



Emsworth Baptist Church

842-D149

External Envelope Buildups

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The information contained in this document relates to
Condition 5 of decision APP/X1735/A/11/2153591.

1. External Wall EW01

Refer to drawing 842-T1135A

BUILDUP EW01 - Brick & Brick External Cavity Wall - Above Ground

Elite Airtightness Paint to inner face
F10:111 103mm Internal Facing Brick - FLB Place
F30:156/157 150mm Rockwool Partial Fill Insulation
50mm Residual Cavity
F10:110 103mm External Facing Brick - FLB First Quality Multi

2. Glazing Type CW01/02

Refer to drawing 842-T2130A

CURTAIN WALLING

- Supporting structure: Steel frame, RC Slab .
 - Curtain walling system:
 - Manufacturer: Schueco UK Limited, Whitehall Avenue, Kingston, Milton Keynes. MK10 0AL .
 - Product reference: FW50+ SG.SI (Silicone Glazed) thermally broken curtain walling system.
 - Type: Stick system Pressure equalised mullion drained wet sealing with three level draining system .
 - Internal framing member:
 - Material: Aluminium as clause 710 . .
 - Finish: All aluminium - polyester powder coated to RAL 7021 .
 - Colour/ texture: Black Grey RAL 7021 .
 - Minimum film thickness: Standard PPC minimum 40-70 Microns depending upon project requirement as Z31 Powder Coatings .
 - External cover cap:
 - Material: Wet seal option, weather gaps (if selected above) to be filled using silicones Dow Corning® 791, Dow Corning® 756sms, Dow Corning® 797, Dow Corning® 795 manufactured by Dow Corning® and Sikasil® WS-305 and Sikasil® WS-605 S manufactured by Sika Services AG. The use of other sealants must be agreed with the sealant supplier . .
 - Finish: Not required .
 - Colour/ texture: Dark Grey to match framing .
 - Minimum film thickness: Not applicable .
 - Glazing: Insulating glass units
- Glazing Performance:
- Thermal Performance: Centre pane 'U' Value and edge spacer PSI value to achieve overall performance better than 1.6w/m2K .
- Solar Performance: CW01: **0.576** ; CW02, 03, 04: **0.348**.
- Safety Glass: CW01: Pane A only; CW02: Pane D only; CW03, 04: All panes.
- Cavity: Cavity: 20mm cavity (inner cavity to a triple glass unit) to incorporate Schueco plastic pocket toggle-spacer bar inside DG unit tested for a gas or airtight edge seal in accordance with EN 1279-2, EN 1279-3
 - Glazing system: Structural sealant, four side bonded:
Bonding of structural glazing (double and triple glass units) and structural glazing panel units, with UV resistant edge seals, or bonded joints using two-component silicone adhesive eg. Dow Corning® 993 or Sikasil® SG-500 on anodised aluminium profiles and on stainless steel spacers. Fabrication instructions from the adhesive manufacturer Dow Corning or Sika Services AG must be adhered to.
 - * Alternatively fabricate the structural glazing (double and triple glass units) and structural glazing panel units, with UV resistant edge seals, or bonded joints with the plastic pocket profile option, using DOW CORNING® 3362 only.
 - * The surface properties of the aluminium profiles and the stainless steel spacers must correspond to Schueco specifications and those of the adhesive suppliers.
 - * For the aluminium spacer option, the anodised surface must be bonded within six months of the profile being anodised. The date of manufacture as found on the profile applies. Other aluminium extruded profiles must not be used for this purpose . .
 - Panel/ facing type: Not applicable .
 - Accessories: * Schueco internal wall attachment profile reference 327 040 complete with glazing clip reference 228 650.
 - * Schueco equalisation packer 224 851 + 224 852 complete with matching box size

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* Schueco EPDM reference 150mm 224 154.

Gaskets: as clause 760.

• Other requirements: Fabricated and installed by an agreed Schueco UK Account Holder. The Schueco aluminium curtain walling system shall be installed in complete accordance with the information published by Schueco UK, exclusively by authorised fabricators.

3. External Doors ED02, 03, 06, 07.

Refer to drawing 842-T2130A

ALUMINIUM DOORS

• Manufacturer: Schueco UK Limited, Whitehall Avenue, Kingston, Milton Keynes. MK10 OAL..

- Product reference: ADS 65 HD thermally broken, single leaf, outward opening door.

Schueco door frame for flush fitted door leaf..

Performance

- Overall average 'U' value calculated in accordance with BS EN ISO 10077 shall achieve 1.3w/m2K.

- Glazing 'G' value shall achieve: ED02/03/04 = 0.576; ED06/07 = 0.348.

- System to achieve 40dB reduction.

- Exposure category to BS EN 14351-1/ Design wind load: See Structural Engineers' requirements.

Materials/ finishes:

- Doors: Aluminium.

- Frames: Aluminium.

- Screens: Aluminium.

Finish as delivered:

- All aluminium - polyester powder coated or anodised as shown on architects drawings / schedules.

- Standard PPC minimum 40-70 Microns depending upon project requirement as Z31 Powder Coatings.

- Standard Anodize 25 Microns depending upon project requirement as Z33 Anodising.

* Glazing details:

* Doors to be fitted with internal square glazing bead glazed with EPDM gaskets.

• Glazing/ Infill details: Safety Glass.

- Manifestation: As drawing 842-T3010.

• Architects requirement for door operation:

- Emergency Escape Door.

Ironmongery/ Accessories:

- Doors to be fitted with Schueco standard hinge profile.

- Doors to be fitted with Schueco automatic sealing reference 266 785-792 threshold.

- Doors fitted with Schueco reference 184 700 drip bar to bottom of door leaf.

- Doors fitted with Schueco three part barrel hinges.

- Doors fitted with Schueco HD emergency exit system.

- Doors fitted with Schueco lever handles.

- Doors fitted with Schueco concealed door closer.

Other requirements: Fabricated and installed by an agreed Schueco UK Account Holder.

The ADS 65 HD aluminium door shall be installed in complete accordance with the information published by Schueco, exclusively by Schueco UK authorised fabricators.

4. Rooflight Company Plateau Rooflights RL02, 03, 04, 05

Refer to drawing 842-T1006A

FIXED ROOFLIGHTS TO AUDITORIUM ROOF

• Drawing References: 842-T1006;

Manufacturer: Rooflight Company Ltd..

- Product reference: Plateau Rooflight 2000mm x 1200mm.

• Type: Rectangular.

• Frame: manufacturer's standard to suit required construction depth and upstand..

- Finish: factory applied phosphate paint finish.

- Colour: RAL7021 or equivalent.

• Kerb: Timber by main contractor.

• Glazing details: Sealed DG unit: 6.4mm SGG Stadip (Clear Laminate) Planitherm One (Low E) inner, 16mm Argon Cavity, 6mm SGG Planilux toughened Outer.

Retention: manufacturer's standard

Flashings: Bespoke to suit standing seam roof finish as per The Rooflight Company' drawing E2041_001ENQ_B

Other requirements: Electrically operated blackout blind as per specification N10..

- Fixing: in accordance with manufacturer's instructions.

6. TEK Intonat Attenuated Roof Terminal

Refer to drawings 842-T1006 and 842-T3201

ROOF VENTILATORS

- Manufacturer: TEK Ltd. 14 Seeleys Road, Birmingham, B11 2LQ.
- Product reference: Bespoke Intonat Active Stack with custom aluminium Turret.
- Type: As per 842-T3201 and TEK quotation Q8857Gr3.
- Controls: Linear actuator.
- Materials: Frame: Aluminium.
- Finish as delivered: Principal components polyester powder coated.
- Seals: Required.
- Guards: Not required.
- Noise Reduction: $D_{n,e,w} = 31\text{dB}$ as per BS EN ISO717-1:1997
- Accessories/ Special features: As per specialist subcontractor design; custom aluminium turret to comprise 3mm thick aluminium laser cut sheet, powder coated to a standard RAL colour and fixed to roof turret with angled brackets.
- Fixing: Fix to timber framed kerb upstand in line with manufacturers recommendations..

7. Zinc Roof Buildup

Refer to drawings 842-T1006 and 842-T2200/07

ZINC STANDING SEAM ROOFING

VM Zinc Plus standing seam roof.

VM Zinc plus breather membrane.

245mm thk Rockwool DuoRock.

Alutrix 600 VCL + 2.5mm anti-drumming membrane

TATA steel perforated metal deck. G30:111

Rockwool Acoustic insulation in troughs of metal deck. P10