**Smart Systems ltd- Tel 01934 876100**

l20 doors/shutters/hatches

280 doors

Alitherm Heritage Door – PAS24-2016 Profile Option

**BSI Kitemarked to PAS24. KM530838**

Alitherm Heritage is designed for use as Single or French doors (not heavy duty) that are internally beaded. The system is suitable for applications such as listed building renovations or where a more traditional steel-look is required but with optimum thermal performance. Door leaves are hung on slimline butt hinges and incorporate a multi-point locking system with latch and deadbolt. Operation is via a lift-lever handle and deadlocked via a euro profile cylinder.

Internal beads and gaskets will accommodate 24 & 28mm units.

Thermal breaks are formed with polyamide strips PA 6.6 25 reinforced with glass fibre, fitted between aluminium extrusions. All profiles are extruded from aluminium alloy 6060/6063 T5/T6 and comply with the recommendations of BS EN 12020-2; 2001/BS 755-9: 2001. Profiles can be Electrostatic powder coat finished in a range of RAL colours to APA Qualicoat guidelines with the option of Bi-colour, different internal and external colours. Other finishes include anodised in satin with EWAA/EURAS-Qualanod quality label.

Doors are manufactured according to customer requirements from a range of standard profiles and can include astragal glazing bars in 20, 25 and 41mm widths. It is advisable to contact Smart Systems technical design department early in the design process.

**Manufacturer:** Smart Systems Ltd. Arnolds Way, Yatton, North Somerset BS49 4QN.  
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**Product reference**: Alitherm Heritage Doors – PAS24-2016 Profile Options.

**Materials**: All profiles are extruded from aluminium alloy 6060/6063 T5/T6 and comply with the recommendations of BS EN 12020-2; 2001/BS 755-9: 2001. Thermal breaks are formed with polyamide strips PA 6.6 25 reinforced with glass fibre sections capable of withstanding temperatures up to 200°C for over painting.

**Performance**: Fully rebated Frames -  
Air Permeability - Class 4 600Pa -Open in and Out.  
Watertightness – Class 8A 450Pa (O-Out). Class 3A 100Pa (O-In)  
Wind resistance – Class 3A – 1200Pa.

**Parameters**: Doors are manufactured to the required design to within the following maximum limitations (subject to location).  
Max Sash width 900mm.Max Sash height 2100mm.  
MaxSash weight 60kgs.

**Exposure**: Design Wind Pressure **TBA**

**Thermal**: All doors, in conjunction with a suitable glazing specification, to achieve an average project U-value to meet the current requirements of the approved Building Regulation Document L1/L2 for England and Wales. Target window U-value **TBA.**

**Construction**: All doors shall be manufactured, installed and glazed in strict accordance with Smart Systems instructions and guidelines as set down in the appropriate technical literature, details and specifications. Depth of outer frame sections shall be 47mm stepped internally to 52mm incorporating two 22mm polyamide thermal break sections within the window profiles. All outer frame and vent members to be 45° mitred corner construction, reinforced by means of extruded aluminium cleats and stainless steel corner braces. All corner joints to be secured by gluing & crimping. All mullions and transoms are to be cut/shaped and secured using either stainless steel screws driven into integral screw ports within the sections or special T cleats. All joints are to be sealed during construction using suitable ‘small gap’ sealant. The doors to incorporate an internal pressure equalized drainage system with concealed down drainage through a sub sill or frontal drainage with snap on cover caps.

**Finish as Delivered:** Internal Colour: **TBA** External Colour: **TBA**

**Glazing details**: Glazing shall be site glazed as section L40. Doors shall be double glazed and internally beaded. Unit thickness - Overall thickness of 24 or 28mm. All doors to be dry glazed using shuffle extruded aluminium beads and EPDM extruded gaskets.

**Ironmongery / Accessories: (Additional) TBC**

**Fixing**: All fixings to be in strict accordance with the relevant British Standards, including BS 6262 and BS8213 Part 4: 2007. Ensure the door is retained securely within the opening without incurring any damage or distortion to the door frame. Generally, fixings to be positioned 150mm from each corner and 100mm from each mullion/transom and at centres not exceeding 600mm. Fixing lugs/straps only to be used where they can be suitably concealed to approval. All fixing of doors to the supporting structure to be achieved using a suitable lug and/or frame anchor fixing method capable of accommodating all applicable loads, deflection, tolerances and expansion expected on site.  
Details of the proposed fixing method shall be submitted to the project engineer for approval prior to installation.