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FULL FILL CAVITY WALL

To achieve minimum U Value of 0.18W/m²K
102.5mm brick to match existing, 150mm cavity full fill with Rockwool cavity wall insulation, 100mm thermalight block, 12.5mm plasterboard on dabs with skim finish.

FLAT ROOF

To achieve U value 0.15 W/m²K
Flat roof to be GRP roofing system providing aa fire rating for surface spread of flame with a current BBA or WIMLAS Certificate and laid to specialist specification. Single ply membrane to be fixed to 18mm exterior quality plywood over 150mm Kingspan rigid board insulation. Insulation bonded to vcl on 18mm external quality plywood decking or similar approved on sw firings to minimum 1 in 80 fall on existing sw treated 47 x 175mm flat roof C24 timber joists at 400mm ctrs to give a max span of 3.22m or as Structural Engineer's details and calculations. Underside of joists to have 12.5mm foil backed plasterboard and skim. Provide cavity tray where new roof abuts existing house.

SOLID FLOOR INSULATION OVER SLAB

To meet min U value required of 0.18 W/m²K
Solid ground floor to consist of 150mm consolidated well-rammed hardcore. Blinded with 50mm sand blinding. Provide 100mm ground bearing slab concrete mix to conform to BS 8500-2 over a 1200 gauge polythene DPM. DPM to be lapped in with DPC in walls. Floor to be insulated over slab and DPM with min 100mm Kingspan Kooltherm K3 (or equivalent) A VCL should be laid over the insulation boards and turned up 100mm at room perimeters behind the skirting, all joints to be lapped 150mm and sealed. Finish with 65mm sand/cement finishing screed with light mesh reinforcement. 25mm perimeter upstand insulation acting as expansion joint for concrete slab and screed.

NEW AND REPLACEMENT WINDOWS
& DOORS to be double glazed and to achieve U-value of 1.4 W/m²K.

Cavities below ground level to be filled with lean mix concrete min 225mm below damp proof course.

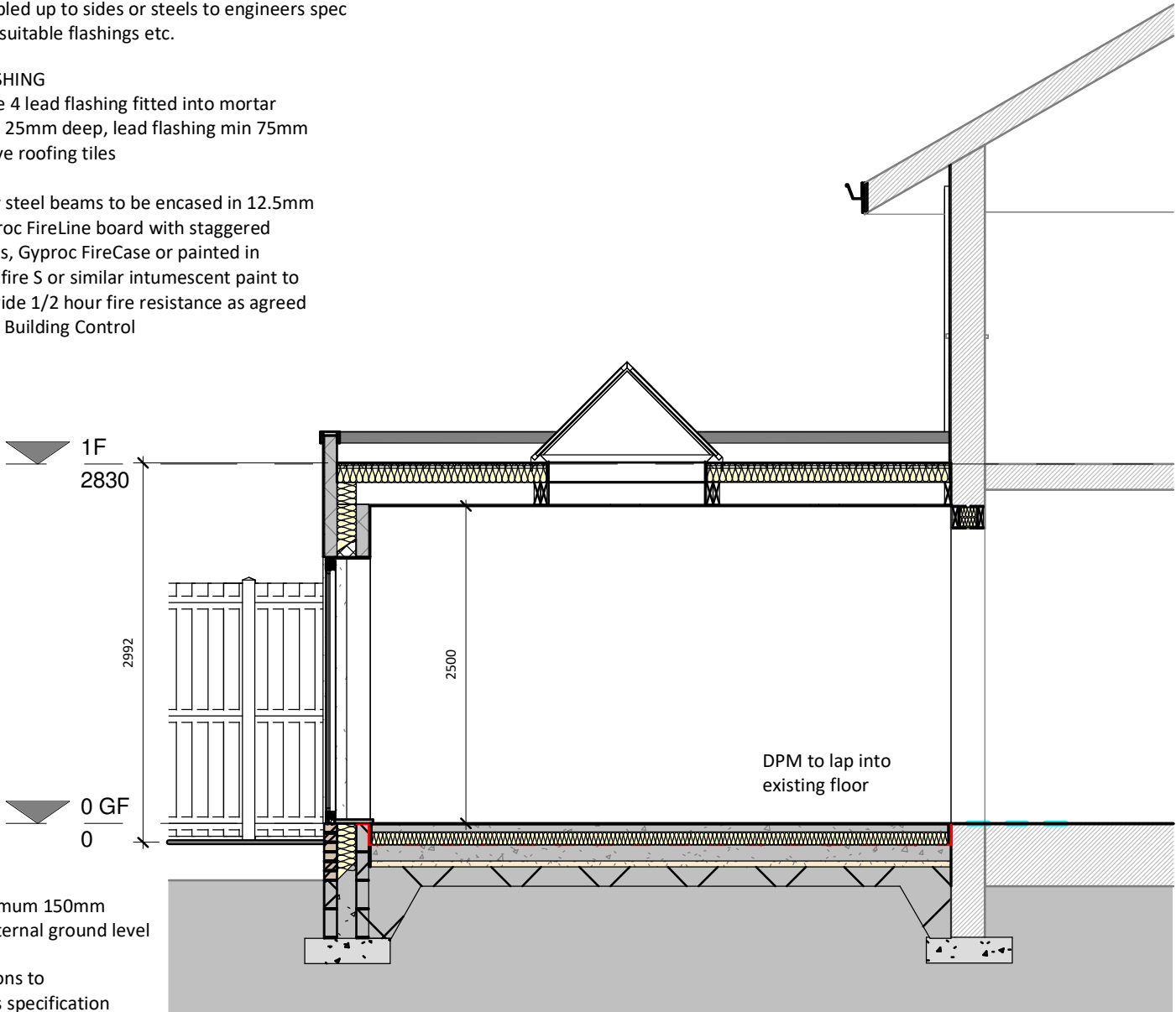
ROOFLIGHTS

Min U-value of 1.6 W/m²K.
Roof-lights to be double glazed with16mm argon gap and soft low-E glass to be fitted in accordance with manufacturer's instructions with rafters doubled up to sides or steels to engineers spec and suitable flashings etc.

FLASHING

Code 4 lead flashing fitted into mortar joint 25mm deep, lead flashing min 75mm above roofing tiles

New steel beams to be encased in 12.5mm Gyproc FireLine board with staggered joints, Gyproc FireCase or painted in Nullifire S or similar intumescent paint to provide 1/2 hour fire resistance as agreed with Building Control



FUTURE3
ARCHITECTURE

Contact:
07919222347
hello@future3.co.uk
155 Score Lane, Liverpool, L16 5EE
www.future3.co.uk

PROJECT
4 Greystone Road
Liverpool
L14 6UG

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CLIENT
Gavin Bradley

DRAWING
Section AA

STATUS

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