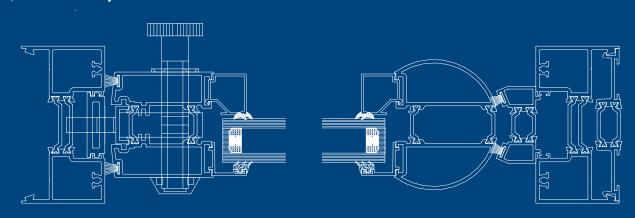




Smart Wall

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/m²K for Smart Wall Doors
- U Value 1.4W/m²K for Smart Wall Screens
- LPS 1175 Level 2; Enhanced Security Performance
- BS EN 1627 Level 3; Enhanced Security Performance
- BS 6375 Part 1: 2009 Weather rated, anti-finger trap doors
- PAS 24:2012 Security 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



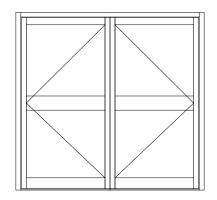
Summary

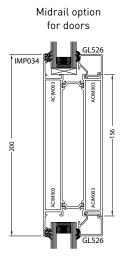
This high profile project, which was completed in 2010, was part new-build and part refurbishment, with the scheme ultimately delivering a new visitor centre and museum on the site as well as 145 apartments. The new building was designed to reflect Brunel's original Steam Engine Factory that was built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

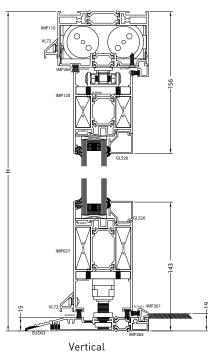
A combination of some 600 Smart Visoline tilt & turn and casement windows and Visoline doors, was installed in the building, with the window combination design producing the look of 'dummy doors' on the building's balconies. The front elevation also appears to feature arch-headed windows, although these are actually square-headed 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







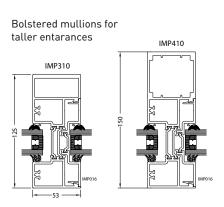
section

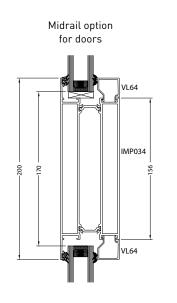
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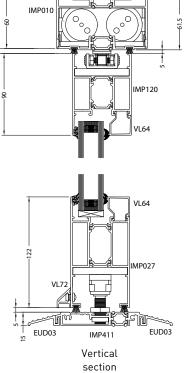
Smart Wall – Double Door with Anti-Finger Trap

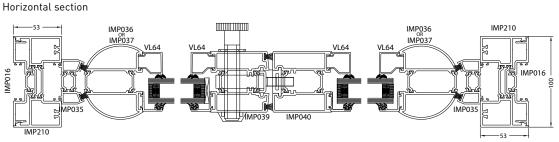
Shown in heritage style window

Horizontal section









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.



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

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

Finish

Polyester powder coat to marine quality as standard

Technical Performance

U Value 1.8 W/m²K for Smart Wall Doors

U Value 1.4W/m²K for Smart Wall Screens

Screen Work Rebated Door Class 2, 300Pa Class 4, 600Pa Air Class 7a, 150Pa Water Class 9a, 600Pa Wind Class A5, 2000Pa Class A4, 1600Pa

Document L Compliant

Dimensions

Frame Width 53mm Frame Depth 100mm Max Sash Height 2500mm Max Sash Width 1150mm Max Sash Weight 80kg

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IMS130SMW.201410

Glass 24-32mm double or triple glazed

sealed units

Test Certification

LPS 1175 Level 2 **Enhanced Security Performance** BS EN 1627 Level 3 Enhanced Security Performance

PAS 24: 2012 Security Performance BS 6375 Part 1: 2009 Weather Performance







Screen Work









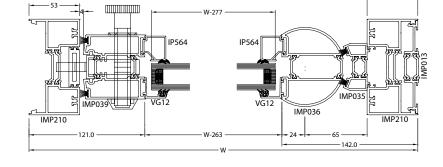












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