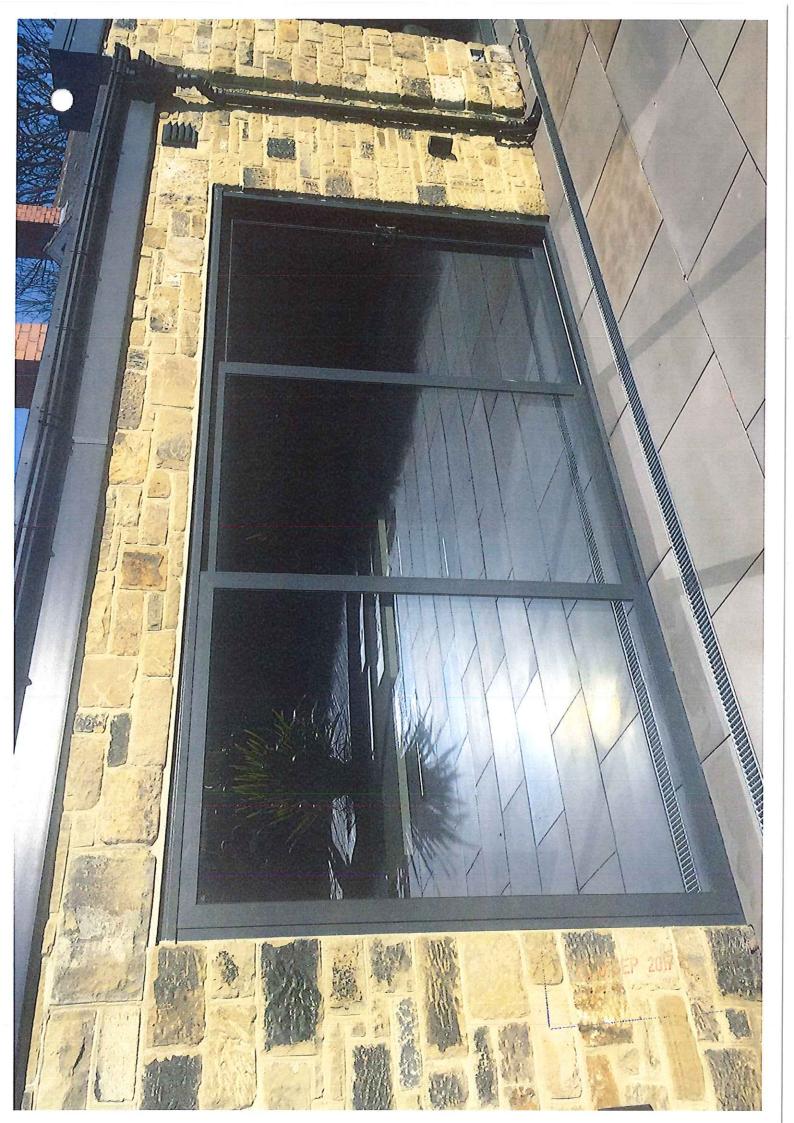
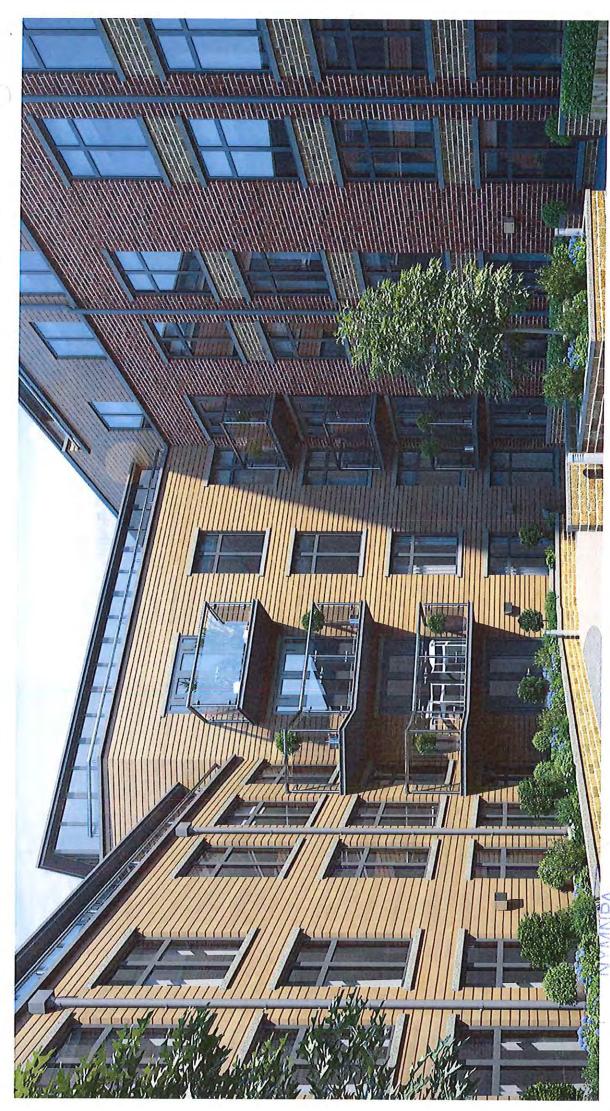






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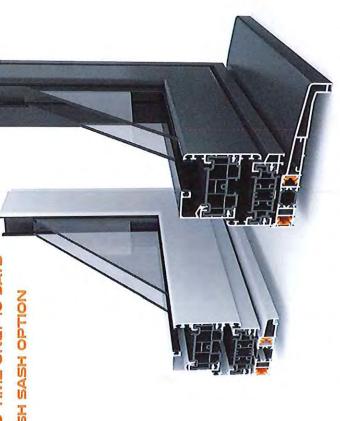




2 0 SEP 2017 technical specification - aluminium windows

# WARMCORE BENEFITS

- 1.3 U-VALUE WITH DOUBLE GLAZED UNITS
- O.8 U-VALUE WITH TRIPLE GLAZED UNITS
  - DUAL COLOUR AT NO EXTRA COST
- LEAD TIME ONLY 10 DAYS
- FLUSH SASH OPTION



unparalleled insulation. The unique, full width thermal core is key to why WarmCore windows are 25% Built around a belief that beauty doesn't have to compromise performance, WarmCore aluminium windows were created out of a desire to combine the desirability and durability of aluminium with more thermally efficient than traditional aluminium systems.

### ALUMINIUM, BUT WITH A REVOLUTIONARY THERMAL CORE AT ITS HEART

Strong and secure, WarmCore windows come with multi-point locking, internal beading and are backed by a 10 year product guarantee. Available as casement or tilt and turn windows, and with a flush sash option that brings the outer frame perfectly level with the opening part of the window - WarmCore windows are the perfect warm, stylish and secure fenestration solution.

## CASEMENT AND FLUSH

Performance and Accreditation		
U-value (double glazing) *		1.3 W/m²K
U-value (triple glazing) **		0.8 W/m²K
Energy Rating (WER / DSER) **		<b>A</b> +
Green Guide Rating ‡		4
Acoustic Performance (dB) ^	L.	Rw (C;Ctr) 37 (-2;-4) dB
Air Tightness (Pa)		Class 4
Water Tightness (Pa)		Class 6A
Wind Loading (Pa)		Class C3
Security		PAS 24
Secured By Design (SBD)		>
Configurations		
Top Hung Outward		>
Side Hung Outward		`
Side Hung Inward		>
Bottom Hung Inward		>
Fixed Light		>
Multilight		>
Tilt & Turn		×
Sash Weight and Size Limits (w $\times$ h) $\dagger$	h) †	
Top Hung Outward	35kg	1200 × 1200mm
Side Hung Outward	35kg	800 × 1500mm
Fixed Light	t	2000 × 3000mm
System Features		
System Depth	70r	70mm/79mm (flush frame)
Dual Colour Option		Yes
UMulti-Point Locking		Yes
Glazing Options		Internal
Glazing Thickness		28mm / 44mm

Bottom Hung Inward

Fixed Light Multilight Tilt & Turn

Side Hung Outward Top Hung Outward

Side Hung Inward

1.3 W/m²K 0.8 W/m²K Rw (C;Ctr) 37 (-2;-5) dB

V

¥

Energy Rating (WER / DSER) \*\*

U-value (double glazing) \* U-value (triple glazing) \*\* Acoustic Performance (dB) ^

Water Tightness (Pa)

Air Tightness (Pa)

Wind Loading (Pa)

Security

Green Guide Rating ‡

PAS 24 Class C3 Class 9A Class 4

>

Secured By Design (SBD)

× × × × >

Glazing Thickness

Glazing Options

28mm / 44mm

Internal

1000 × 2100mm

100kg

Tilt & Turn

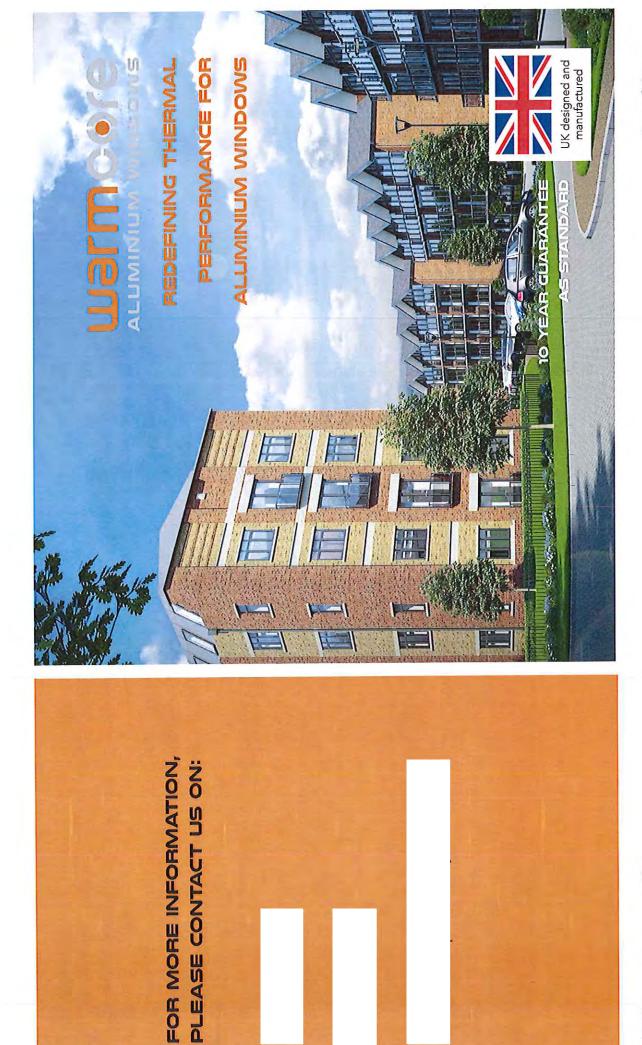
70mm

Yes Yes

Dual Colour Option Multi-Point Locking

System Depth

<sup>\* (4/20/4)</sup> Low-e 0.01 / Argon with TruPlas warm edge spacer / Clear \*\* (4/16/4/16/4) 2x Low-e 0.01 / Argon with SuperSpacer Premium warm edge spacer / Clear ‡ based on informative tables on BRE website - aluminium profile weight <1.08 kg/m ^ based on physical testing using glass unit (6.8lam/18/4) † Size limits subject to window configuration. Please ask for more details if required.





Synseal Group
Common Road | Huthwaite | Nottinghamshire | NG 6AD

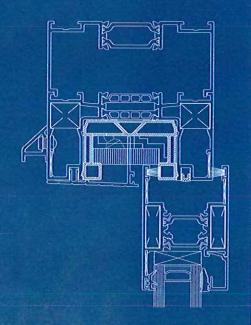


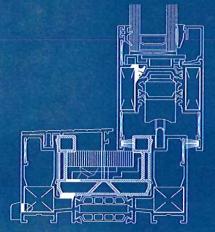


### Visoglide Plus

Visoglide Plus offers the same contemporary styling and robust performance associated with the system whilst delivering superior thermal performance.

- U Value 1.6 W/m²K
- Air Class 3, 600Pa
- Water Class 7a, 300Pa
- Wind Class AE, 2400Pa
- Inline sliding or lift & slide options
- Colour matched accessories now available speak with your supplier for details









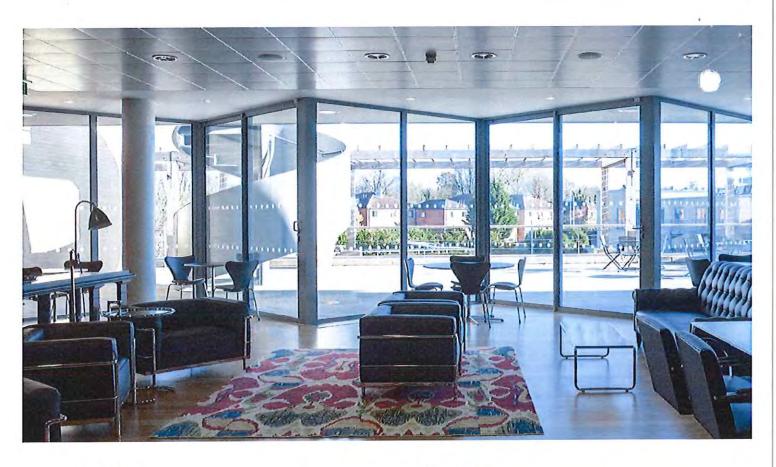












### **Project**

Said Business School

Egrove Park, Kennington Road, Oxford OX1 5NY

### **Architect**

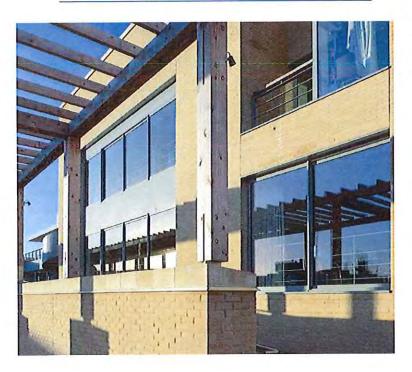
**Dixon Jones** 

2-3 Noel Road, Hanover Yard, London N1 8YA

### **Main Contractor**

**Chalegrove Properties Ltd** 

243 Knightsbridge, London, SW7 1DN



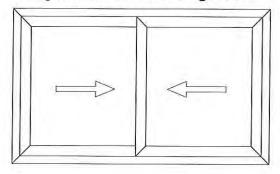
### **Summary**

The second phase of Oxford University's Saïd Business School was completed in July 2012 and officially opened in February 2013. A striking feature of the building's external façade is an 8.2 metre run of Smart Visoglide sliding doors, installed in an unusual 'zigzag' formation which makes the internal space extremely flexible, allowing easy movement to a large paved terrace.

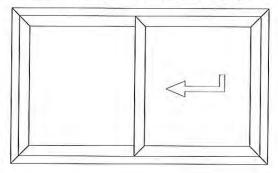
Elsewhere, Visoglide doors have also been used to add a feeling of light and space to the meeting and dining rooms, some with access to external and others to internal balcony areas. Continuing the design theme, the Visoline casement and tilt & turn windows and single and Smart Wall double doors were installed where possible without mullions or transoms to accentuate the systems' slim lines. Finally an imposing Smart Wall double door leads students, staff and visitors from the building's reception area to a central staircase and the impressive facilities beyond.

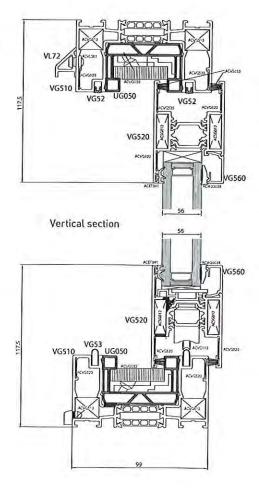
### **Examples of Typical Sections**

### visoglide Plus Inline Sliding Door

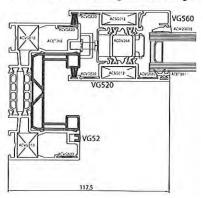


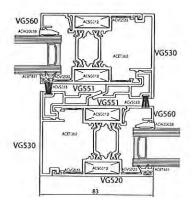
### Visoglide Plus Lift and Slide Door

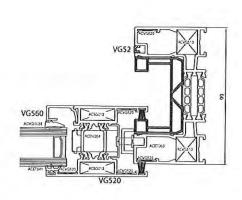




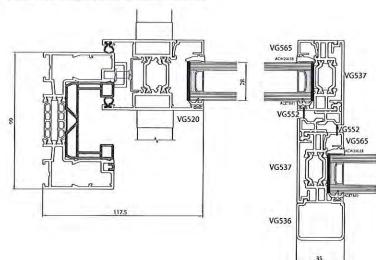
Horizontal section through inline sliding door







Horizontal section through lift and slide door



Slimline mullion option for inline and lift and slide door

2 0 SEP 2017

### Visoglide Plus

This adaptable system is suitable for use as either sliding commercial entrances where large opening apertures are required, or as dynamic residential sliding doors that maximise light and give stunning unimpeded views.

Visoglide Plus profiles have been designed to improve both strength and weather resistance. All main sections feature an extended polyamide thermal break that allows Visoglide Plus to achieve a U Value of 1.6 W/m2K when installed with a suitable sealed unit.

Visoglide Plus doors are available in both single and dual colour Smart's unique Sensations range of textured colours.

The system is also suitable for use with auto slide opening mechanisms\*.

### **Technical Performance**

U Value

1.6 W/m2K (When using a 1.0 W/m2K centre pane)

Air

Class 3, 600Pa

Water

Class 7a, 300Pa

Wind

Class AE, 2400Pa

Glass

up to 38mm

**Dual Colour** 

Yes

Security

Multipoint locking

### **Dimensions**

Frame Width

53mm

Frame Depth

100mm

Max Sash Weight

80kg

Glass

38mm double or triple glazed sealed units

### **Design Limitations**

Max Sash Weight

200kg

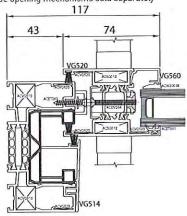
Max Sash Height

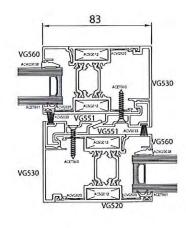
2500mm

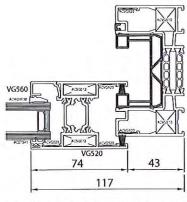
Max Sash Width

Within above limitations

\*Auto slide opening mechanisms sold separately







### **Smart Systems Limited**

Arnolds Way | Yatton | Bristol | North Somerset | BS49 4QN | UK











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