

Technical information

Hybrid series 1 composite lift/slide entrance door system



SENIOR **HYBRID** SYSTEMS™

Scope

Hybrid Lift and Slide doors have been designed to meet current and future building regulations, with impressive U values and thermal performances. Hybrid is a high insulation timber/aluminium composite system manufactured in the UK, complete with a selection of window, curtain walling and door options. It combines the long life and low maintenance of aluminium externally with the high insulation, environmentally focused benefits of responsibly sourced engineered timber internally. Glazing up to 36mm dependant 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.
- Timber profiles are certified by MPA Stuttgart with quality class BS1100, laminated according to DIN1502 using weather proof and heat proof melamine glue; humidity 12% +/-2%; only lamellas without fault are laminated. Finger joints in outer layer min 500mm centres. PEFC /04-32-0042 certified. Timber profiles are matt lacquered 150-300 microns wet film thickness.

Finishes

Hybrid door sections are available typically in 4 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 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.
- Clear lacquered or painted timber

Construction

Hybrid Lift & Slide Doors are constructed using straight cut joints secured with mechanical fixings. A proprietary sealant to protect against water entry should be used on all metal-to-metal joints at assembly. Timber mainframe sections are square cut using a unique mechanical jointing system. Opening doors are design to be inserted directly into the outer frame and seated within the track system. Glazing is double glazing 28mm standard with an option for 32mm and 36mm.

Weather Rating

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

Maximum* sizes

	Width (mm)		Height (mm)
Outer frame	6000	x	2400

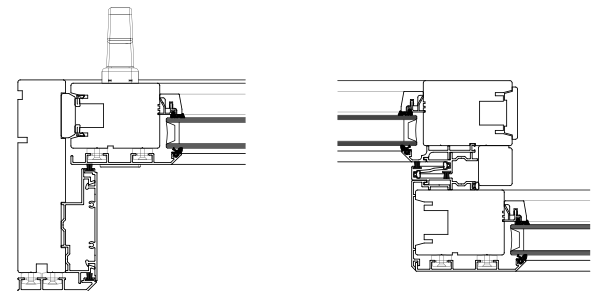
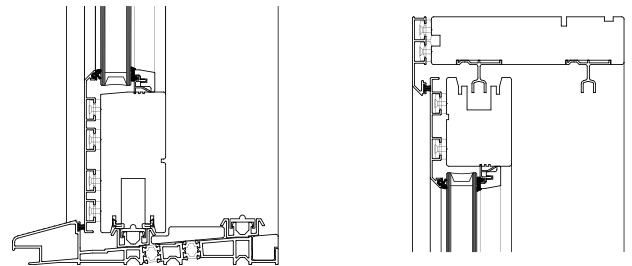
*Weight limit up to 250kgs per leaf
*For guidance only - when exceeded please consult our technical department.

Glazing

Thickness	28mm	to	36mm
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Average U values

Two track (2.4m high x 2.4m wide)	1.45W/m ² K
Three track (2.4m high x 3.6m wide)	1.51W/m ² K



Environmental

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

Hybrid 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.