

Technical information

SPW600/e tilt/turn window system



SENIOR **ALUMINIUM** SYSTEMS™

Scope

The SPW600 and SPW600e tilt/turn window has been designed to meet current building regulations. This a three chamber 75mm polyamide window system that achieves impressive thermal performance. It is capable of accepting glazing up to 56mm thick depending on weight.

SPW600e

This system is an evolution of SPW600 and has been further improved by the introduction of polystyrene and backer rod inserts. A wide range of sections and ironmongery allows the window system to be versatile and used in a wide range of applications.

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

SPW600 and SPW600e tilt / turn window 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

Both SPW600 and SPW600e are constructed using mitred corners, joined with crimped or mechanical cleats; alignment chevrons assist in clean, accurate mitres. Integral transoms and mullions are scribed around the outer frames and fixed with either screw ports or shear blocks. A proprietary sealant is used on all metal joints in line with good practice. Opening window frames are designed to be inserted into outer frames using butt hinges or tilt and turn mechanism.

Weather Rating

BS6375 Part 1

Air Permeability	600 Pa / Class C
Water Tightness	600 Pa
Wind Resistance	2400 Pa

Typical* sizes

Maximum Sizes	Width (mm)		Height (mm)
Tilt/Turn	1500	x	1500
Tilt/Turn Heavy Duty	1500	x	2200

Minimum Sizes	Width (mm)		Height (mm)
Tilt/Turn	450	x	500

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

Glazing

Thickness	26mm	to	56mm
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Average U values

SPW600

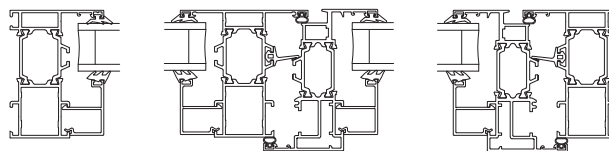
	1200 x 1200	1500 x 1500
Vent	1.67W/m ² K	1.59W/m ² K
Fixed	1.49W/m ² K	1.44W/m ² K

SPW600e

	1200 x 1200	1500 x 1500
Vent	1.57W/m ² K	1.49W/m ² K
Fixed	1.39W/m ² K	1.34W/m ² K

Security

Tested to BS7950, security hardware required



Environmental

Senior Architectural Systems is fully compliant with BS EN ISO19001, BS EN ISO 14001 and OHSAS 18001 Standards.

SPW600 and SPW600e 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.

SPW600 and SPW600e are capable of achieving a BFRC energy rating of A, B & C. 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.