

**Legend**

**MATURATION & RECEPTION HALLS**

General note - all claddings and fixings in the Maturation Halls must be suitable for the appropriate Class for the toxic environment and temperatures between 40 - 70 degrees C and very high humidity.

- C1 Single skin horizontally laid 0.7mm 50/1000 half-round profiled steel coated both sides, all with standard colours, joints to be sealed and all fixings to be stainless steel. External corners to be mitred. Colour for different areas will vary
- C2 Single skin vertically fixed trapezoidal cladding coated both sides - trapezoidal profile to be indents with 200mm min flat face to outside, all with standard colours, joints to be sealed and all fixings to be stainless steel. Colour for different areas will vary.
- C3 Feature flashings to form a frame to half-round C1 type cladding panels - 0.7mm folded profile to be approx 50mm across face x 200mm deep to face of C2 panels - to be same colour as C1 panels
- C4 Fair faced concrete plinth
- C4a Fair faced concrete circular columns and beams - this column grid line relates to RC wall on south elevation
- C5 Fire insulation - same finished panel as C1 using half-round cladding profile on spacers with vertical rails, with inner liner panel as continuation of C1 panels (all joints to be sealed to avoid air leakage) and void between sheets filled with "rockwool" or similar to achieve 240/15mins fire integrity/insulation. All fixings to be stainless steel

- C5a Acoustic insulation C1 panel - half-round cladding profile with inner acoustic board lining to inner face of sheeting rails to provide a weighted sound reduction of 32dB(RW). As before - all joints to be sealed to avoid air leakage. All fixings to be stainless steel
- C5b Acoustic insulation C2 panel - vertically fixed trapezoidal cladding coated both sides, with inner acoustic board lining to inner face of sheeting rails to provide a weighted sound reduction of 32dB(RW). As before - all joints to be sealed to avoid air leakage. All fixings to be stainless steel
- C6 Larch weather boarding - 100 x 38mm treated vertical larch staves on 50 x 30mm treated sw horizontal battens at max 500mm c/s, spaced max 15mm apart, over black insect mesh, all with a trapezoidal finished liner, coloured charcoal dark grey. Profile of liner to face out to space battens out from liner to allow drainage, and all fixings to be within the troughs of the liner panels. Bands of weatherboarding to be separated by 100mm high string course formed from a pressed metal PPC flashing and drip. Staves to be fixed in random pattern and not lined vertically between bands. All to be treated for fire with Class O coating.
- C6a As C6 but there is to be no horizontal string course between bands. Larch staves spaced with 10mm gap between.
- C7 Ventilation openings in weatherboard to be vertical alternate boards on treated 42 x 42mm sw frames 'hit and miss' cladding panels fixed to 38x38mm softwood battens fixed to trapezoidal liner sheet as C6 or sub-frame. Liner sheet cut out to area required for ventilation which is less than the area of the hit and miss openings. Light of a suitable quality to be allowed into ramp area. Louvers to be of a suitable design to minimise noise breakout from internal operating areas.

- C7a Ventilation openings in weatherboard to be vertical alternate boards on treated 42 x 42mm sw frames 'hit and miss' cladding panels fixed to 38x38mm softwood battens fixed to trapezoidal liner sheet as C6 or sub-frame. Liner sheet cut out to same area to allow view out from the working floor.
- C8 Pressed metal cassette rain screen panels on galvanised steel sub frame to all 4 sides of large frame
- C9 Schuco or similar curtain walling system comprising double glazed units and coloured feature panels, with steel restraint structure subject to SE details. Transoms to be expressed as 200mm deep sections and mullions to minimum size with very dark colour finish. Allow for 1No. emergency escape door, and glass balustrading to front edge.
- C10 Double cell polycarbonate cladding. Rodeca or similar.
- C10a As C10 above but with C2 panel fitted behind.
- C10b As C10a but to provide a weighted sound reduction of 32dB(RW).
- C11 Horizontal coated acoustic louvers onto steel subframe, to include head, jams and cills. Flashing to same colour. Louvers to provide a weighted sound reduction of 32dB(RW).
- C11a As C11 but no acoustic requirement.
- C12 RC structure with vertical half round impressed pattern. Same pattern profile as C1.
- C12a RC structure with smooth face finish. All panel joints to have a recessed chamfered edge.

**ROLLER SHUTTERS**

All doors to be electrically operated Jewers Acoustic doors or similar, with a galvanised finish, typically 4m wide x 6m high to provide a weighted sound reduction index of 32dB(RW).

Doors into the De-Stoner building to be similar but up to 7.0m wide.

**Cladding Notes:**

Parapet internal face to be lined with profiled single sheet standard cladding

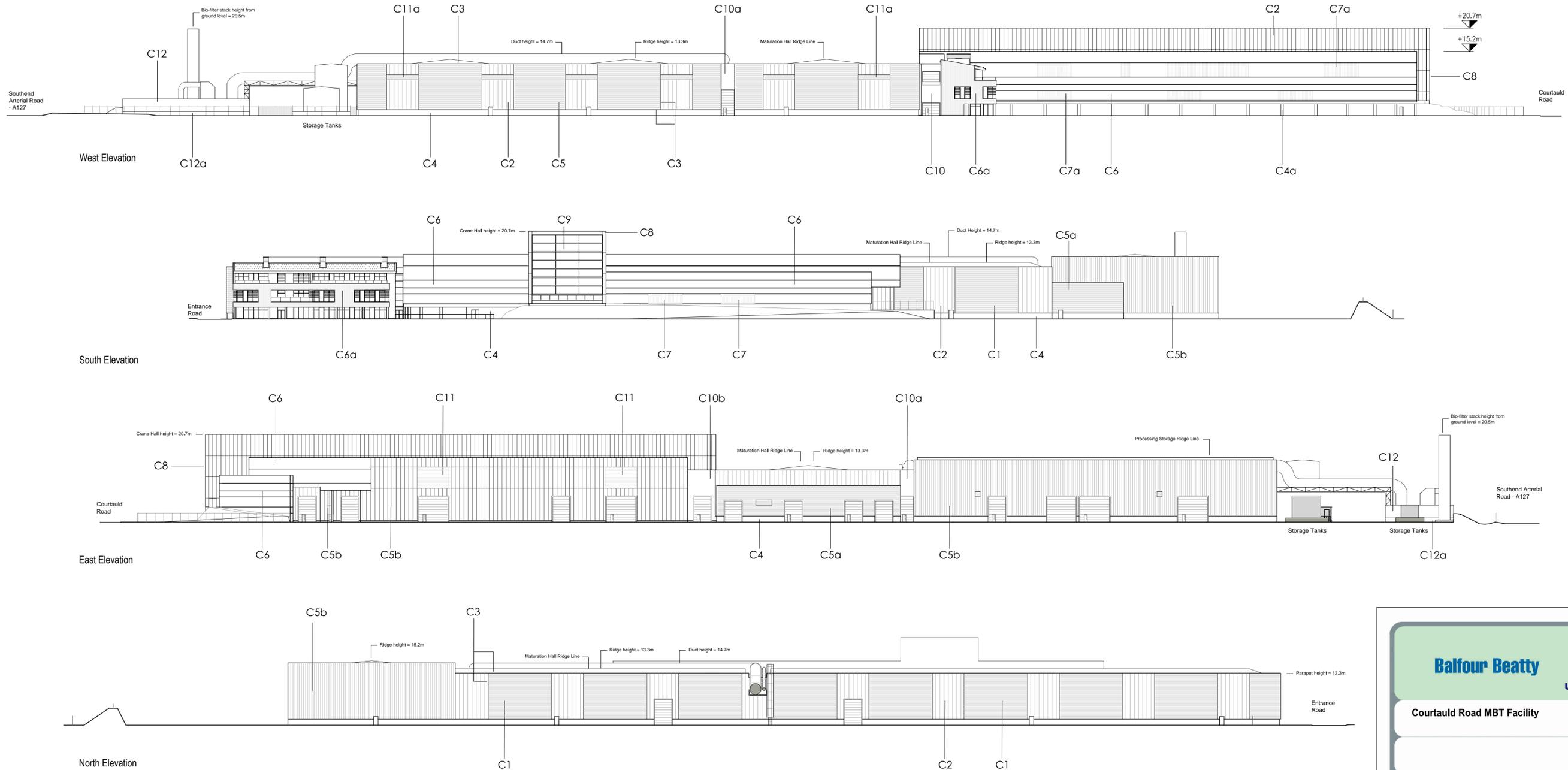
Parapet internal face to Maturation Halls to be lined with profiled single sheet cladding with Ultra coating both sides or similar, and standard coating to Reception building

**NOTES:**

Acoustic roller shutter doors and cladding; where required, is to provide a weighted sound reduction index of 32dB(RW).

Internal acoustic absorption to buildings where required must be Class A acoustic absorber to comply with the requirements of BS EN ISO 11654. Total surface area to be treated with acoustic absorber should correspond to at least 50 percent of the internal surface area of walls and the roof.

All materials and finishes that are either used or exposed to the conditions and atmosphere within the Maturation Halls must be appropriate for:  
The corrosive atmosphere.  
Fire rating.  
Temperature & humidity.



**Balfour Beatty**



**Courtauld Road MBT Facility**

Title: **MBT Facility Elevations Cladding Schedule**

Drawing No: **PLA\_008**

Scale: **1:500 @ A1**