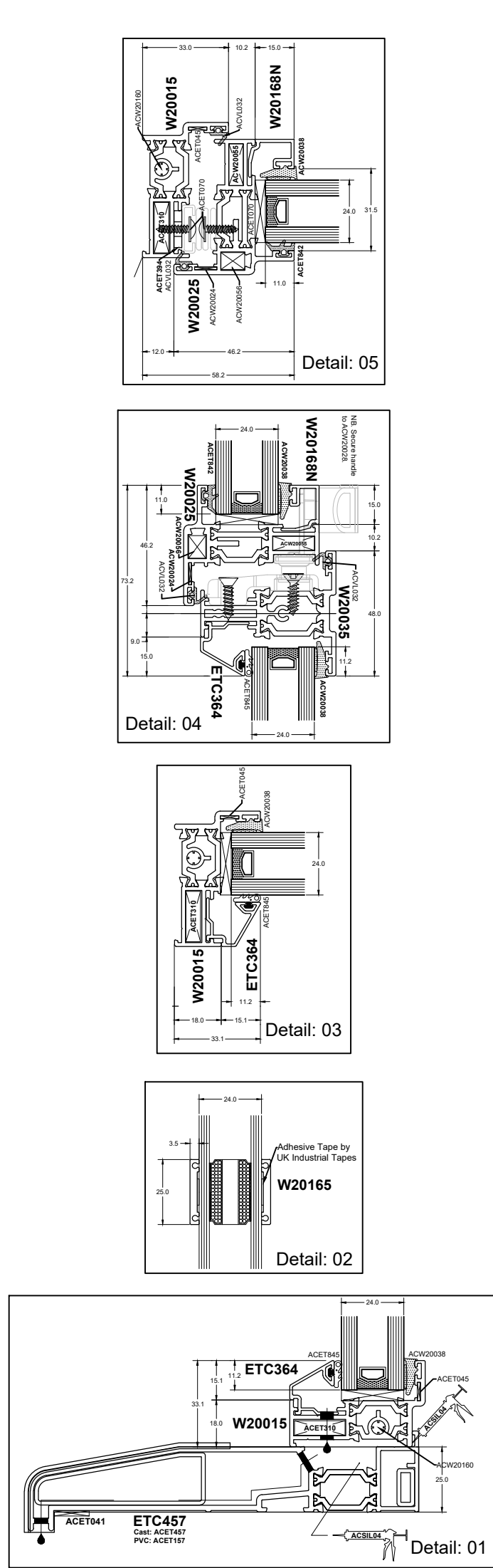
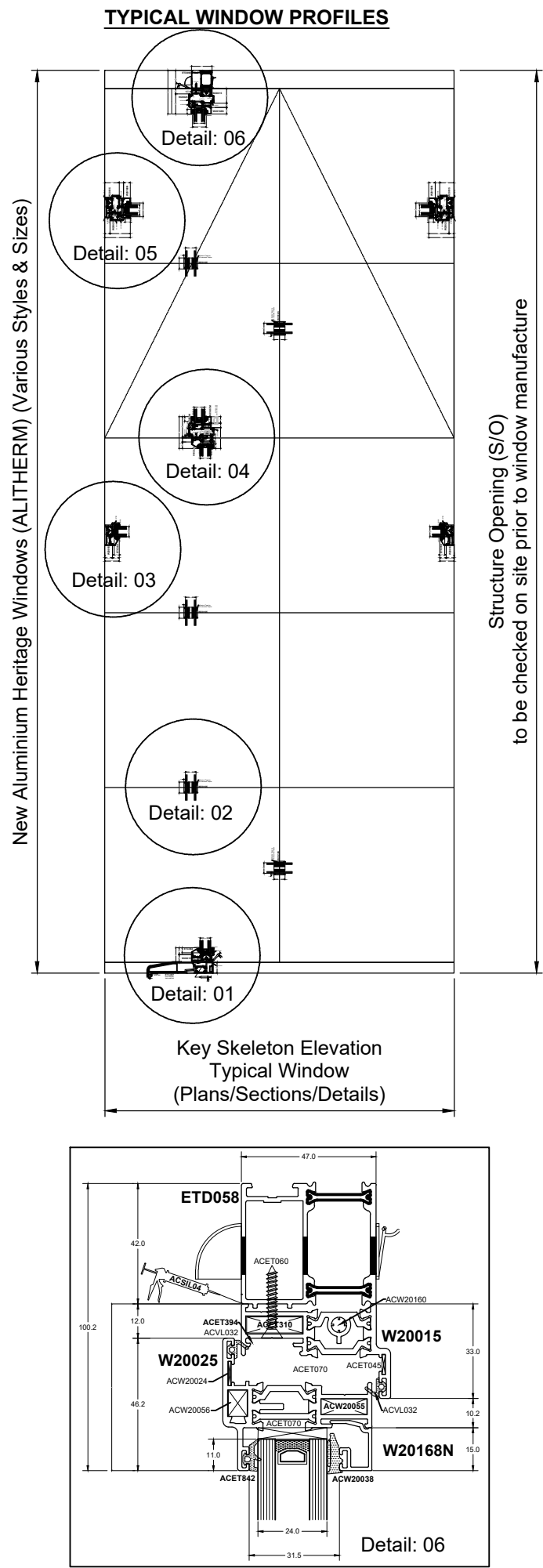


✳️ **New Aluminium Heritage Windows (ALITHERM) (Various Styles & Sizes)**
(Scale 1:2)

- Alltherm Heritage provides the ideal solution for heritage applications such as listed building renovations and large scale replica-refurbishment projects where planning constraints are to be considered.
- The Alltherm Heritage window is designed to be built as a series of horizontal modules which can be stacked using horizontal couplers to form a multi-part window featuring a specially design drip bar between modules.
- BSI Kitemarked to PAS24: 2022- KM81580
- Alltherm Heritage is designed for use as fixed light, open-out and open-in windows, internally and externally beaded, for domestic and light commercial applications.
- Heritage HD open-out casements only.
- All opening vents are hung on concealed stainless steel variable angle friction stays and fitted with cockspur/espagnolette locking mechanisms.
- Open- in utilizes Tilt-Turn hardware or butt hinges.
- Internal beads and gaskets will accommodate 24, 28, 32 & 36mm units.
- Heritage HD 24, 28,32 and 42mm.
- 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/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.
- Windows are manufactured according to customer requirements from a range of standard profiles and are designed to incorporate a range of vent openings and various options, therefore it is advisable to contact Smart Systems technical design department early in the design process.
- Product reference: Alltherm Heritage Windows
- Materials: 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.
- Performance: Product tested to BS6375: Part 1.
- Air Permeability Class 4 600Pa (Tilt-Turn -Class 4 600Pa)
- Watertightness Class 9A 600Pa (Tilt-Turn -Class 9A 600Pa)
- Wind resistance Class AE 2400Pa (Tilt-Turn -Class BE2400)
- Parameters: Windows are manufactured to the required design to within the following maximum limitations (subject to location).
- Side opening - Max width 600 or 865mm with correct hinge*. Heritage HD 838mm.
- Max height 1400mm. Heritage HD 1750mm (subject to max weight).
- Top Opening - Max height 1300mm. Heritage HD 2500mm (subject to weight & lyy check).
- Max width 1400mm*.
- Heritage HD 1750mm (subject to weight and lyy check).
- *Weight limit dependent upon hinge selection and lyy check.
- Subject to agreement it may be possible to exceed these limitations depending on design criteria, contact Smart Systems Technical Department for details.
- Exposure: Design Wind Pressure 941pa (RG1 2DG)
- Thermal: All windows, 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 1.5W/m²K.
- Target window u value based on a double-glazed unit having a centre pane u value of 1.0W/m²K and including a suitable warm edge spacer such as Thermobar or equivalent.

- Or
- WER band B
- Target window/door u value based on a double-glazed unit having a centre pane u value of 1.2W/m²K with a g value of 0.73.
- Unit to including a suitable warm edge spacer such as Thermobar or equivalent.
- Construction: All windows 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.
 - Heritage HD frame depths are 52 & 70mm (not stepped).
 - 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 windows 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: To match existing.
 - External Colour: To match existing.
 - Glazing details: Glazing shall be site glazed as section L40.
 - Windows shall be double glazed and internally or externally beaded.
 - Unit thickness - Overall thickness of 24, 28, 32 & 36mm.
 - Heritage HD 24, 28, 32 and 42mm.
 - All windows to be dry glazed using shuffle extruded aluminium beads and EPDM extruded gaskets.
 - With EPDM gaskets.
 - Ironmongery/Accessories: window restrictors to be inconjunction with manufactures written guidance.
 - 25mm/41mm astragal bars, applied using correct products and procedures set by UK Industrial Tapes.
 - Fixing: All fixings to be in strict accordance with the relevant British Standards, including BS 6262 and BS8213 Part 4.
 - Ensure the window is retained securely within the opening without incurring any damage or distortion to the window 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 windows 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.

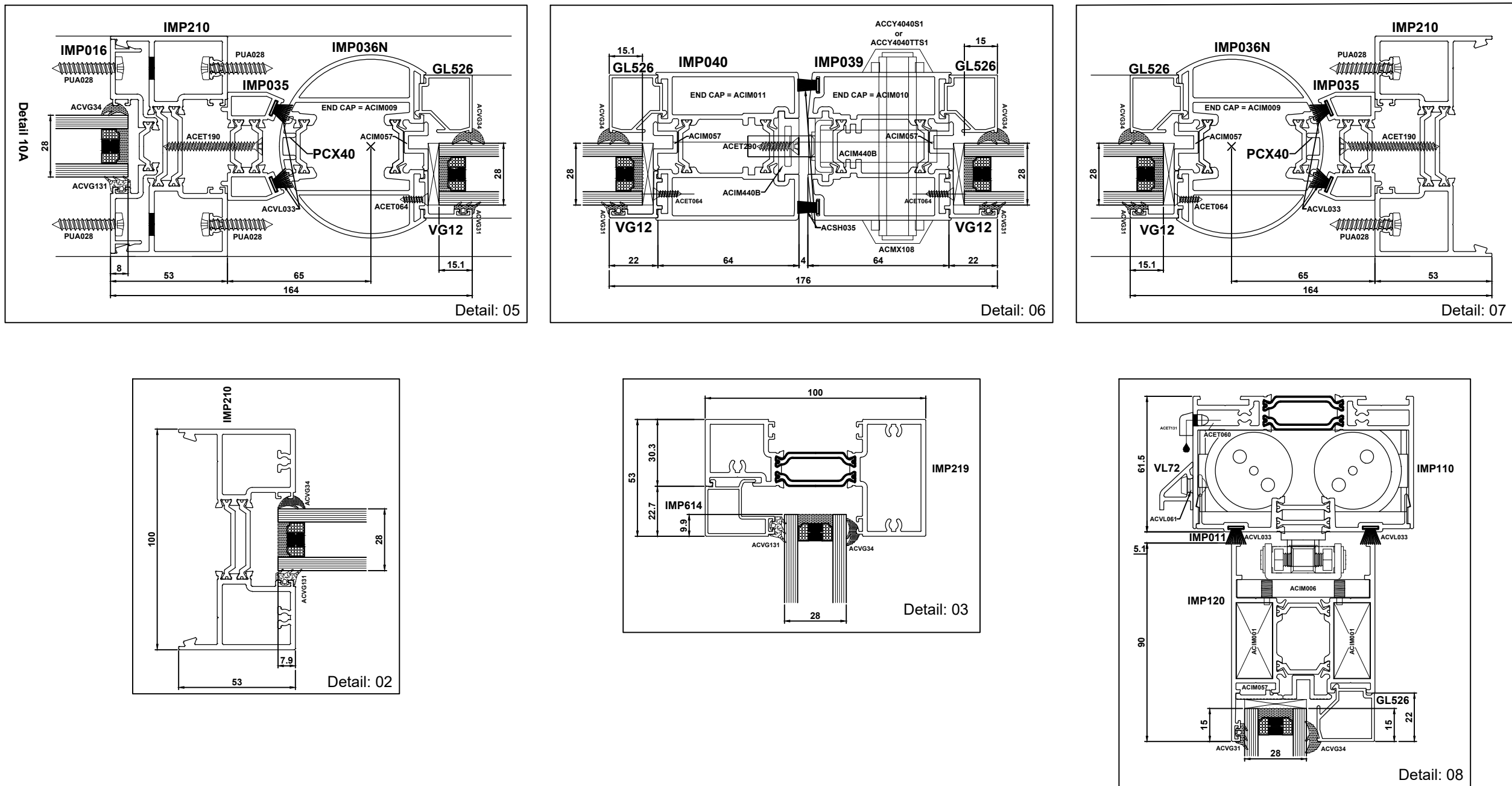
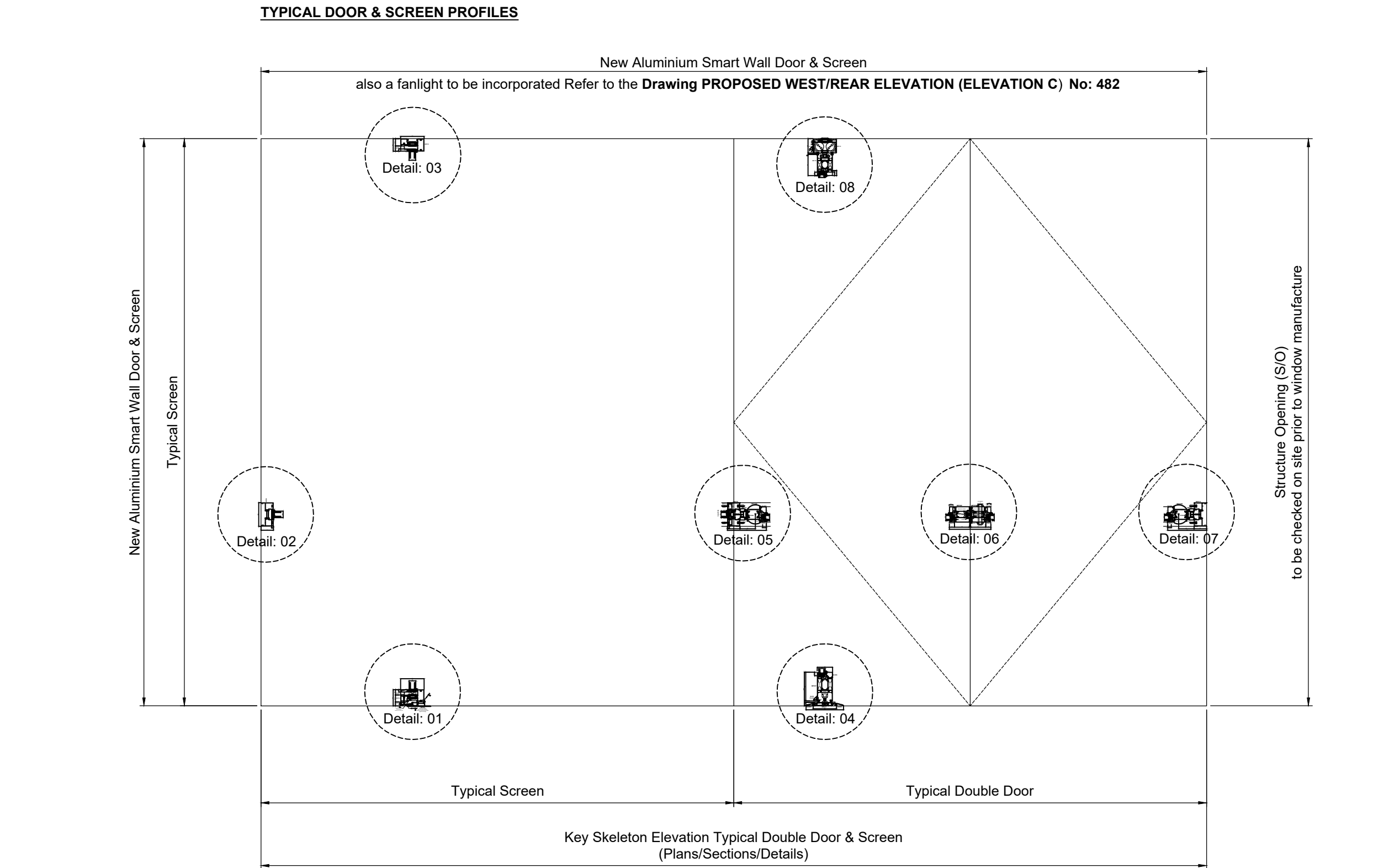
- Manufacturer: Smart Systems Ltd.
- Arnolds Way,
- Yatton,
- North Somerset
- BS49 4QN
- Tel: 01934 876100
- Fax: 01934 835169
- Email: sales@smartsystems.co.uk
- Web: www.smartsystems.co.uk



✳️ **New Aluminium Smart Wall Door & Screen**
(Scale 1:2)

- Smart Wall has recently been successfully tested to LPS 1175 level 2 and BS EN 1627 Level 3 for enhanced security performance making the door one of the best performing fully thermally broken screen and entrance doors available in the UK. Screen work is either beaded or pocket glazed.
- Smart Wall doors are weather rated to BS 6375 and are available with anti-finger trap door sections and drainable low thresholds.
- All profiles featurepolyamide barriers to maximise thermal performance and can be internally or externally glazed. Unlike non-thermal alternatives, Smart Wall is available in dual colour from an extensive range of standard and on-standard finishes. Smart Wall complies with the latest requirements of Document L for thermal transmittance.
- Smart Systems are a major supplier to the window and door fabrication industry and are active members of The Council for Aluminium in Building (CAB) and members of CWCT.
- Smart Systems aluminium and composite profile product range includes, doors, windows, glazed screens, curtain walling, roof glazing and conservatories, for both the commercial and domestic markets.
- An extensive range of ancillary items such as balustrades is available to complement each product range.
- Door and door frames are manufactured from grade 6060/6063 T5/T6.
- Size tolerances are in accordance with DIN and BS standards.
- Co-extruded profiles and EPDM seals are tested in accordance with DIN 7863, TV 110, NFP 85301, and ISO 3994.
- Thermal breaks are formed with polyamide strips PA 6.6 25 reinforced with glass fibre, fitted between aluminium extrusions.
- 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.
- Can be security rated to PAS 24-2022
- BSI Kitemarked to PAS24: 2022- KM530838 -includes, standard swing, maglock, electronic V lock, concealed panic bar, auto-slide and auto-swing options.
- Designed for use as thermally broken open out or open in, single or double doors, internally and external beaded, with sidelight options, for domestic and light/medium/heavy commercial applications.
- Door and door frames 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.
- Other finishes include anodised with EWAA/EURAS-Qualanod quality label.
- All doors are hung on aluminium butt/face hinges or transom/floor closer and fitted with hook bolt or roller latch locking mechanisms.
- Centre pivot doors are available with an anti-finger trap device.
- Glazing conforms to the requirements of BS 6262 and Part 'N' of the Building Regulations for both thickness and type.
- Weatherseals are EPDM set in undercut channels.
- Product tested to BS6375: Part 1. Weatherlightness classification:
- Air Permeability - Class 2 300Pa (Door) & Class 4 600Pa (Screen).
- Water Tightness - Class 7A 150pa (Door) & Class 9A 600Pa (Screen).
- Wind resistance - Class A5 2000Pa (Door) & Class A4 1600Pa (Screen).
- Double glazing profiles accommodate 23mm to 32mm units.
- Doors are manufactured according to customer requirements from a range of standard profiles and are designed to incorporate a range of options, therefore it is advisable to contact Smart Systems technical design department early in the design process.
- Doors are manufactured to the required design to within the following maximum limitations (subject to location).
- Single door - Max sash width 1150mm. Max height 2500mm.
- Double door - Max width 2415mm (overall frame). Max height 2500mm.
- Subject to agreement it is possible to exceed these limitations depending on design criteria, contact Smart Systems Technical Department for details.
- 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.
- Product reference: Smart Wall Commercial HD Door and Screen.
- Materials: All profiles are extruded from aluminium alloy 6060/6063 T5/T6 and comply with the recommendations of BS EN 12020-2/BS 755-9.
- Exposure: Design Wind Pressure 941pa (RG1 2DG)
- 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 1.8-2.0W/m²K.
- Target window u value based on a double-glazed unit having a centre pane u value of 1.0W/m²K and including a suitable warm edge spacer such as Thermobar or equivalent.
- ADL limiting value for high usage entrance doors is 3.0w/m²K.

- 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.
- All horizontal framing members to restrict dead load deflection to L/400, up to a maximum of 3mm.
- Construction: All doorsets 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.]
- Smart Wall outer frame sections shall be 53mm width with a depth of 100mm.
- Door profiles are square cut and a suitable small gap sealer is applied to abutments and joined using mechanical corner cleats.
- Drip bar shall be used to all doors.
- Fixed framing thermally broken can be Pocket or Bead glazed.
- Main framing profiles are square cut.
- A suitable small gap sealer is applied to abutments prior to joining with self-tapping screws driven into integral screw ports within the sections.
- Door profiles are square cut and joined using mechanical corner cleats with a suitable small gap sealer applied to abutments.
- Finish as Delivered:
- Internal Colour: To match existing.
- External Colour: To match existing.
- Glazing details: Unit thickness.
- Overall thickness of 23 to 32 mm.
- All doors to be dry glazed using 'snap in' or shuffle extruded aluminium beads and EPDM extruded gaskets.
- Ironmongery/Accessories: Standard system PAS24 hardware options as per BSI Kitemark KM530838.
- Minimum requirement for PAS24 would be two hooks locks with security Cylinder guards as indicated in Kitemark.
- Other options include - Maglock, Electronic V locks, panic escape hardware etc all to PAS24.
- Fixing: All fixings to be in strict accordance with the relevant British Standards, including BS 6262 and BS8213 Part 4, and shall ensure the door frame is retained securely within the opening without incurring any damage or distortion to the frame.
- Generally, fixings to be positioned 150mm from each corner and 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 door frames 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.



WINDOW/EXTERIOR DOOR ALTERATION K

- ✳️ Existing Timber Windows to be refurbished with secondary glazing
 - ✳️ Existing Retail Units, Ground Floor Shopfront Timber Windows/Doors to be retained and repaired
 - ✳️ New Timber Windows
 - ✳️ New Aluminium Heritage Windows (ALITHERM)
 - ✳️ New Aluminium Smart Wall Door & Screen
 - ✳️ New Timber Doors
- ROOF WINDOW ALTERATION KEY**
- ✳️ New Velux Conservation Rooflight
 - ✳️ New Velux AOV with conservation central strip

WINDOW SCHEDULE TO BE READ INCONJUNCTION WITH DRAWINGS:

PROPOSED PLANS No: 331 - 335
PROPOSED ELEVATIONS No: 480 - 484

Notes:

do not scale:
detailed drawings and larger scale drawings take precedence. Figured dimensions only are to be taken from this drawing.

dimensions:
All building and site dimensions, levels and sewer invert levels at contractor before the commencement of works. All dimensions are to be checked prior to the placement of orders for materials or the fabrication of work and any discrepancy, omission or error is to be reported to the Architect immediately for verification.

specification:
The Contractor is to comply with current Building Legislation, British Standard Specifications, Building Regulations etc. whether or not specifically stated on this drawing. This drawing must be checked against and read in conjunction with any structural or other relevant specialist and design documentation provided.

PLANNING LISTED BUILDING CONSENT

revisions:
A - 15.12.2025 - Information updated to suit Planner comment reference to trickle vents note to be removed, conditions 3, 6, & 7 - KS

client:
Mountley Group

project:
27-32 Market Place
Reading

description:
Proposed Window Details
Window Replacement/Alteration
Schedule

jdaw
architects ltd

head office:
the old stone masons, 10 st johns st,
abergavenny, monmouthshire, np23 5rt
tel: 01673 851125 fax: 01673 851127

newport:
first floor, 5 gold tops,
newport, south wales, np20 4pg
tel: 01633 245020

e-mail: info@jdwarehitects.co.uk
w: www.jdwarchitects.co.uk

drawn: Kom Singh scale: As Shown @A1
date: 29.10.2025 sheet of:
29.10.2025 SHEET OF

job drwg. no:
jw1077-337

rev: A
this drawing is copyright of the architect and may not be reproduced without licence