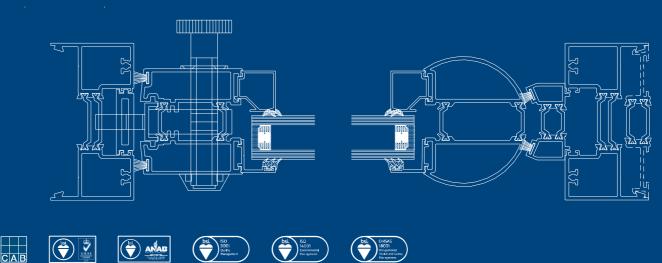




Smart Wall

Smart Wall is a thermal shop front screen and door system suitable for all types of ground floor treatment where enhanced thermal performance is required. The system is ideal for use in schools, colleges and other educational buildings.

- U Value 1.8 W/mk for Smart Wall Doors
- U Value 1.4W/m²K for Smart Wall Screens
- LPS 1175 Level 2Enhanced Security Performance
- BS EN 627 Level 3Enhanced Security Performance
- BS 6375 Part 12009 Weather rated, anti-finger trap doors
- PAS 24:2012 Scurity rated doors







Project

ss Great Britain Visitor Centre Great Western Dockyard, Gas Ferry Road, Bristol

Architect

Stride Treglown Promenade House, Clifton Down, Bristol BS8 3NE

Main Contractor

Linden Homes 86 Kingskerswell Road, Newton Abbot, Devon



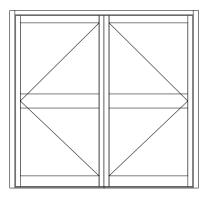
Summary

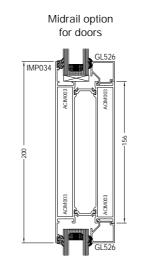
This high profile project, which was completed in 2010, was part new-build and part refurbishment, with the scheme ultimately delivering a new visitor centre and museum on the site as well as 145 apartments. The new building was designed to reflect Brunel's original Steam Engine Factory that was built in the 1830s, with the brickwork and window and door detailing echoing its original features.

A combination of some 600 Smart Visoline tilt & turn and casement windows and Visoline doors, was installed in the building, with the window combination design producing the look of 'dummy doors' on the building's balconies. The front elevation also appears to feature arch-headed windows, although these are actually squareheaded on the inside, with feature panels on the external face forming the arch. Internally, the building's walkways feature narrow window 'strips' in the kitchens of the apartments, allowing light and air into rooms, without compromising privacy.

Examples of Typical Sections

Smart Wall – Double Rebated Door with Anti-Finger Trap

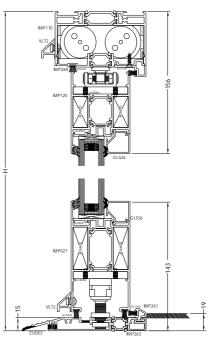




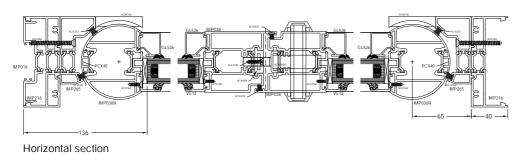
VL64

IMP034

VL64



Vertical section



Smart Wall – Double Door with Anti-Finger Trap

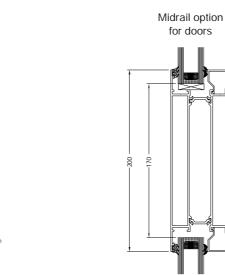
IMP410

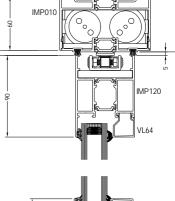
Shown in heritage style window

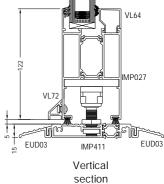
Bolstered mullions for

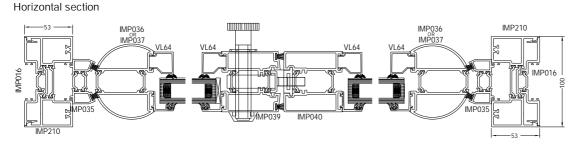
taller entarances

IMP310









Smart Wall

Smart Wall has recently been successfully tested to LPS 1175 level 2 and BS EN 1627 Level 3 for enhanced security performance making the door one of the best performing fully thermally broken screen and entrance doors available in the UK. Screen work is either beaded or pocket glazed. Smart Wall doors are weather rated to BS 6375 and are available with anti-finger trap door sections and drainable low thresholds. All profiles feature polyamide barriers to maximise thermal performance and can be internally or externally glazed. Unlike non-thermal alternatives, Smart Wall is available in dual colour from an extensive range of standard and non-standard finishes. Smart Wall complies with the latest requirements of Document L for thermal transmittance.



24-32mm double or triple glazed

Enhanced Security Performance

Enhanced Security Performance

Security Performance

Weather Performance

sealed units

Features

- · Fully rebated swing door with anti-finger trap
- · Thermally broken, heavy duty doors & screens
- 30kg Dynamic impact test
- 6kN Static load test
- Security grade 6 locking mechanism
- · Locking bolt withstands 10kN side load
- Polyamide thermal break
- Achieves U value 1.8W/m²K
- Internally beaded sash
- Anti-finger trap
- Thermally broken low threshold

Application

Dimensions Frame Width

Frame Depth

Max Sash Height

Max Sash Width

Max Sash Weight

• Swing, hinged & automatic commercial entrance doors and ground floor treatment

Finish

Polyester powder coat to marine quality as standard

53mm

100mm

2500mm

1150mm

80kg

Technical Performance

U Value	1.8 W/m ² K for Smart Wall Doors	
	U Value 1.4W/m ² K for Smart Wall Screens	
	Rebated Door	Screen Work
Air	Class 2, 300Pa Class 4, 600Pa	
Water	Class 7a, 150Pa	Class 9a, 600Pa
Wind	Class A5, 2000Pa	Class A4, 1600Pa
Document L Compli	ant	

Glass

Test Certification

LPS 1175 Level 2

BS EN 1627 Level 3

BS 6375 Part 1: 2009

PAS 24: 2012

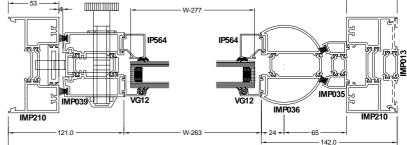


Rebated Door



Screen Work

lue Document L Air Water Wind



Smart Systems Limited

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