

Technical information

# SPW501 thermally broken screening and door system



SENIOR **ALUMINIUM** SYSTEMS™

## Scope

The SPW501 system has been designed to provide a high performance commercial door and framing solution capable of being manufactured in single, double, and emergency door types and utilising low thresholds and a variety of options such as radius anti-finger trap stiles. It is a thermally broken polyamide framing system, capable of accepting glazing up to 28mm thick depending on weight.

## Materials

- All aluminium sections are extruded using Aluminium Alloy 6060 or 6063 T6 to BS EN 755 part 9 2008.
- Polyamide thermal barriers are manufactured in accordance with PA66 GF25.
- Gaskets are manufactured in accordance with BS3734.

## Finishes

SPW501 framing sections are available typically in 3 finishes.

- Polyester Powder Coating to BS EN 12206: 2004 Part 1 - painted in house in single or dual colour and surface finish at 40 microns standard, or enhanced to 60 microns for marine environments, in accordance with ISO9001, ISO14001 and ISO18001.
- Anodised and Anolok finishes are to BS3897: 1991 to a minimum of 25 microns (AA25), supplied in either satin or polished finish in a limited range of colours.
- Mill finish.

## Construction

SPW501 is constructed with square cut components, mechanically jointed using self tapping screws into special cleats, and torsion bars are used for compressive strength. A proprietary sealant is used on all metal joints in line with good practice.

Automation solutions are also available.

## Weather Rating

Differing door configurations produce different ratings. Please consult our technical department.

## Typical\* sizes

|             | Width (mm) |   | Height (mm) |
|-------------|------------|---|-------------|
| Single Door | 1150       | x | 2490        |
| Double Door | 2390       | x | 2490        |

\*For guidance only - when exceeded please consult our technical department.

## Glazing

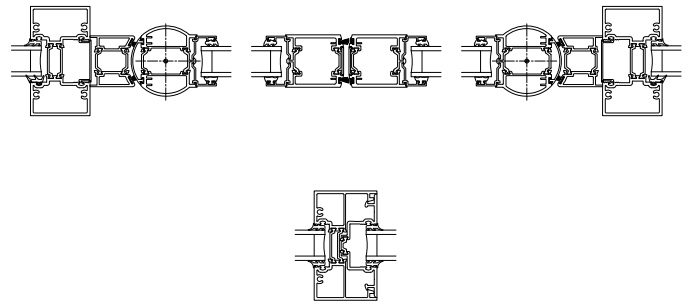
|           |      |
|-----------|------|
| Thickness | 28mm |
|-----------|------|

## Average U values (door) -

|               | Single                 | Double                 |
|---------------|------------------------|------------------------|
| Fully glazed  | 2.12W/m <sup>2</sup> K | 2.10W/m <sup>2</sup> K |
| With mid rail | 2.22W/m <sup>2</sup> K | 2.21W/m <sup>2</sup> K |

## Security

PAS24, for both single and double doors, please refer to the technical manual for security hardware requirements.



## Environmental

Senior Architectural Systems is fully compliant with BS EN ISO 9001, BS EN ISO 14001 and OHSAS 18001 Standards.

SPW501 when used on projects involved in a BREEAM assessment, or within the Code for a Sustainable Built Environment and the Code for Sustainable Homes (which therefore involves the Green Guide to specification) can offer significant benefits. For project specific assistance, please contact our specification team.

**Specification. Please contact our national team of architectural advisors for advice on product suitability, calculations and NBS or bespoke specifications.**