co.uk
Energy efficient timber windows & doors

Triple glazing will bring comfort and warmth to your home, helping eliminate cold spots and down draughts near windows. Our FSC® certified timber windows and doors are made from redwood or fair-faced oak.

Whether you are replacing windows or building your own grand design, our ranges offer a beautiful solution for low energy and Passivhaus homes.

As a small specialist supplier with over 20 years expertise in supplying high performance windows and doors, Green Building Store will be part of your project team. We offer outstanding personal service and technical support for your project, from initial quotation to aftersales.

Specification
“"I enjoy working with Green Building Store and Green Building Store windows and doors are our go to specification for high performance windows and doors. The combination of performance, cost and service is great, and difficult to find elsewhere. The PERFORMANCE range usually matches the U value requirements and specifications for the low energy and Passivhaus projects we work on."”

Paul Testa Architect

Performance
“The windows and doors are fantastic and we are more than happy with their quality, appearance and performance.”

Clients

Newbuild project Sheffield

Luke Gilman
Windows Department Manager

www.greenbuildingstore.co.uk
I am not keen on PVC windows and knew that I wanted wooden, energy efficient windows for our project. We got quotes from a number of companies, which were all quite expensive. I’m so glad that we then came upon Green Building Store’s website and got a quote for the windows and doors, which turned out to be around half the price of the other quotes.”

Angela Morley
Client

“We are really happy with our PERFORMANCE windows and doors. They look great and passers-by have even asked us about them! The customer service has been amazing and the whole company and everyone we have dealt with have been a delight. The window fitting team were exceptional and really helpful on site.”

Angela Morley
Client
Helpful and responsive supplier

“The PERFORMANCE windows and doors were high performance and a good quality without being over fussy or expensive. We’re very happy with the windows and doors – they look brilliant and are performing well. The service from Green Building Store, including fitting team and aftersales, has been fantastic. With windows and doors, it really matters to have a helpful and responsive supplier and aftersales team.”

Will Anderson Client

The Orchard newbuild project London
Passers-by
"We love the windows and doors! I can’t tell you how many comments we’ve had about them from neighbours and passers-by. The house was pretty cold before so we’ve been feeling a lot warmer since the retrofit.”
Debbie Isles Client

Clean, simple aesthetics
“We have specified Green Building Store windows on various traditional and contemporary, refurbishment and newbuild projects over the past 10 years, and all our clients have been very pleased with them.
We particularly like the green credentials, as well as the exceptional performance and quality, and the clean, simple aesthetics.”
Fenella Tratt
Hooley & Tratt Partnership

Paint finish colour RAL 7044
\textbf{Green Building Store}

“We are delighted our house is now complete and has become a great family home. Green Building Store played a very significant role throughout and their input at all stages has been invaluable, something for which we are very grateful. We couldn’t recommend them highly enough.”

Clients

\textbf{Lift and slide doors}

“We spent a great deal of time researching similar products from several other companies and the quality and design of Green Building Store’s range stood out against the rest. We were able to look at working examples of the windows and doors in their showroom and the performance, clearly visible attention to detail plus the level of customer service meant there was no decision to be made. The very large sliding doors, despite their size and weight, move easily and silently, they provide excellent sound-proofing and certainly add to the overall cozy feel of the house.”

Clients

For more on our lift and slide doors go to page 28
Performing well
“The thermal images of the house, before and after the retrofit, show how well the windows are performing compared to the original windows. The aesthetics of the windows are also very pleasing and they always attract interest when we do OpenHomes events etc.”

Ian Mawditt Client

Fitted the bill
“We looked at different triple glazed windows and Green Building Store’s PERFORMANCE range was by far the most cost-effective of all the quotes we received. They were of a high quality and the U value fitted the bill for the level of retrofit that we were aiming for.”

Ian Mawditt Client
**Aesthetics**

“The PERFORMANCE windows and French doors from Green Building Store are very impressive. The clients and construction team have been very pleased with them. Passers-by remark on them and we’ve already had expressions of interest from other potential clients in the area.”

Chris Hales Project Manager

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**Arts & Crafts style house Sussex**

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**Flexibility**

“The clients were very keen to have triple glazing but a lot of the suppliers we explored couldn’t provide the interstitial glazing bars, eyebrow windows or warranties required for the project. Green Building Store was able to deal with these technical requirements, whilst also offering high performance triple glazing at a good price.”

Chris Hales Project Manager
Newbuild project  County Durham

Meeting Planning requirements

“Green Building Store’s mock sliding sash option gave the best thermal performance sliding sash type window that we could find. It is a tilt and turn inward opening window that gives a convincing outward appearance of a sliding sash window. We were relieved that it met with the planning department’s approval. We have been more than happy with the windows – they do what they say on the tin!”

Phil Newbold
Passive House Consultant

For more on mock sliding sash windows go to www.greenbuildingstore.co.uk
Passivhaus homes
Exeter City Council

Competitive advantage
“When we were researching Passivhaus suitable window components, we came across Green Building Store’s PERFORMANCE range which offered the high performance that we needed, combined with affordability. We put them out to tender with our contractors against a competitor’s range and the PERFORMANCE range came out on top.”

“We have been happy with the PERFORMANCE windows and doors – they look good and we are pleased with the finish. We would consider specifying the product again if it continues to offer a competitive advantage of price and performance.”
Jonathan Barattini
Architect, Gale & Snowden

Part of the team
“Green Building Store’s PERFORMANCE window suited the project for a number of reasons. It is a substantial window which is solid without being too clunky and is sufficiently robust to help us meet the EnerPHit airtightness requirements. It also offered a cost-effective option for the project and an alternative to high-end Passivhaus ranges. It was really good to have Green Building Store’s input on window detailing at the very beginning of the project. We got far more input from Green Building Store than we would get from other window suppliers and they very much worked with us as one of the team.”
Eric Parks and Nittai Edelmann
Architects

Paint finish colour RAL 6034
Timber finish colour Oak wood stain

Layne Fields Passivhaus project
Devon

Robust
“We specified the ULTRA entrance doors, after examining a range of other options available, because they best met all our requirements for airtightness and U values. We have been impressed with their robustness and appearance.

Green Building Store also helped us develop detailing for the door thresholds using Compacfoam 260 to reduce thermal bridging at the threshold detail.”
Cath Atkins
Associate, Mitchell Architects

On our side
“We looked at a wide range of window suppliers and Green Building Store’s PERFORMANCE range stood out for us on quality and price. We are very happy with the quality and robustness of the PERFORMANCE windows and doors. We have had a lot of positive feedback about them. We really got the feeling that Green Building Store were on our side and batting for us. They have been a nice bunch of people to deal with.”
Mark Watts
Architect, developer, builder
Cedar Rydal Ltd

Paint finish colour RAL 7035

Low energy development
Bromley
Part of your team

As a small company with over 20 years experience of working on low energy homes and buildings across the UK, we combine technical expertise with outstanding personal service, a conscientious fitting team and dedicated aftercare.

Whether you are refurbishing your home, embarking on a new build or realising your Passivhaus dream, we can offer the support and advice you need to make your project a reality.

From our FREE talks and resources to full consultancy service and product support, Green Building Store will be one of your project team.
PERFORMANCE
78 mm profile

Our best-selling high performance range for energy efficient homes

The PERFORMANCE range is an ideal choice for most projects, whether you are simply replacing your windows, creating an energy efficient retrofit or specifying for a new home. With low U values, an excellent range of designs and styles, and competitive pricing, PERFORMANCE is a reliable, robust solution for your energy efficient project.

- U value as low as 0.85 W/m²K
- FSC® certified timber
- Part Q compliant and Secured by Design options
- Triple glazed as standard

ULTRA
98 mm profile

For Passivhaus and advanced energy efficient specification projects

The ULTRA range offers an advanced specification suitable for certified Passivhaus and other ultra low energy projects. It is available in solid timber frame or an insulated frame version, both suitable for certified Passivhaus developments.

- U values: Insulated frame: 0.68 W/m²K
  Solid frame: 0.75 W/m²K
- Passivhaus certified window option with insulated frame
- FSC® certified timber
- Part Q compliant and Secured by Design options

“...I enjoy working with Green Building Store and Green Building Store windows and doors are our go to specification for high performance windows and doors. The combination of performance, cost and service is great, and difficult to find elsewhere. The PERFORMANCE range usually matches the U value requirements and specifications for the low energy and Passivhaus projects we work on.”

Paul Testa  Paul Testa Architecture

Mix & match

The ranges can be mixed and matched with, for example, ULTRA doors combined with PERFORMANCE windows.
Outward opening casement windows

Technical data

PERFORMANCE
78 mm profile
Our best-selling high performance range
$U_w$: 0.85 W/m$^2$K

Glazing & U values
Whole window $U_w$: 0.85 W/m$^2$K Redwood
0.93 W/m$^2$K Oak
Glazing U value: $U_g$: 0.58 W/m$^2$K
Triple unit: Argon fill 44 mm
Light transmission value: 74.1%

ULTRA
98 mm profile
For Passivhaus and higher specification projects
$U_w$: 0.75/0.68 W/m$^2$K

Glazing & U values
Solid frame:
Whole window $U_w$: 0.68 W/m$^2$K Redwood
0.72 W/m$^2$K Oak
Glazing U value: $U_g$: 0.52 W/m$^2$K
Triple unit: Argon fill 52 mm
Light transmission value: 74.1%

Inward opening tilt and turn

Technical data

PERFORMANCE
78 mm profile
Our best-selling high performance range
$U_w$: 0.85 W/m$^2$K

Glazing & U values
Whole window $U_w$: 0.85 W/m$^2$K Redwood
0.94 W/m$^2$K Oak
Glazing U value: $U_g$: 0.58 W/m$^2$K
Triple unit: Argon fill 44 mm
Light transmission value: 74.1%

ULTRA
98 mm profile
For Passivhaus and higher specification projects
$U_w$: 0.75/0.68 W/m$^2$K

Glazing & U values
Solid frame:
Whole window $U_w$: 0.68 W/m$^2$K Redwood
0.72 W/m$^2$K Oak
Insulated frame:
Whole window $U_w$: 0.68 W/m$^2$K Redwood
0.72 W/m$^2$K Oak
Glazing U value: $U_g$: 0.52 W/m$^2$K
Triple unit: Argon fill 52 mm
Light transmission value: 74.1%
Entrance doors

Performance 78mm profile
Our best-selling high performance range
Uₜₐₜ as low as 0.95 W/m²K

Glazing & U values
Single fully glazed door
Whole door Uₜ: 0.95 W/m²K Redwood
1.1 W/m²K Oak

ULTRA Triple unit: Argon fill 44 mm
Light transmission value: 74.1%

Single fully panelled door
Whole door Uₜ: 1.1 W/m²K Redwood
1.3 W/m²K Oak

Accessibility
Building regulation Part M requires at least one entrance door in a new build dwelling to allow mobility access. To comply with Part M a door needs to have a mobility threshold and a clear opening width of 775 mm.

Green Building Store supplies our single and double doors with a Part M compliant threshold, as standard. We can however add various sizes of hardwood thresholds if requested.

To get the 775 mm clear opening required for new build dwellings, the minimum manufactured width of our PERFORMANCE door, including the frame, is 1014 mm and our ULTRA door is 1027 mm. For commercial buildings and some social housing schemes the clear opening required may be bigger and in these instances the manufactured width of our doors may need to increase accordingly.

Please speak to a member of the windows team if you need further explanation or to check which regulations apply to your project.

Please note: For retrofit projects Part M does not apply unless the building is classed as change of use.
Other door types

**Lift & slide**
Green Building Store offers one of the most energy efficient lift & slide doors available in the UK, with high thermal and airtightness performance.

One pane of the door slides behind the other, with options for one pane or both panes sliding.

Up: as low as 0.84 W/m²K
Maximum size: Maximum individual door leaf size up to 2500 mm x 2500 mm
Paint finish colour RAL 7022

**French doors**
Inward or outward opening double doors.

Up: as low as 0.84 W/m²K
Maximum size: 2400 mm x 2400mm
Paint finish colour RAL 7015

**Bi-fold or Fold aside**
Doors that open with a concertina effect which can open the whole span of the opening. We also supply Lacuna bi-fold doors which meet Part Q requirements.

Up: as low as 0.9 W/m²K
Maximum size: 6000 mm x 2400 mm 850 mm max sash width
Paint finish colour available on request

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**Frame finishes**

<table>
<thead>
<tr>
<th>Colour</th>
<th>Standard RAL colours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oak</td>
<td>Clear</td>
</tr>
<tr>
<td>Light Oak</td>
<td></td>
</tr>
<tr>
<td>Oak</td>
<td>Teak</td>
</tr>
<tr>
<td>Walnut</td>
<td>Redwood</td>
</tr>
<tr>
<td>Afrosia</td>
<td>Afzelia</td>
</tr>
<tr>
<td>Clear</td>
<td></td>
</tr>
<tr>
<td>Oak</td>
<td></td>
</tr>
<tr>
<td>Pine</td>
<td></td>
</tr>
</tbody>
</table>

**Window hardware**

<table>
<thead>
<tr>
<th>Handle Type</th>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outward opening handles</td>
<td>polished gold, polished chrome, smokey chrome</td>
</tr>
<tr>
<td>Inward opening handles</td>
<td>satin chrome, white, black</td>
</tr>
</tbody>
</table>

**Door hardware**

<table>
<thead>
<tr>
<th>Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>polished gold, polished chrome</td>
</tr>
<tr>
<td>smokey chrome, white</td>
</tr>
<tr>
<td>black, gold F3, silver F1</td>
</tr>
</tbody>
</table>

**Accoya drip rail**

Colour matched to any RAL colour

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**For more colour and hardware options, go to [www.greenbuildingstore.co.uk](http://www.greenbuildingstore.co.uk)**
Many more window and door styles available, please ring us on 01484 463336 to discuss.

GBS window images are shown as the European notation, so viewed from the inside with a 'V' notation indicating the handle side. This is different from the standard UK notation.
Part Q

Approved Document Q (Part Q) of the Building Regulations for England became mandatory for all new dwellings on 1 October 2016. This means that windows and doors in new dwellings, where Part Q is applicable, will need to be security tested to PAS 24, or equivalent standard.

Where does it apply?
Part Q is only applicable in England. It does not currently apply in Wales except on ‘excepted energy buildings’, although this is under consideration by the Welsh Assembly. It does not apply in Scotland which has separate requirements for security covered by Building Standard 4.13. It does not apply in Northern Ireland. In England it applies only to new dwellings, which includes existing buildings with material change of use to new dwelling. It applies only to ‘easily accessible doors and windows’.

What does ‘easily accessible’ include?
Either a window or doorway, any part of which is within 2 m vertically of an accessible level surface such as the ground or basement level, or an access balcony, or a window within 2 m vertically of a flat or sloping roof (with a pitch of less than 30°) that is within 3.5 m of ground level.

Secured by Design
Secured by Design (SBD) is a police initiative to increase building security. Windows and doors must be tested, have third party quality assurance and be registered. An SBD certified unit also provides compliance for Part Q.

Green Building Store ranges
Windows and doors in the brochure marked SBD or Part Q have a compliant option available, which should be specified where necessary. Please enquire where not marked in the brochure.

This information is given as general guidance only and is not a definitive guide to the regulation. For full information please consult Approved Document Q of the Building Regulations which is free to download. Please consult us for more information.

Trickle Vents

Whether you need to discuss your quotation or finalise details of your order we are here to make your window and door specification smooth and hassle-free.

Tel: 01484 463336
info@greenbuildingstore.co.uk

Types of Trickle Vents

Conventional Trickle Vent

Options Glazing

Solar control glazing to reduce the risk of over-heating
Acoustic glazing to reduce sound levels from external environment
Toughened or laminated safety glass to meet building regulation safety requirements
Self-cleaning glass ideal for large facades where cleaning is difficult

Obscure Glazing Samples

Chinchilla
Crepis
Flutes
Flutes Matt
Kathedral
Kura
Mastercarre
Niagra
Puntaedo
Screen
Simple obscure
Waterdrop

Sills

Extension sills protect & maintain windows by directing water away from the window frame.

Stone bed connector to connect to a stone sill. Available in anodised silver or brown, or any standard RAL colour.

Aluminium extension sills available in anodised silver or brown, or any standard RAL colour. Available in projections up to 400 mm for deep recessing into highly insulated walls.

Timber sills for windows & doors, available in oak or Accoya.

Safety


Integrated child restrictor.
technical summary

Timber
Green Building Store windows and doors are made from FSC-certified redwood or fair-faced oak, laminated and finger jointed to EN 204 D4.

Construction
- Door sashes – comb-jointed
- Frames – mortice and tenon jointed in compliance with BS EN 942
- Adhesive – modified PVA, D4 grade

Finishes
Low maintenance microporous water-based finishes

Design
- Accoya drip rail to enhance durability and reduce maintenance
- Dual weather seals
- Extension sill groove option
- Window board groove option
- Internal beading, allows reglazing from inside and enhances security

Glazing
- Factory glazing
- Warm edge spacer to minimise heat lost and condensation at the edge of the unit

Fitting service
The correct installation of windows and doors is essential to ensure their optimal performance. We recommend Green Building Store’s own in-house FENSA-accredited fitting service, which is available for most areas of the UK.

Members of:

FREE technical support
Included in your contract we offer the following technical support for your low energy or Passivhaus project, in addition to PHPP-ready data:
- Installation PSI values*
- Technical advice on detailing*

For more information, please contact the contract manager dealing with your order. Tel: 01484 463336

*See Terms & Conditions: www.greenbuildingstore.co.uk/free-product-technical-support/
Get in touch

We pride ourselves on our personal, friendly and non-pushy customer service. Call Paul Cowley for advice on the most suitable range for your project, to organise a quotation or to set up a showroom visit.
Tel: 01484 463336
Email: info@greenbuildingstore.co.uk

Also from Green Building Store:

MVHR

ventilation

heat recovery

The best MVHR system…

…is the one you don’t know is there

A well-designed MVHR system:
• Optimises the efficiency of the heat recovery
• Prevents noise, mechanical vibration and air turbulence problems
• Maximises energy efficiency of the MVHR unit

Mechanical ventilation with heat recovery (MVHR) ensures high air quality whilst conserving energy in buildings by recovering heat from extracted air and transferring it to the incoming air. Green Building Store is widely recognised as one of the leading technical experts in the UK on MVHR systems for Passivhaus and low energy projects.

Insulation & airtightness

Make your windows and doors work at their optimum with our specialist insulation and airtightness products. Discounts are available when you buy our windows and doors!