

EXTENSION ZINC PITCHED ROOF U-VALUE 0.11W/m2K (Warm roof)
 VM Zinc Pigmento PLUS red -Zinc Standing seam roof covering, Standing seam centres at 530mm c/c. Standing seam system to come complete with VM zinc trims, clips, WARMFAST fixings, mesh vent trims etc to provide a complete installation package - Complete Zinc roof system to be installed by approved VM zinc installer to manufacturers specifications and details to achieve manufacturers 30 year warranty.

VMZINC Breather membrane with overlapped and taped joints to manufacturers instructions/details.
 200mm Celotex XR4000 or similar approved 0.022 PIR insulation 0.022W/mk (140kPa - 0.022W/mk) Tape all joints with Foil tape. Spray foam joints where required. Pressure treated softwood insulation support kerb - setting out to accommodate perimeter vented facade drip trims

VMZINC approved Continuous fully supported ALUDEX MAX bitumen backed aluminium foil vapour control layer to BS6229:2003 with hot or cold glued joints to manufacturers details. Seal and tape all pipe penetration to membrane.

Steel frame to structural engineers design details. Note: steel fabrication drawings to be provided for approval prior to order.

18mm WBP plywood to structural engineers details. Assumed 70x170mm deep roof joists to structural engineers details.

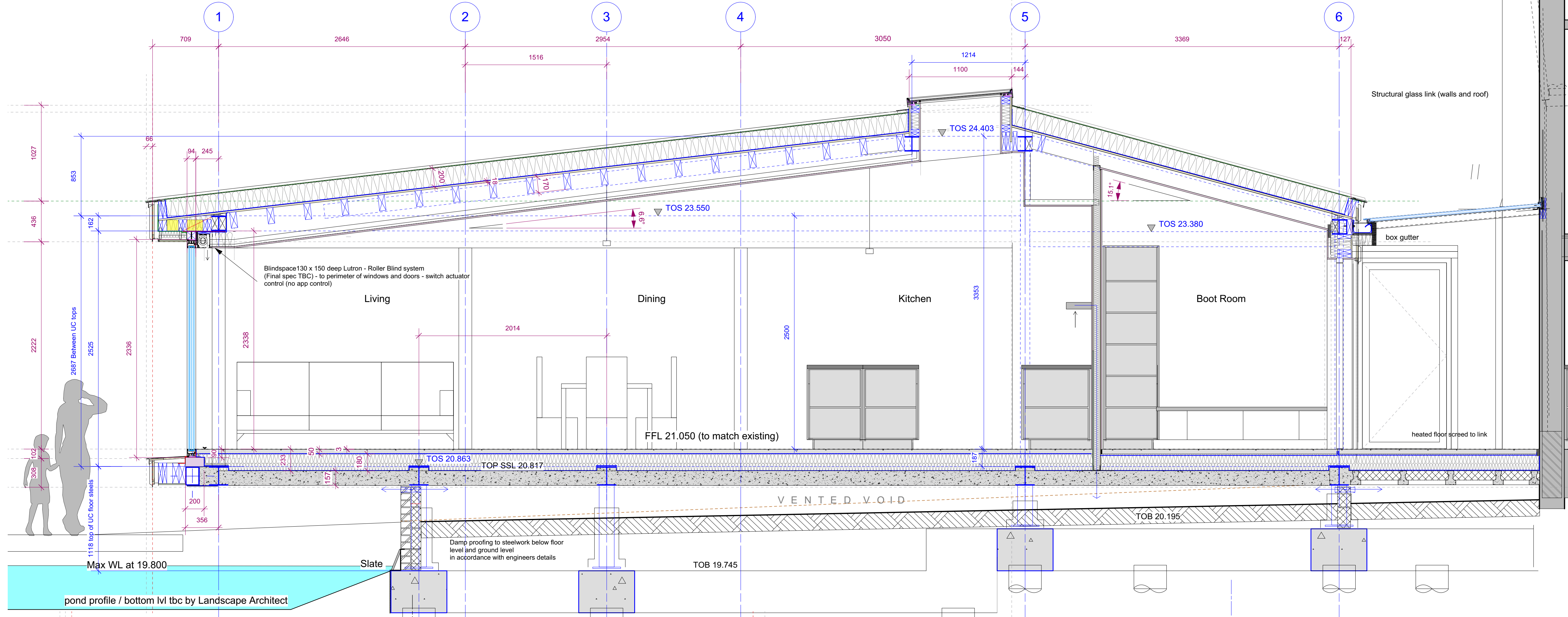
British gypsum suspended MF channel ceiling system. Taper to key points so no bulkheads - ceiling system to be installed to manufacturers specs, instructions nd details.

12.5mm Plasterboard, scrim taped joints skim plaster.

NOTE: STEELWORK FABRICATION DRAWINGS TO BE PROVIDED FOR STRUCTURAL ENGINEERS, ARCHITECTS AND CONTRACTORS CHECKING PRIOR TO ORDER.

NOTE: ALL DESIGN DETAILS AND MEASUREMENTS TBC ON SITE
 PRIOR TO FABRICATION/ORDER OF:
 -STEELWORK
 -DECORATIVE OAK ROOF
 -RC HOLLOW RIB FLOOR
 -WINDOWS, DOORS AND ROOF LIGHT
 -ZINC CLADDING
 -BLINDS

- General Notes**
- This drawing is to be read in conjunction with other engineers, designers, subcontractors and specialists drawings and any associated specifications and details. Any discrepancies are to be reported to the CA/Client or relevant project manager before proceeding with the works.
 - All workmanship and materials are to be carried out in accordance with current British Standards, Codes of Practice and good building practice.
 - All work to be to the satisfaction of the Building Control checking authority.
 - Do not scale this drawing. All dimensions to be as noted. Contractor to check all dimensions on site before carry out works.
 - Where existing elements are exposed or investigated during the building works and are found to be not as assumed then contractor to confirm and notify CA/design team/client as applicable before proceeding with works.
 - The contractor is responsible for site health & safety including taking all necessary precautions to ensure stability of both existing and proposed structures at all times during construction. Contractor to contact structural engineer immediately where any doubts arise on site.
 - All services/utilities are to be located and protected as necessary by the contractor prior to the commencement of the works.



EX CL 25.550
EX First FFL 23.380
EX CL 23.070
EX Ground FFL 21.050

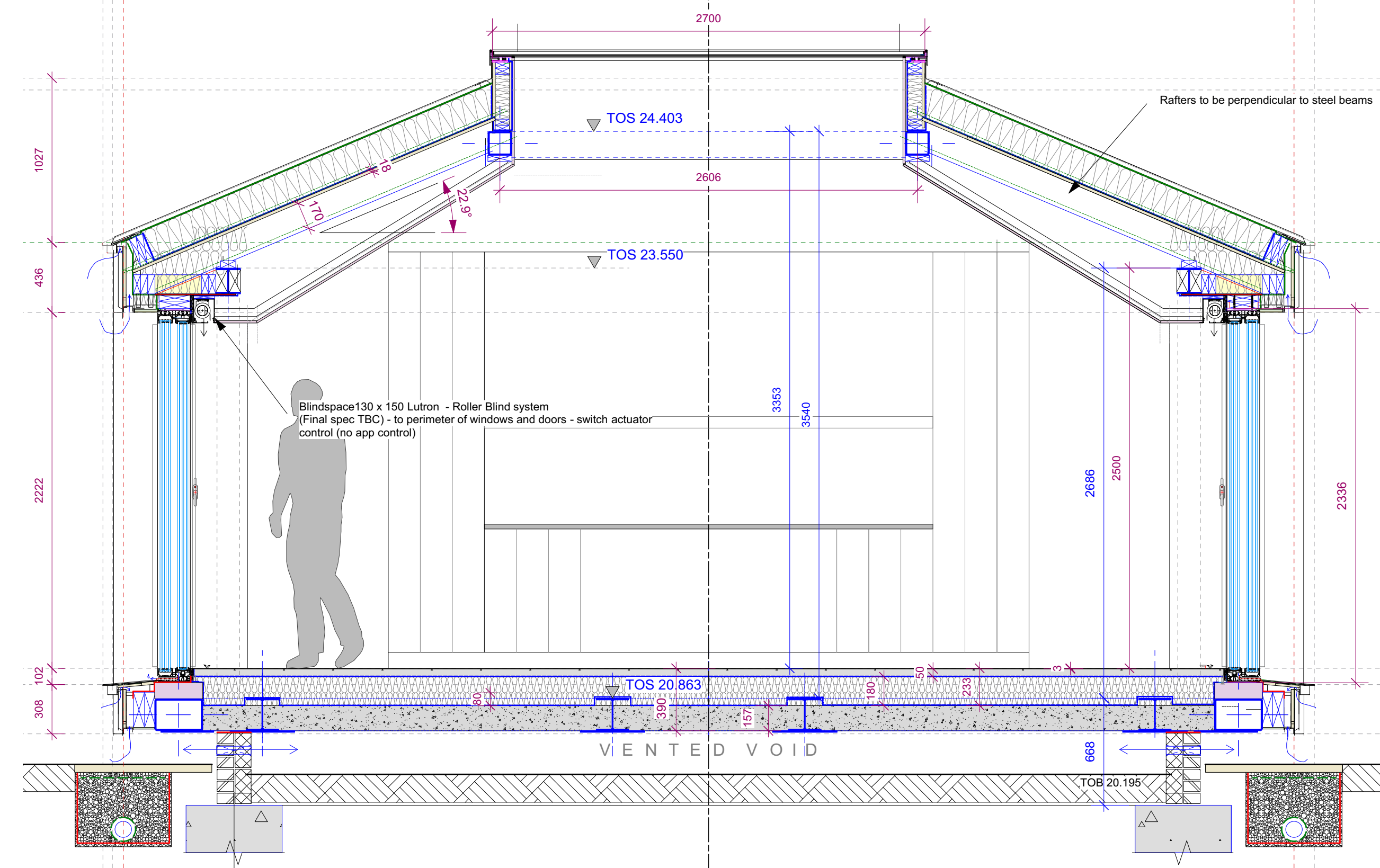
RESIDUAL RISK TO HEALTH & SAFETY

Whilst we have made every attempt to design out risk associated with our design some risks may remain. Significant residual risks relating to our design are detailed below with our assessment of how these may be managed. The contractor remains responsible for identifying and managing risk associated with construction processes and site safety and these risks should be identified within the contractor's Construction Health & Safety Plan all operations carried out in accordance with HSE requirements, Current Code of Practice and compliance with CDM 2015 regulations. Numbered triangles further highlight specific locations where residual risks remain:

- Access equipment for cleaning and maintenance will be required and works undertaken by qualified and competent person.
- The risks associated with working at height should be reduced by using appropriate scaffold, platforms, mobile elevating equipment, safety nets or fall arrest systems as deemed appropriate by the contractors review and assessment of the construction methodology & process.
- The locations of all existing services and utilities must be confirmed prior to commencement of the works.
- The engineer must be contacted immediately where unsure or concern raised regarding the stability of any structure.

Preliminary Tender
 For Tender only. Not for construction!
 -Final Roof structure design and details TBC by structural engineer
 -suppliers drawings to be provided for approval, see adjacent note
 -Drawing to be coordinated with structural engineers drawings
 -Planning conditions to be addressed
 -Appointed window/door supplier to provide detailed drawing package for planning approval and initial site coordination prior to starting on site.
 -Sitting out to be added to construction issue drawings
 -Client to submit CIL forms prior to commencing on site.

**FOR STRUCTURAL DESIGN DEVELOPMENT ONLY!
 STEEL FRAME DESIGN TO BE UPDATED TO SUIT NEW CEILING DESIGN AND NEW NEXT GEN IQ GLAZING SYSTEMS.**



MAIN EXTENSION GROUND FLOOR U value 0.11 W/m2K
 3mm Forcrete Microcement or similar approved floor finish to manufacturers specs, details and instructions

50mm floating Gyvlon Thermo+ liquid screed, Min 20mm cover over underfloor heating pipes. Install in accordance with manufacturers specification and details www.gyvlon.co.uk by approved installer. Omnie underfloor heating pipes installed strictly in accordance with manufacturers/suppliers design and installation instructions.

Movement joints at all door thresholds and between underfloor heating zones.

Min. 1000 gauge polythene separating layer between screed and insulation to be installed as required by insulation manufacturer lapped up the full height of the perimeter insulation.

180mm thick Celotex GA4000 or similar approved 0.022 W/mK PIR insulation, tape joints with 75mm foil tape. 2 layers, layer 1 = 80mm and layer 2 = 100mm, 50/50 Staggered brick bonded joints between the layers. Insulation to be installed in accordance with manufacturers details/instructions. 25 mm Celotex GA4000 or similar approved 0.022 W/mK edge strip perimeter insulation to all external walls, partitions and windows.

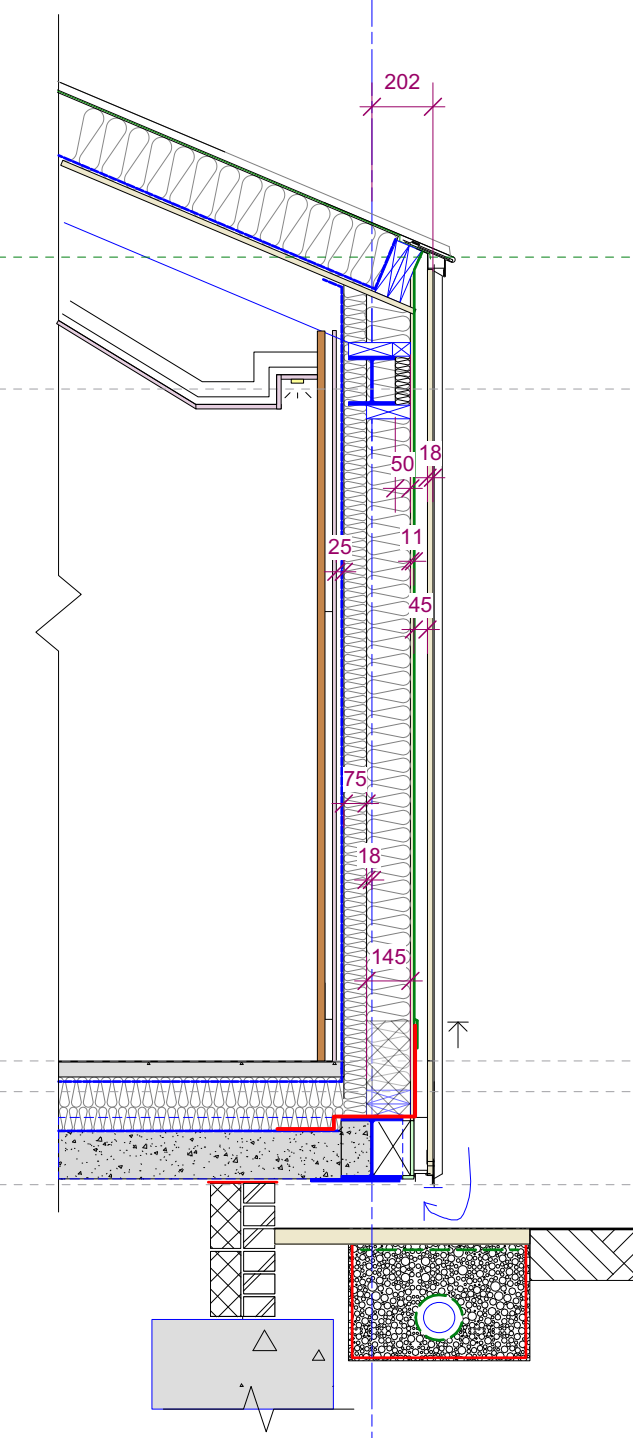
RiW Sheatseal 226 DPM system, all joints to be overlapped and taped. Tape to back of sliding door and window glazing track. Dress up to full extent of floor depth on external face of frame. Locally to entrances terminate min 150mm above the finished ground level. Link up with Wide Bed DPC's under timber frame, see details drawing.

157mm deep RC hollow rib deck floor to structural engineers details, Manufacturers drawings to be presented to structural engineer & building control for approval prior to order. Steel frame to structural engineers details - Refer to structural engineers drawings for specs / details - Steel fabrication drawings to be presented for approval prior to order.

Window and door bearings to structural engineers details.

Compacfoam cf200 thermal load bearing insulation blocks under windows and doors subject to IQ confirmation. 2 sizes (300x100mm & 200x100mm)

min 150mm vented undercroft, refer to perimeter plinth wall note for air vents



TIMBER FRAMED WALLS (U value 0.11W/m2K)
 VM Zinc Pigmento PLUS red -Zinc Standing seam, Vertical standing seam cladding to be installed by VM zinc approved installer to manufacturer details and specification to achieve manufacturers 30 year warranty - Seams at 530MM c/c widths. Standing seam cladding system to come complete with VM zinc trims, clips, fixings, mesh vent trims etc to provide a complete installation package.

VM zinc approved breather (separating membrane) staple fixed to ply to manufacturers details.

18mm WBP plywood s/s screw counter sunk fixed at max 150mm c/c and 75mm c/c along joints. 18mm Marine grade ply to be used adjacent high level ground areas

45 x 70mm sw pressure treated vertical cladding vent battens fixed with stainless steel screws into main internal studs through breather and Sheath.

Install Zinc insect mesh vents top and bottom of wall to prevent insect ingress. Note min 38mm continuous ventilation required for zinc rain screen, from bottom to top.

Dupont Tyvek housewrap or similar approved breather membrane to outside of insulation board, fix, lap and install in accordance with manufacturers fixings instructions

Sheathing to timber frame to structural engineers details. 12mm wbp Ply or osb3, fixed using 3.75mm diameter nails at 50mm centres.

Timber frame to structural engineers design - assumed at 45x145 - refer to structural engineers drawings for details -

Local dpc detailing only adjacent entrance aprons & steps 140mm build block off of steel where ground levels are higher

140mm Celotex XR4000 or similar approved 0.022 W/mK PIR insulation friction fitted between timber framework, Foil tape all joints

75mm Celotex GA4000 or similar approved 0.022 W/mK PIR insulation screw fixed to Timber frame. All joints to be close abutted, Link floor insulation up with wall insulation. Foil tape all joints

Dupont Aircuard reflective vapour Air control layer to entire wall. Lap and tape with Floor Air vapour control layer, at roof lap and tape to Roof sheath board

Ensure continuity of airtight barrier by sealing at all junctions. Use Dafa tapes or similar approved.

25 x 50mm sw pressure treated batten service zone. Battens at same centres as timber frame studs and screw fixed in place. 12mm ply lining where required for shelves and heavy fixings.

12.5mm Gypsum wallboard and skim finish internally. Scrim tape all joints, use moisture.

FOR GREATER DETAIL. REFER TO 1:10 CONSTRUCTION DETAILS ON DRAWING WD15

G	Design and coordination updates	17.11.23
F	Design and coordination updates	23.10.23
E	Updated to suit engineers drawing issue 15.09.23	25.09.23
D	Pond alignment with masonry plinth updated	13.09.23
C	Pond added, Floor design change	08.09.23
B	Design updates, Roof height increased 38mm to accommodate blind system. Link window/door fenestration updated. Updated to suit SE details.	03.08.23
A	Design updates	26.05.23

Rev

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DRAWING
 Proposed Extension Sections and notes

SCALE 1:25 @ A1	DATE Jan 2023	DRAWN BY CB/JDS	CHECKED CB
DRAWING NUMBER WD12	JOB NUMBER 466	STATUS TENDER	REV G

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