



Technical information

Ali FOLD single/double door system



SENIOR **ALUMINIUM** SYSTEMS™

Scope

The Ali FOLD single/double door system has been designed to meet current and future building regulation, with impressive U values and thermal performances. Ali FOLD is an evolved generation of aluminium door systems manufactured in the UK. They combine the long life and low maintenance of powder coated aluminium externally with a polyamide high performance thermal barrier. Ali FOLD single/double doors are capable of accepting glazing up to 48mm thick depending on weight.

Materials

- All aluminium sections are extruded using Aluminium Alloy 6060 or 6063 T6 to BS EN 755 part 9 2008 or BS EN 12020-2.
- Polyamide thermal barriers are manufactured in accordance with PA66 GF25.
- Gaskets are manufactured in accordance with BS3734.

Finishes

Ali FOLD single/double door sections are available typically in two finishes.

- Polyester Powder Coating to BS EN 12206:2004 Part 1 – painted in house. Surface finish at 40 microns standard, or enhanced to 60 microns for marine environments, in accordance with ISO 9001, ISO 14001 and ISO 18001.
- Anodised 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.

Construction

Ali FOLD is constructed using mitred corners, joined with crimped or mechanical cleats; alignment chevrons assist in clean, accurate mitres.

A proprietary sealant is used on all metal joints in line with good practice.

Environmental

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

Ali FOLD, 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.

Weather Rating

Tested to BS6375-1, BS6375-2 and BS6375-3 Annex A

Typical* sizes

Max Door Leaf Width	1000mm
Max Door Leaf Height	2616mm
Max Single Door Width	1130mm
Max Double Door Width	2162mm
Max Outerframe Height	2700mm
Max Weight Per Door Leaf	100Kg

*For guidance only – when exceeded please consult our technical department

Glazing

Thickness	28mm - 48mm
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For thicker options please consult our technical department

Single door - average U values

CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.73 W/m ² K
48mm Triple Glazed Unit	1.31 W/m ² K

CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.71 W/m ² K
48mm Triple Glazed Unit	1.29 W/m ² K

For glazing specification please contact our technical department

Double door - average U values

CEN standard - Standard	2000 x 2180mm
28mm Double Glazed Unit	1.79 W/m ² K
48mm Triple Glazed Unit	1.34 W/m ² K

CEN standard - Thermally Enhanced	2000 x 2180mm
28mm Double Glazed Unit	1.76 W/m ² K
48mm Triple Glazed Unit	1.32 W/m ² K

For glazing specification please contact our technical department

Security

Security tested to PAS24: 2012, security hardware required. Q-Mark fully certified.

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