**Smart Systems LTD – TEL 01934 876100**

H11 CURTAIN WALLING

110 CURTAIN WALLING

Aliver Glazed Roof

A Roof system with thermal break to build roof domes and conservatories with a large span.

A clamping strip is coupled to the mullions with an extruded connecting bar, which also forms a thermal break in the curtain wall. The clamping strip is manufactured with a co-extrusion of hard plastic as a basis and a softer plastic material for sealing, the completed construction is finished with coloured extruded aluminium external cappings.

Thermal breaks to transoms 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/BS 755-9. 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. Powder-coated woodstructure finishes are available on request.

The units are designed to accept up to 30mm double-glazing.

Consult Smart Systems Ltd technical literature for details. Smart Systems Ltd can also provide design and specification guidance and it is recommended that they are consulted early in the design process.

**Aluminium Roofing system: Manufacturer**: Smart Systems Ltd. Arnolds Way, Yatton, North Somerset BS49 4QN  
Tel: 01934 876100.   
Email: [sales@smartsystems.co.uk](mailto:sales@smartsystems.co.uk). Web: [www.smartsystems.co.uk](http://www.smartsystems.co.uk)

**Product reference:** Aliver Roof system. (Aliver1000 to 5000 Plus)

**Type:** Pressure PlateStick System

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

**Thermal**: All Roofing bars, 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**

**Structure:** All structural profiles to be designed so as the maximum deflection of any glass edge into a framing member under wind load shall not exceed L/175 of its span with no evidence of any permanent deformation once the load has been removed.

**Construction:** All screens 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.

The system to be thermally broken throughout by means of a continuous thermal isolator located between the pressure plates and all structural members.

Consult with Smart Systems for recommendations and details of options available.

**Fixings:**. Details of the proposed fixing method shall be submitted to the project engineer for approval prior to installation.

**Material:** All profiles are extruded from aluminium alloy 6060/6063 T5/T6 and comply with the recommendations of BS EN 12020 -2/BS 755-9. 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. Co-extruded profiles and EPDM seals are tested in accordance with DIN 7863, TV 110, NFP 85301 and ISO 3994.

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

**Cover cap colour:** Consult with Smart Systems technical department for options.

**Glazing:** Unit thickness. Up to 30 mm.

**Glazing system:** Dry glazed using proprietary, high performance captive gaskets. All glazing units to be supported continuously along all four edges by a structural member and held firmly in position by means of a screw fixed pressure plate with a snap on face cap. All gaskets to be bonded and sealed during construction, using a suitable waterproof adhesive, to ensure a watertight joint at all connections.

**Panel/ facing type:** Consult with Smart Systems technical department for recommendations and details.

**Accessories:** All aluminium flashings, sills and other perimeter trims necessary to ensure the performance of the glazing system shall be the responsibility of the glazing sub- contractor and shall be designed, fabricated, finished, install, secured and sealed in accordance with Smart Systems instructions and guidelines as detailed in their technical literature. No additional Ironmongery or Accessories required.

**Incorporated components:** The full range of Smart Systems Ltd windows and doors can be incorporated into the system. Consult with Smart Systems for recommendations and details.