

ESS MODULAR - WALL BUILD-UP

1. Powder coated aluminium parapet flashing - Ral Colour: tbc. Use buttstrap detail with butyl tape strips - Detail to be confirmed with flashing fabricator
2. Perforated mesh to protect cavity
3. 410x65x40 Galv. C section support straps 100mm long at 400c/c to allow ventilation of cavity
4. 'Tenmat' or equal approved Ventilated Cavity Fire stop
5. DuPont Tyvek 1560B breather membrane to external face of board
6. 9mm Multipro XS board
7. Tyvek Airguard Reflective vapour barrier
8. 50x84mm Galv. C-section to head and jamb of window
9. 180mm Omnifit Stud 34 Insulation (non rigid)
10. 12mm Multi-Rend Cladding Board
11. Armourplan Topdek Membrane lapped over parapet
12. 100x50mm PFC
13. Ensure Breather membrane is lapped and sealed to Vapour Barrier
14. Self-drilling self-tapping counter sunk raised head high thread fastener at 400mm centres
15. Armourplan Topdek Membrane Strip
16. Armourplan Topdek Membrane
17. Self-coring primary fixings with washer 1No. per Trough
18. Vapour Control Layer
19. 130mm high Galvanised steel roof purlins
20. 12.5mm Fireline board to underside of Joists - all joints air taped and sealed with painted finish.
21. PPC Aluminium drip flashing - RAL colour to match windows
22. Corium Air Bricks (centers to be confirmed) at this level
23. 100x75x2mm Angle Bracket 100mm Long, Fixed @ 600 Horizontal ctrs to OSB/Timber studs, @max 1200mm Vertical ctrs.
24. 100x75x2mm Continues Vertical Angle fixed to Brackets to be lined and leveled horizontally and vertically
25. Corium Tiling
26. HPS200 Corium Rail System (bottom 3 no. railing to be stainless steel)
27. 88mm ventilated Cavity
28. Services Cavity
29. 15mm MegaExcel Plasterboard
30. Selected skirting board
31. Internal airtight seal Selected Floor finish
32. Selected Floor finish
33. 50mm Cem/Floor Screed Commercial
34. 1200 gauge DPM
35. 18mm Plywood flooring
36. 180x70x2 Galvanised steel floor joists @ 406mm c/c
37. 30mm PIR Insulation
38. Steel mesh underdraw
39. 20mm Surface Course
40. 50mm Binder Course
41. 150mm Sub Base
42. Pin Kerb and base to Civil engineers Design
43. 520x520x550 CONCRETE PILE CAP TO STRUCTURAL ENGINEERS
44. DESIGNER to inside of PFC
45. 200x75 PFC to Structural Engineers detail

LIVING-WALL BUILD-UP

46. Top Flashing to Cover Irrigation Drip-line from direct sun and climate - gutter & associated brackets by others or priced as additional works
47. 12mm Waterproof backing board - Versapanel ECO sheet installed at 300mm centres
48. 4.5mm Rear drainage layer - geotextile drainage layer to stop water penetrating behind structure
49. Rail Carrier system - 26mm Aluminium rail to suit modular panels
50. Irrigation Dripline - 16mm Diameter Pressure Compensated dripline. Dripline protected with rigid PVC extrusion cover strip.
51. Bio-tile (Planted Panel)
52. Standard PVC Base Gutter to Drain Excess irrigation Water into designated Area - gutter & associated brackets by others or priced as additional works
53. Drainage pipe

FACTORY SPECIFICATION

Ground Floor:

- U-value: 0.17W/m²K (Required 0.18W/m²K)
- Selected Floor Finish - (Site Fitted)
- 50mm Concrete Screed - (Site Fitted)
- 23mm Brio Board on 25mm PIR to wet areas - (Fitted off site)
- 18mm T&G structural Plywood Flooring screwed @150c/c along joists.
- 180 x 70 x 2mm floor joists @ 406/300mm c/c.
- 200mm Earthwool Loft Roll between joists.
- 20mm PIR Insulation
- 0.7mm steel mesh underdrawing with 60 -70% free area.
- 220x89x19x3 Steel floor beams.
- 150mm min. Ventilated void.

Ground Floor Roof:

- 300x100x25x5 Steel roof beams.
- 35mm Single skin kingspan metal deck.
- 130 x 50 x 2mm roof purlins @ 600mm c/c.
- 100mm Rockwool Insulation
- 15mm MegaExcel (lay at 90 degrees to the joists) plasterboard screw fixed at 150mm ctrs.
- 12.5mm MegaExcel
- Fire Mastic seal to all joints and Air Tight Tape.
- Ceiling Void to required depth.
- Layer in grid suspended ceiling system. - (Site Fitted)

First Floor Double Story:

- Selected Floor Finish - (Site Fitted)
- 50mm Concrete Screed - (Site Fitted)
- 23mm Brio Board on 25mm PIR to wet areas - (Fitted off site)
- 18mm T&G structural Plywood Flooring screwed @150c/c along joists.
- 180 x 70 x 2mm floor joists @ 406mm c/c.
- 200mm Earthwool Loft Roll between joists.
- Vapour Control underdrawing with 60 -70% free area.
- 300x100x25x5 Steel floor beams

Flat Roof Double Story:

- U-value: 0.15W/m²K (Required 0.15W/m²K)
- 91mm KS1000 TD Topdek on top of Purlins. IKO Armourplan Slate RAL 7046 Mid Grey PVC
- 130 x 50 x 2mm purlins @ 400/600mm c/c fixed between beams. Refer to Steel drawing for location.
- 150mm Earthwool® Loft Roll 44 insulation between purlins.
- 12.5mm MegaExcel plasterboard foil backed fixed to u/s of purlins.
- Air tight tape to all joints.
- 340x100x25x5 Steel roof beams. Refer to Steel drawing for location.
- Layer in grid suspended ceiling system. - (Site Fitted)

Flat Roof Single Story:

- U-value: 0.15W/m²K (Required 0.15W/m²K)
- 91mm KS1000 TD Topdek on top of Purlins. IKO Armourplan Slate RAL 7046 Mid Grey PVC
- 130 x 50 x 2mm purlins @ 300mm c/c fixed between beams. Refer to Steel drawing for location.
- 150mm Earthwool® Loft Roll 44 insulation between purlins.
- 12.5mm MegaExcel plasterboard foil backed fixed to u/s of purlins.
- Air tight tape to all joints.
- 370x106x25x5 Steel roof beams. Refer to Steel drawing for location.
- Layer in grid suspended ceiling system. - (Site Fitted)

Hall Roof:

- U-value: 0.15W/m²K (Required 0.15W/m²K)
- 91mm KS1000 TD Topdek on top of Purlins. IKO Armourplan Slate RAL 7046 Mid Grey PVC
- 130 x 50 x 2mm purlins @ 400/600mm c/c fixed between beams
- 420x50x2mm @1200c/c. Refer to Steel drawing for location.
- 150mm Earthwool® Loft Roll 44 insulation between purlins.
- 12.5mm Fireline plasterboard fixed to u/s of purlins.
- Air tight tape to all joints. Taped and jointed with a painted finish
- 420x100x25x5 Steel roof beams. Refer to Steel drawing for location.
- [Sports Hall Only] - 1200x1200 EcoPhon Solo Square Sound Baffle with 'AL11 fixing' Class 'C' absorption rate

Type 01 - Corium Brick slip to cill level and render on 9mm Render Cladding Board above:

- U-value: 0.21W/m²K (Required 0.20W/m²K)
- Corium Brick Slip - (Site Fitted)
- 9mm Render Cladding Board SPS Envirowall Render White - TBC RAL TBC (Colour TBC). Refer to Elevation for location. - (Site Fitted)
- Metal cladding rails 88mm cavity's. - (Site Fitted)
- DuPont Tyvek 1560B breather membrane to external face of board.
- 9mm Multipro XS board.
- 174 x 43mm Timber Studs @ 600mm ctrs.
- 180mm Knaf Omnit stud 34 insulation between studs.
- Tyvek AirGuard reflective vapour control layer.
- 38mm Services Cavity with
- 15mm MegaExcel plasterboard, taped and jointed. (Fire rating TBC)

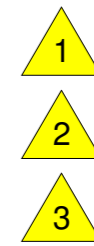
Type 02 - Living wall Build-up to be confirmed:

- U-value: 0.21W/m²K (Required 0.20W/m²K)
- Living Wall Plants to be confirmed. - (Site Fitted)
- 12mm Versa Panel ECO Sheet @ 300 centres (Site Fitted)
- 4.5mm Rear drainage layer (Site Fitted)
- 12mm Render Board - with rendered finish as required - (Site Fitted)
- Metal cladding rails 88mm cavity's. - (Site Fitted)
- DuPont Tyvek 1560B breather membrane to external face of board.
- 9mm Multipro XS board.
- 174 x 43mm Timber Studs @ 600mm ctrs.
- 180mm Knaf Omnit stud 34 insulation between studs.
- Tyvek AirGuard reflective vapour control layer.
- 38mm Services Cavity with
- 15mm MegaExcel plasterboard, taped and jointed. (Fire rating TBC)

Type 03 - Render on 9mm Render Cladding Board above:

- U-value: 0.21W/m²K (Required 0.21W/m²K)
- To All first floor class rooms
- 9mm Render Cladding Board SPS Envirowall Render White - TBC RAL TBC (Colour TBC). Refer to Elevation for location. - (Site Fitted)
- Metal cladding rails 88mm cavity's. - (Site Fitted)
- DuPont Tyvek 1560B breather membrane to external face of board.
- 9mm Multipro XS board.
- 174 x 43mm Timber Studs @ 600mm ctrs.
- 180mm Knaf Omnit stud 34 insulation between studs.
- Tyvek AirGuard reflective vapour control layer.
- 38mm Services Cavity with
- 15mm MegaExcel plasterboard, taped and jointed. (Fire rating TBC)

H&S LEGEND:



- 1. INSTALLATION AT HEIGHT - CARE SHOULD BE TAKEN WHEN INSTALLING HIGH LEVEL ELEMENTS SUCH AS ROOF AND LIGHTING ELEMENTS, AND THE CORRECT SUPPORT EQUIPMENT SHOULD BE USED.
- 2. MAINTENANCE AT HEIGHT - CARE SHOULD BE TAKEN WHEN MAINTAINING HIGH LEVEL ELEMENTS SUCH AS ROOF AND LIGHTING ELEMENTS, AND THE CORRECT SUPPORT EQUIPMENT SHOULD BE USED.
- 3. ROOF WORKS - RISK OF FALLING HEIGHT. ROOF EDGE AND VOID DEGREE PROTECTION MUST BE INSTALLED PRIOR TO ANY WORK AT HEIGHT.

DRAWING TO BE READ IN CONJUNCTION WITH 10A ACCESS TO HIGH LEVEL AND MAINTENANCE DOCUMENT.

REV	BY:	DESCRIPTION:	DATE:
P1	IM	Living Wall Proposed Build-up Added	07.10.19
P1.1	IM	Preliminary Issues	11.07.19

DRAWING STATUS:

CONTRACTORS PROPOSALS



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CLIENT:

Initiative

PROJECT:

Collis Primary School

DRAWING TITLE:

8030-End Wall Detail_Living Wall

DATE: 07/16/19 DRAWN BY: IM CHECKED BY: COC

SCALE @ A2: As indicated PROJECT N°: 2025 REVISION: P1

DRAWING NO:

2025- ESS- 00- ZZ- DR- W- 8030