



High performance windows & doors for low energy homes & buildings



The mark of
responsible forestry

All our windows & doors
are FSC® certified



Passivhaus & low energy experts www.greenbuildingstore.co.uk

Energy efficient timber windows & doors for Passivhaus & low energy homes

Triple glazed windows and doors can make a big difference to your home's comfort and warmth and are essential for ultra low energy projects like Passivhaus.

Green Building Store's windows and doors are made from FSC® 100% redwood or fair-faced oak.



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 Hale Project Manager



Arts & Crafts style house Sussex

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 Hale Project Manager





www.greenbuildingstore.co.uk

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 page 24

Newbuild project County Durham

Refurbishment Oxfordshire



Good value energy efficiency

"We knew we wanted triple glazing and we wanted to get it from a company that really cared about energy efficiency. Green Building Store were very knowledgeable about triple glazing and the range was also good value."

"We're really pleased with the PERFORMANCE windows and doors – they're fantastic. Our energy consumption over the winter has dropped from 28,000 kWh in the previous winter to 5000 kWh this last winter since all the improvements."

Clients



Quality and durability

"I was impressed with the quality of the PERFORMANCE range and the price was good. Another important factor for this project was that the quoted delivery time was also quite speedy. In addition to their durability and thermal properties, the windows look good too."

Colin Campbell
Architect, Low Carbon Studio

Newbuild project East Lothian



Newbuild project North Yorkshire



Cost effective for low energy
"We chose Green Building Store's PERFORMANCE range because the price was very attractive and they were suitable for our low energy build. We also wanted triple glazing to ensure a quiet house and a design which was in no way 'fussy'. The windows are very good looking. They are plain but sleek, and fit with our traditional exterior and contemporary interior. They have attracted a lot of interest because of their quality appearance."
Clients



High profile refurbishment projects



Erneley Close EnerPHit project Manchester

The UK's first large-scale EnerPHit retrofit

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

www.greenbuildingstore.co.uk

Carbon Co-op ‘whole house’ retrofit scheme Manchester



Technical support

“We knew that we wanted timber windows on the project because of the lower embodied energy and longevity. Cost-wise the ULTRA windows came out better than other timber ranges we had quotes for and also the windows looked aesthetically better than other similar options.”

“We have had good feedback from both the contractors and clients on the quality of the windows. We have also been impressed with the level of support and service we have had from Green Building Store – including help with detailing and optimum installation of windows. I would definitely specify them again and in fact already have”

Marianne Heaslip
Architect at URBED





Barn conversion Nottingham

www.greenbuildingstore.co.uk



www.greenbuildingstore.co.uk

Newbuild Vicarage London



Newbuild house Monmouthshire



Incredibly warm

"We have been really pleased with the windows and doors, they are really lovely. We get a lot of comments and interest in them from visitors coming to the house. The house has been incredibly warm and cheap to run."

Clients



Barn conversion Yorkshire

Customer service

"We have been delighted with both the quality of the windows and doors and also the customer service by Green Building Store. Nothing has been too much trouble and we have been kept fully informed about the progress of the order."

Clients

Outward opening casement

GBS PERFORMANCE* 78mm profile

Cost-effective option for low energy retrofits and newbuilds

Technical data

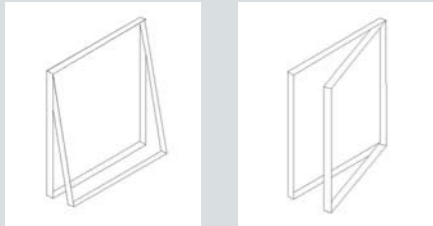
Glazing & U values

Whole window U_w : 0.85 W/m²K Redwood
 Whole window U_w : 0.93 W/m²K Oak
 Glazing U value: U_g : 0.58 W/m²K
 Triple unit: Argon fill 44 mm
 Light transmission value: 74.1%

Typical maximum sizes

Fixed light: 2500 mm x 2500 mm
 Side hung: 950 mm x 1520 mm
 Top hung: 1300 mm x 1650 mm

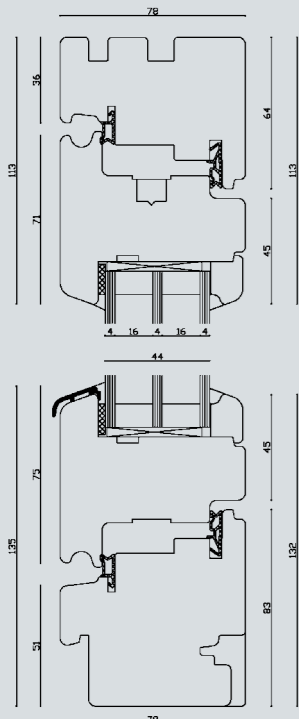
Opening styles



top hung

side hung

CAD section



From outside



From inside

* Formerly known as Ecocontract



Outward opening casement

GBS ULTRA* 98mm profile

Ideal for Passivhaus and ultra low energy projects

Technical data

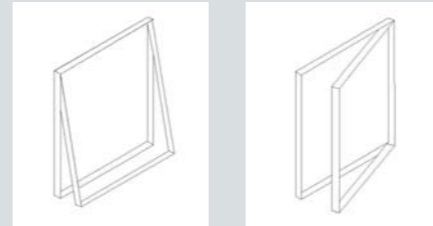
Glazing & U values

Solid frame:
 Whole window U_w : 0.75 W/m²K Redwood
 Whole window U_w : 0.83 W/m²K Oak
Insulated frame (Passivhaus certified):
 Whole window U_w : 0.68 W/m²K Redwood
 Whole window U_w : 0.72 W/m²K Oak
 Glazing U value: U_g : 0.52 W/m²K
 Triple unit: Argon fill 52 mm
 Light transmission value: 74.1%

Typical maximum sizes

Fixed light: 2500 mm x 2500 mm
 Side hung: 950 mm x 1520mm
 Top hung: 1300 mm x 1650 mm

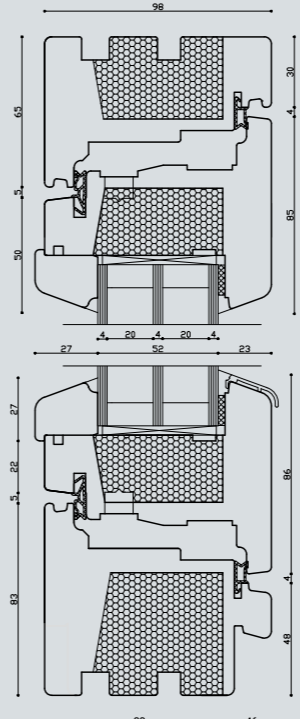
Opening styles



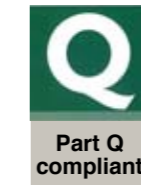
top hung

side hung

CAD section



Showing insulated frame section



insulated frame



From outside



From inside

* Formerly known as Ecocontract ULTRA

Inward opening tilt and turn

GBS PERFORMANCE* 78mm profile

Cost-effective option for low energy retrofits and newbuilds

Technical data

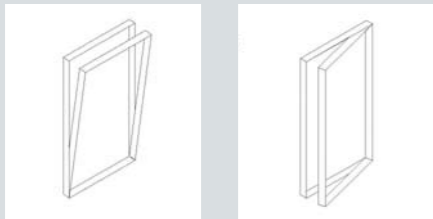
Glazing & U values

Whole window U_w : 0.85 W/m²K Redwood
 Whole window U_w : 0.94 W/m²K Oak
 Glazing U value: U_g : 0.58 W/m²K
 Triple unit: Argon fill 44 mm
 Light transmission value: 74.1%

Typical maximum sizes

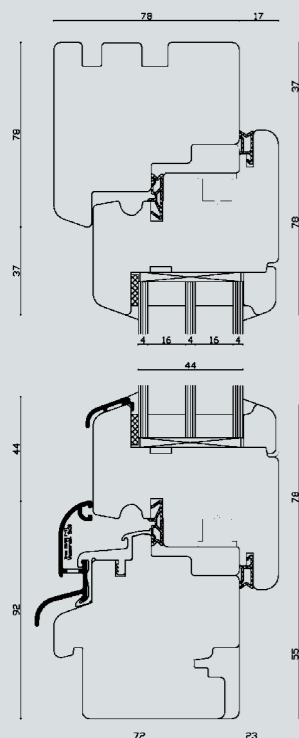
Tilt & turn: 1300 mm x 2300 mm
 Tilt only: 2000 mm x 950 mm
 or 1300 mm x 2300 mm

Opening styles



tilt & turn

CAD section



From outside



From inside



* Formerly known as Ecocontract

Inward opening tilt and turn

GBS ULTRA* 98mm profile

Ideal for Passivhaus and ultra low energy projects

Technical data

Glazing & U values

Solid frame:
 Whole window U_w : 0.75 W/m²K Redwood
 Whole window U_w : 0.83 W/m²K Oak

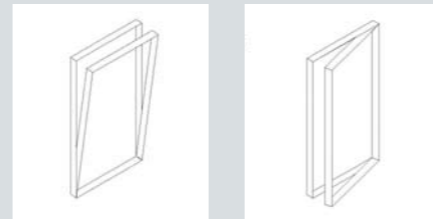
Insulated frame:

Whole window U_w : 0.68 W/m²K Redwood
 Whole window U_w : 0.72 W/m²K Oak
 Glazing U value: U_g : 0.52 W/m²K
 Triple unit Argon fill 52 mm
 Light transmission value: 74.1%

Typical maximum sizes

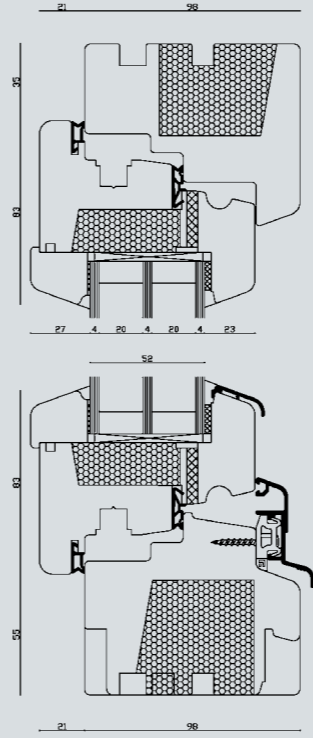
Tilt & turn: 1300 mm x 2300 mm
 Tilt only: 2000 mm x 950 mm
 or 1300 mm x 2300 mm

Opening styles



tilt & turn

CAD section



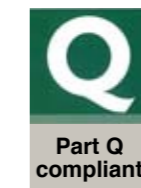
Showing insulated frame section



From outside



From inside



* Formerly known as Ecocontract ULTRA

Entrance doors

GBS PERFORMANCE*

GBS ULTRA**

Technical data

Glazing & U values

PERFORMANCE Glazed door

Whole door U_D : 0.95 W/m²K Redwood

Whole door U_D : 1.1 W/m²K Oak

Glazing U value: U_g : 0.58 W/m²K

Triple unit: Argon fill 44 mm

Light transmission value: 74.1%

ULTRA Glazed door

Whole door U_D : 0.79 W/m²K Redwood

Whole door U_D : 0.89 W/m²K Oak

Glazing U value: U_g : 0.52 W/m²K

ULTRA Triple unit: Argon fill 52 mm

Light transmission value: 74.1%

PERFORMANCE Boarded door

Whole door U_D : 1.1 W/m²K Redwood

Whole door U_D : 1.3 W/m²K Oak

Panel U value: U: 1.0 W/m²K (polystyrene)

ULTRA Boarded door

Whole door U_D : 0.56 W/m²K Redwood

Whole door U_D : 0.67 W/m²K Oak

Panel U value: U: 0.22 W/m²K (VIP)

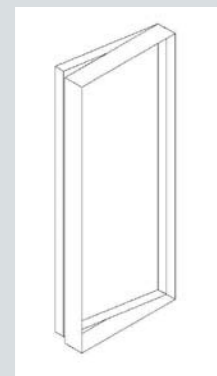
Lower U value options available with ULTRA insulated frame version

Typical maximum sizes

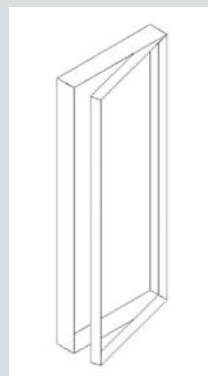
Width 1250 mm

Height 2300 mm

Opening styles



inward



outward



* Formerly known as Ecocontract

** Formerly known as Ecocontract ULTRA

door style examples



GL01



GL02



GL03



GL04



GL05



GL06



GR01



GR02



GR03



PA01



PA02



PA03



PA04



PA05



PA06



PA07



PA08



PA09

Accessibility

Building regulations now require entrance doors to have a mobility threshold and to be of a minimum width to accommodate wheelchairs etc.

glazed



boarded



Now also available with tongue and groove panelling



Other door types

French doors

French or double doors are often fully glazed to get the benefit of light into the house and to enjoy the view outside. Inward or outward opening, our triple glazed French doors are ideal for low energy projects.



door styles



DD01 DD02 DD03



DD04 DD05 DD06



Typical maximum sizes

- Total opening width up to 2500 mm x 2300 mm (1250 mm for each door leaf)
- Height 2300 mm

Bi-fold doors

Bi-fold doors are ideal for those wanting to create the effect of having the 'outside inside'. They are especially good for larger spaces/openings in the wall.



For designs or sizes not included here, please contact our technical team



Typical maximum sizes

- Maximum individual door leaf size up to 850 mm
- Height 2300 mm

Typical maximum sizes

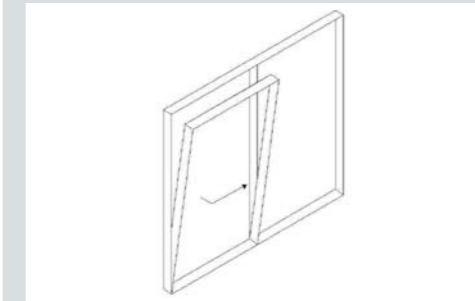
- Maximum individual door leaf size up to 2000 mm
- Height 2300 mm



Tilt & slide doors

Cost-effective option for larger doors. One pane of the door is fixed and the other slides behind it and can also tilt inwards for ventilation. Also offers good levels of airtightness.

door style

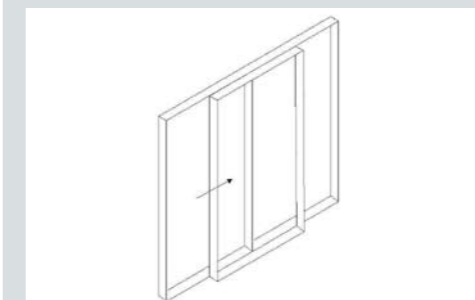


For designs or sizes not included here, please contact our technical team

Lift & slide doors

Traditional sliding doors, with modern performance levels. Works by one pane sliding behind the other. Suitable for large openings.

door style



For designs or sizes not included here, please contact our technical team



To see videos showing door mechanisms in operation, go to www.greenbuildingstore.co.uk

options colours/hardware

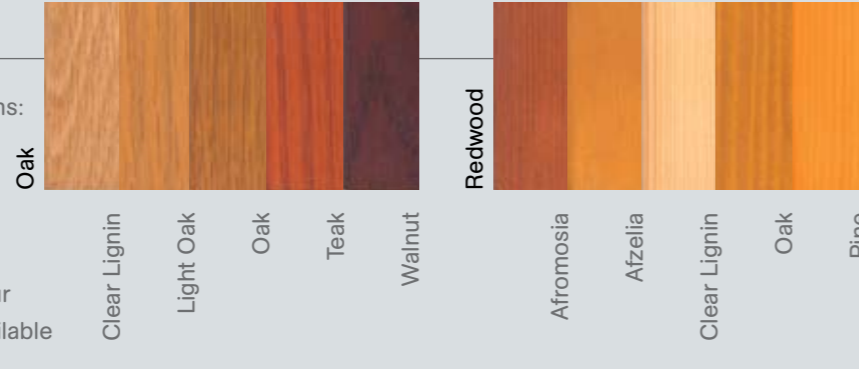
frame finishes

Standard RAL colours



Timber stains:

Other colour options available



hardware

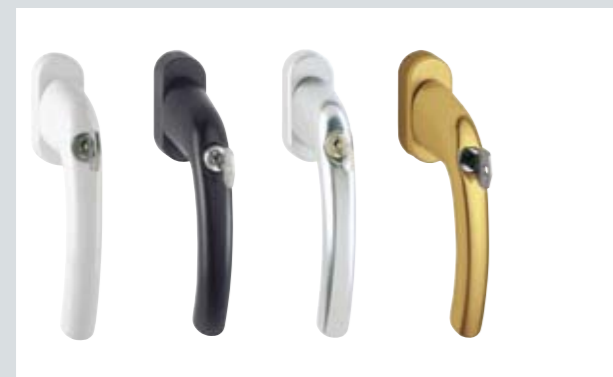
Outward opening handles available in:



White F9016 Black F9714 Chrome F49 Silver matt F1 Gold matt F3

hardware

Inward opening handles available in:



White F9016 Black F9714 Silver matt F1 Gold matt F3

hardware

Door handles available in:



White F9016 Black F9714 Chrome F49



Silver matt F1 Gold matt F3 Polished brass F77

aluminium drip rail

Colour matched to any RAL colour

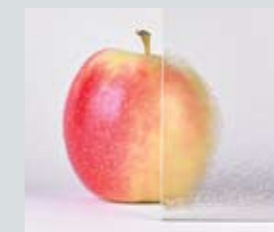


options glazing/trickle vents

obscure glazing samples



Althdeutsch



Chinchilla



Crepri



Flutes



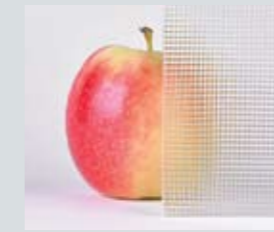
Flutes Mat



Kathedral



Kura



ListralD



Mastercarre



Puntaedo



Screen



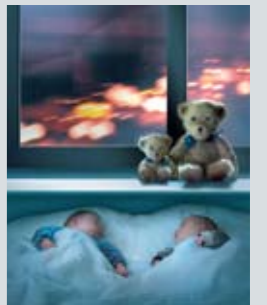
Simple obscure

glazing options

Solar control glazing to reduce the risk of over-heating



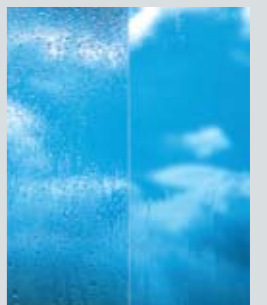
Acoustic glazing to reduce sound levels from external environment



Toughened or laminated safety glass to meet building regulation safety requirements



Self-cleaning glass ideal for large facades where cleaning is difficult



trickle vents

Conventional trickle vent



For more colour, hardware and glazing options, go to www.greenbuildingstore.co.uk

options sills/ safety/ design options/ security

options window styles

Many more styles available, please ring us on 01484 463336 to discuss

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 360mm for deep recessing into highly insulated walls



Oak timber sills for windows & doors



safety options

'Egress hinges', allowing means of escape for outward opening windows



Integrated child restrictor



window design options

Mock sliding sash

Our inward opening tilt and turn window is available in a mock sliding sash style, offering a cost-effective alternative to traditional sliding sash windows.



Mullion-free or 'floating mullion'

For aesthetic and means of escape purposes, an outward opening mullion-free casement window is also available.



security



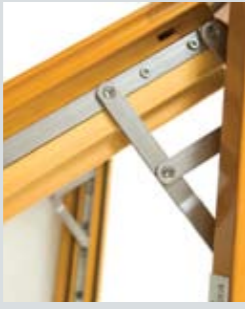

Part Q of the Building Regulations (England and Wales) is applicable to all new Building Regulation approvals from 1 October 2015. It requires proof of security for all accessible windows and doors installed into new buildings.

Secure 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 should be Part Q compliant.

Windows and doors in this 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.



W1	W2	W3	W4	W5	W6
W7	W8	W9	W10	W11	W12
W13	W14	W15	W16	W17	W18
W19	W20	W21	W22	W23	W24
W25	W26	W27	W28	W29	W30

warranties*	
Frames: 10 years	
Glazing: 10 years	
Hardware: up to 10 years	
Finishes: Paint: 10 years; Stains: 6 years	

*Subject to conditions & exclusions

Please note: we reserve the right to make changes to design and specifications of all products at any time without notice.

For more information on warranties, please call the windows department on 01484 463336 or go to: www.greenbuildingstore.co.uk

Timber

Green Building Store windows and doors are made from European redwood or fair-faced oak, laminated and finger jointed to EN 204 D4. Only FSC® 100% timber is used.



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

- Aluminium 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






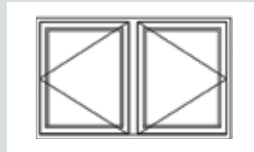


The correct installation of windows and doors is essential to ensure their optimal performance. We recommend Green Building Store's own in-house FENSA-accredited fitting service, which is available for most areas of the UK.

Members of:



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call our
**window
department**
direct on
01484 463336



Free Passivhaus technical resources

Free online resources on Passivhaus newbuild and retrofit projects are available in the **FREE RESOURCES** section of our website.

Warmer Homes

We have also developed some useful free resources on using **Passivhaus** principles to retrofitting your home, which can be found in the Warmer Homes section of our website.

Insulation & airtightness

Make your windows and doors work at their optimum with our specialist insulation and airtightness products. We can advise on the detailing around your window and door installation to ensure thermal bridging is minimised and airtightness is maximised.

Discounts available on insulation and airtightness products when you buy our windows and doors – ask us for more details.

MVHR

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.



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