**GREEN BUILDING STORE SPECIFICATION**

Environmental Construction Products Ltd

T/A Green Building Store

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**PRODUCT REFERENCE**

GBS ULTRA triple glazed doorset, inward or outward opening, single or double

**GENERAL SPECIFICATION**

**AIRTIGHTNESS**

All doorsets shall have integral draught seal(s) all round.

All doorsets shall have proof of performance by independent third party certification to BS EN 12207:2016 Class 4 600 Pa

**WEATHERPROOFING**

All doorsets shall have proof of performance by independent third party certification to exposure category in accordance with BS 6375-1:2015 not less than 1200

**TIMBER SOURCING**

All doorsets shall carry Forest Stewardship Council Chain of Custody with FSC 100% or FSC Mix certification.

**SAFETY GLAZING**

All glass shall be of the required specification to meet safety requirements in accordance with Building Regulations Approved Document K.

All glass shall be suitable to meet anticipated wind loads according to BS6262-3:2005

All glass specified as a barrier or balustrade to protect from falls shall be in accordance with the requirements of Building Regulations Approved Document K and BS6180:2011

# All glazing shall be with triple glazed, hermetically sealed units manufactured to BS EN 1279-5:2005+A2:2010 with soft coat low emissivity coatings (ε ≤ 0.05) at positions 2 & 5 as measured from the exterior, Argon fill 90% and warm edge spacers (Ψ ≤ 0.040). U value of standard glazing shall be ≤ 0.52 W/m2K and g value ≥ 50%.

**SECURITY**

All doorsets shall be high security accredited by Secured by Design *(required for Part Q compliance in England)*

**PASSIVHAUS SPECIFICATION**

The manufacturer shall demonstrate compliance with Passivhaus requirements by one of the following methods.

1. Proof of type certification by the Passivhaus Institut (PHI), Rheinstraße 44/46 64283 Darmstadt, Germany
2. Verifiable data, including thermal modelling in appropriate software and all necessary calculations, for the climate zone and location in question, to cover the following.
	1. Hygiene requirement, fRsi ≥ 0.70
	2. Comfort criterion, Ud inst. ≤ 0.85 W/m2K with reference glazing or Ud ≤ 0.80 W/m2K with reference glazing

The manufacturer shall supply suitable performance data for PHPP and data demonstrating compliance with Hygiene and Comfort requirements by one of the following routes.

1. By offering a PHI certified window, and inclusion of data in PHPP
2. By making available all thermal modelling and calculations to verify this data, or alternatively offering data verified by an appropriate third party acceptable to UK Passivhaus building certifiers.

**THIRD PARTY CERTIFICATION**

Doorsets shall be manufactured under independent UKAS approved third party certification.

**INSTALLATION**

All doorsets to be installed by FENSA registered installers.

All doorsets shall be mechanically fixed according to the manufacturer’s specification, plumb and square.

All doorsets shall be sealed to the external substrate according to the manufacturer’s specification or according to contractor’s choice, to be approved.

All doorsets shall be installed with proprietary airtightness tapes and mastics to achieve high levels of installation airtightness.

After installation all doorsets shall be checked for operation, and if necessary mechanisms shall be adjusted and lubricated prior to hand over to the client.

**COMPOSITE FRAMES**

All composite frames shall be assembled according to manufacturer’s specification and shall ensure that joints are weather and air tight.

**PROTECTION ON SITE**

All doorsets shall be stored on site according to manufacturer’s specification, and generally off the ground, fully protected from wind and rain under cover and adequately ventilated.

After installation site ambient moisture levels shall be maintained such that moisture content within frames at no times rises above 17%.

All doorsets shall be protected to avoid site damage at all times. Where plaster or other contaminants are deposited on frames they shall be removed immediately to avoid risk of site damage.

**PRODUCT STANDARD PROPERTIES**

Frame and sash depth

 98 mm

Frame and sash depth

 98 mm

Maximum sizes

 Single inward or outward 1250mm x 2400\*mm

 Double inward or outward 2400mm x 2400\*mm

\*Manual throw lock only.

Finish

 Full factory treatment and finish from Remmers Baustofftechnik

Hardware

Manual throw lock system – Winkhaus STV to include Winkhaus corner drive (Doorsets >2150 high)

Electronic throw lock system – Winkhaus AV3-E (Doorsets ≤ 2150 high)

 High security hinges – HAPS P800 3D

 Standard security hinges – BAKA 3D

Cylinder – Brisant Ultion high security 3 star

Hoppe Tokyo handles

Sills

Sill, Part M compliant – Stormguard Proline

Sill, non-Part M compliant – Stormguard Proline with Accoya subsill (standard 144 x 44)

Glazing spacers

 Swisspacer Ultimate warm edge

Glazing (where installed)

 52 mm triple glazed toughened units, 2 x soft coat low-E, Argon fill 90%

 Standard configuration 4Tgh.E-20A-4Tgh-20A-E.Tgh4 (E – low E coating; A – Argon 90%)

 Standard Ug 0.52 W/m2K

 High performance panel – plywood with vacuum insulated panel (VIP)

Thermal insulation values (fully glazed)

 Ud = 0.79 W/m2K (Redwood)

 Ud = 0.89 W/m2K (Oak)

 Ud = 0.74 W/m2K (Redwood with thermal break)

Thermal insulation values (fully panelled with high performance VIP)

 Ud = 0.50 W/m2K (Redwood with thermal break)

**PRODUCT PROPERTIES TO BE SPECIFIED**

Sash & frame material

 [ FSC 100% fair-faced engineered Oak ]

 [ FSC 100% finger-jointed engineered Redwood ]

[ FSC 100% finger-jointed engineered Redwood with thermal break ]

[ FSC Mix finger-jointed engineered Redwood with Accoya subsill]

[ FSC Mix finger-jointed engineered Redwood with thermal break and Accoya subsill]

[ FSC Mix fair-faced engineered Oak ]

Interior finish

 [ Clear ]

 [ Painted, RAL \_\_ ]

 [ Woodstain Afromosia ]

 [ Woodstain Afzelia ]

 [ Woodstain Oak ]

 [ Woodstain Pine ]

 [ As exterior ]

Exterior finish

 [ Painted, RAL \_\_ ]

 [ Woodstain Afromosia ]

 [ Woodstain Afzelia ]

 [ Woodstain Oak ]

 [ Woodstain Pine ]

Glazing

 [ Toughened ]

 [ Toughened + Laminated (inner) (middle) (outer) ]

 [ Toughened + Obscure, pattern \_\_\_ ]

 [ Toughened Self cleaning ]

 [ Toughened Solar control, g = \_\_\_ ]

 [ Toughened Acoustic ]

Glazing spacer

 [ Grey ]

 [ Black ]

 [ White ]

Gasket

 [ White ]

 [ Brown ]

 [ Beige ]

 [ Black ]

Handle colour

 [ Matt chrome ]

 [ Polished chrome ]

 [ Gold ]

 [ White ]

 [ Black ]

Hinge type

[ HAPS P800 high security]

 [ BAKA 3D standard security ]

Hinge colour

[ Matt silver ]

 [ White ]

 [ Gold ] *(BAKA only)*

 [ Bronze ] *(BAKA only)*

 [ Brown ] *(BAKA only)*

[ Nickel ] *(BAKA only)*

[ RAL \_\_\_ ] *(HAPS only)*

Cylinder type

[ Keyed ]

 [ Suited keyed alike ]

[ Thumb turn ] *(not available for SBD double doors)*

Subsill

 [ None – Part M compliant ]

 [ Accoya size \_\_\_ ] *Standard 144 x 44*

Glazing bars

 [ None ]

 [ Standard, with interstitial bars ]

 [ Old town, with interstitial bars ]

Trickle vents

 [ None ]

 [ Aluminium, 5000mm2 EA, RAL \_\_\_ ]

 [ Aluminium, 2500mm2 EA, RAL \_\_\_ ]

Security

 [ Standard ]

 [ Secure by Design ]

Accessories

 [ None ]

 [ Letterbox ]

 [ Door viewer ]

**CERTIFIED PERFORMANCE**

Performance BS6375-1,2,3 (test certificates available)

 BS EN 12207 Air permeability Class 4 600 Pa

 BS EN 12208 Water tightness Class 5A 200 Pa

 BS EN 12210 Wind loads Class C3 1200 Pa

 BS 6375-1:2009 Exposure category 1200

 BS 6375-2:2009 Pass

 PAS24:2012 Pass

**CERTIFICATION**

* Secured by Design
	+ Standard: Licence
	+ Details: Licensed products – windows, single doors, double doors, sliding doors
* CEN Solutions
	+ Standard: CMS 3165 WDG Gold
	+ Details: third party certification
* Forest Stewardship Council
	+ Standard/Certificate: SA-CoC-001435
	+ Details: FSC 100% and FSC Mix products in European Redwood and Oak
* CE Marking
	+ Declaration of Performance <http://www.greenbuildingstore.co.uk/about/ce-mark/>