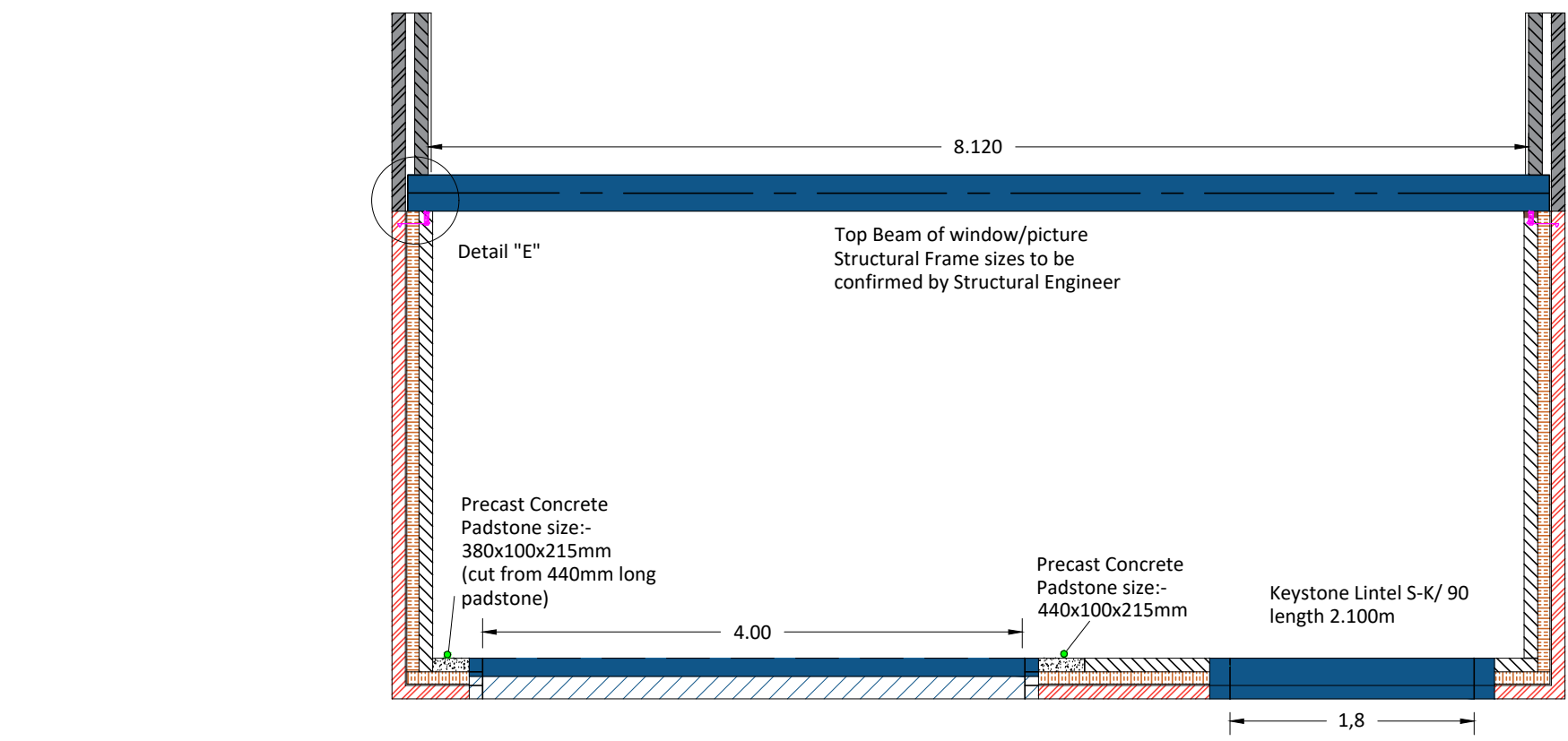


All Dimensions to be checked on site before work commences and the ordering of all materials

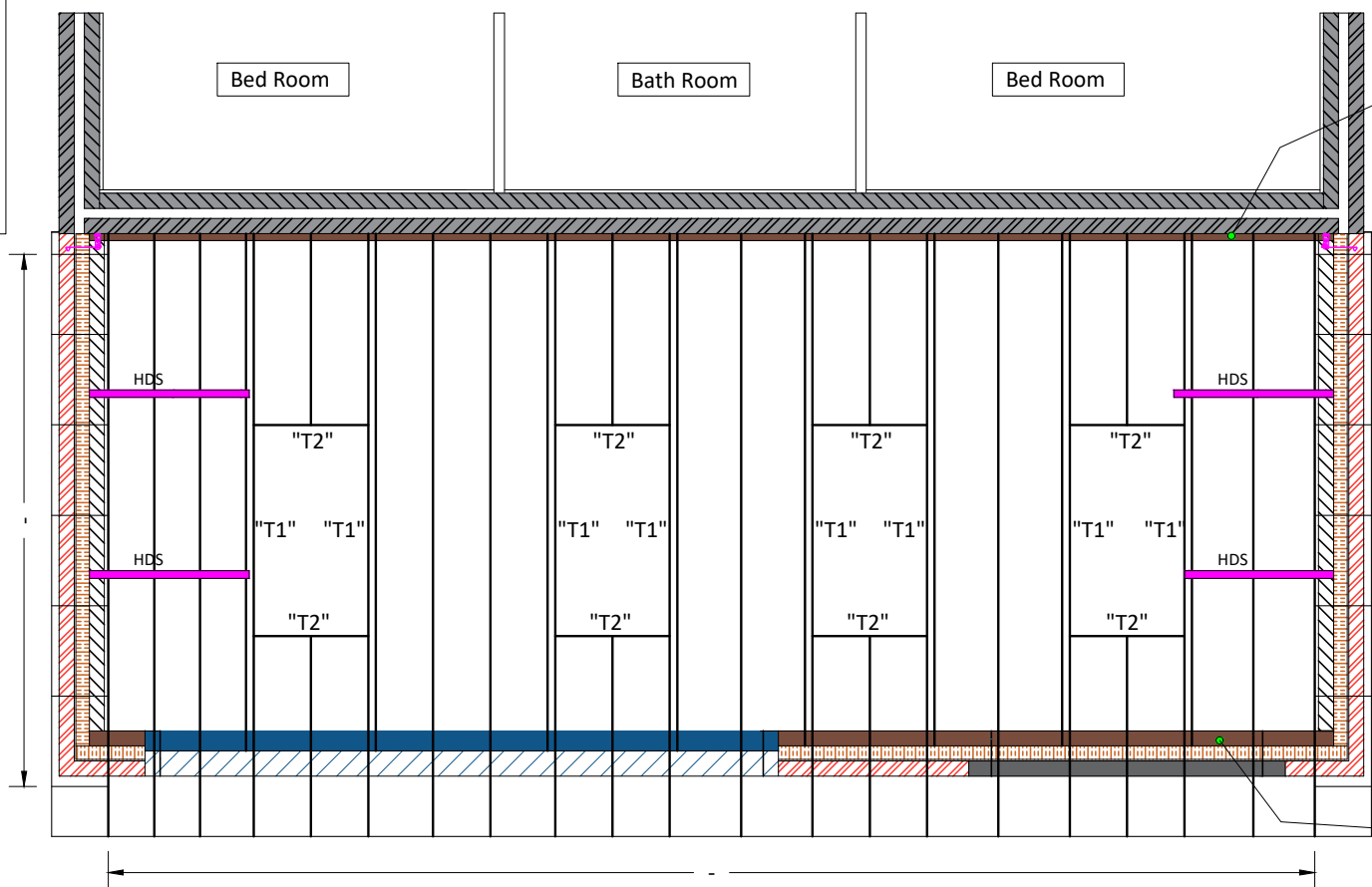


Proposed Layout of Structural Steel Beams & Lintels Scale1:50

Timber Trimmers:-
T1 trimmer 2 No. C24 47 x 170mm
T2 trimmer 1 No. C24 47 x 170mm
To form aperture for Velux Roof Light.
Using Expamet Bat M.S. Maxi Speedy Joist Hanger or similar to connect T2 to T1.
Provide 50mm maximum birds mouth to trimmer "T1" over timber wall plates & Steel Beam "B81"
Trimmer T1 to be bolted together using M12 Ø bolts @ 600mm c/c & 200mm from each end on C/L of timber.

Velux Roof Window :-
Ref:- MK 08 size :- 780 x1400mm
Weight of full unit:- 42.2Kg

Construct timber gable ladder framing using C16 timber 47x95mm secured to rafters and supported off cavity wall



Proposed Layout of Roof Timbers & Associated Members Scale1:50

Timber rafters C24 size:- 47 x 170mm @ 400mm c/c at a pitch of 15.0° (confirmed on site) seated on timber wall plates & on top of Beam :B1 with a maximum birds mouth of 50mm over each and secured to both timber wall plates and to timber within web of Beam B1 using 2 No Simpson Strong Tie A35E bracket (or similar mechanical fixing) to each rafter .

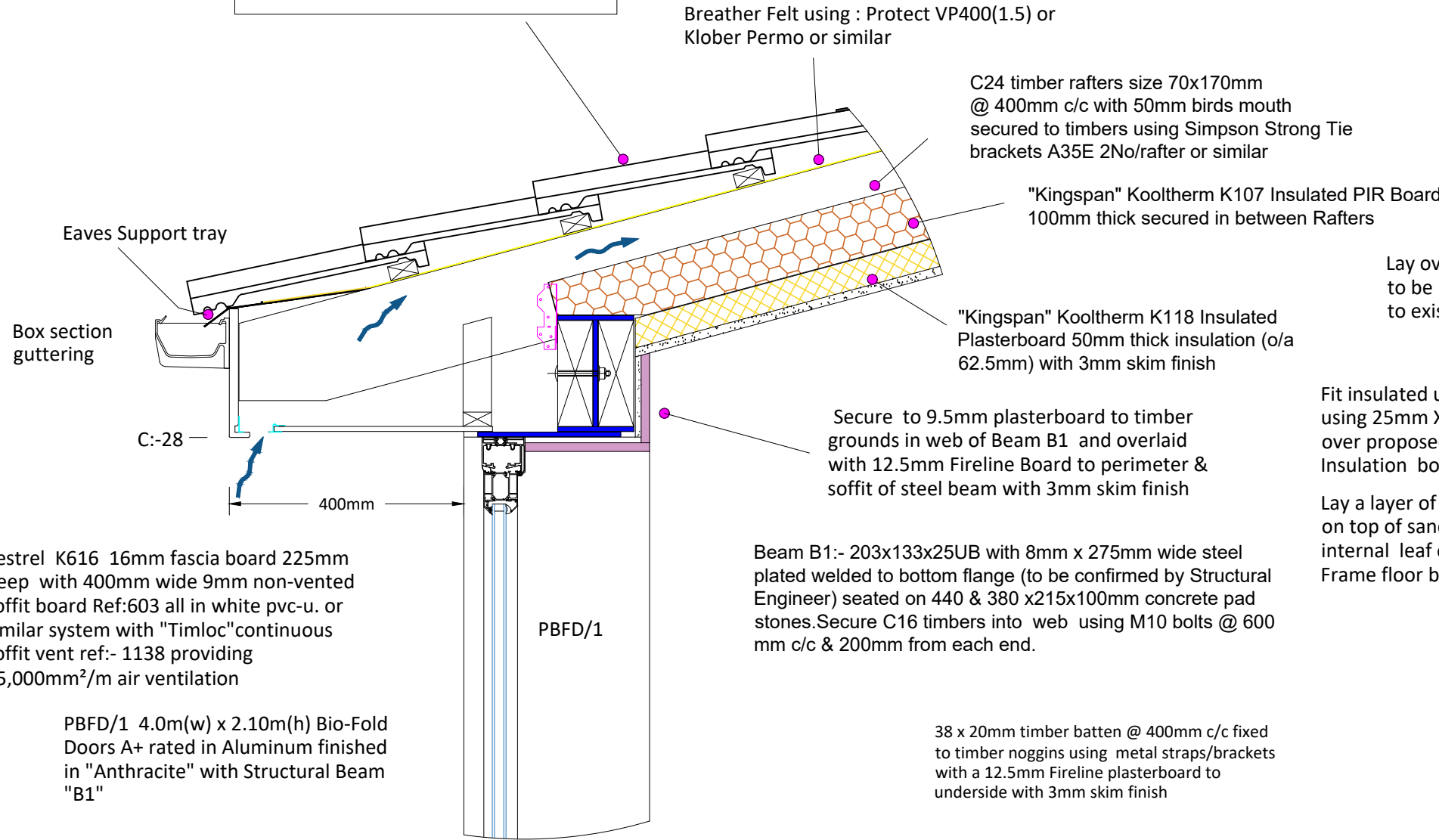
Timber wall plate C16 section 195 x 47mm to be bolted back into proposed & existing brickwork using 12mm Ø 120mm long anchor bolts @ 450mm c/c . End of wall plate to be supported off cavity wall inner leaf.

Construct timber gable ladder framing using C16 timber 47x95mm secured to rafters and supported off cavity wall

HD Restraining straps 27.5mm x 4mm length 1000mm bent once @ 1200mm max c/c fixed over 3No rafters with 47mm x 72mm timber noggins fixed between rafters. End of strap returned into cavity (HDS)

Lay / bed on internal cavity wall C16 R/S timber wall plate section 72 x 95 mm and fix HD restraining strap bent once section 27.5mm x 4mm x 1000mm long to top of wall plate and screwed to internal block work @ 1200mm c/c and fitted either side of each opening 200mm in from jamb opening

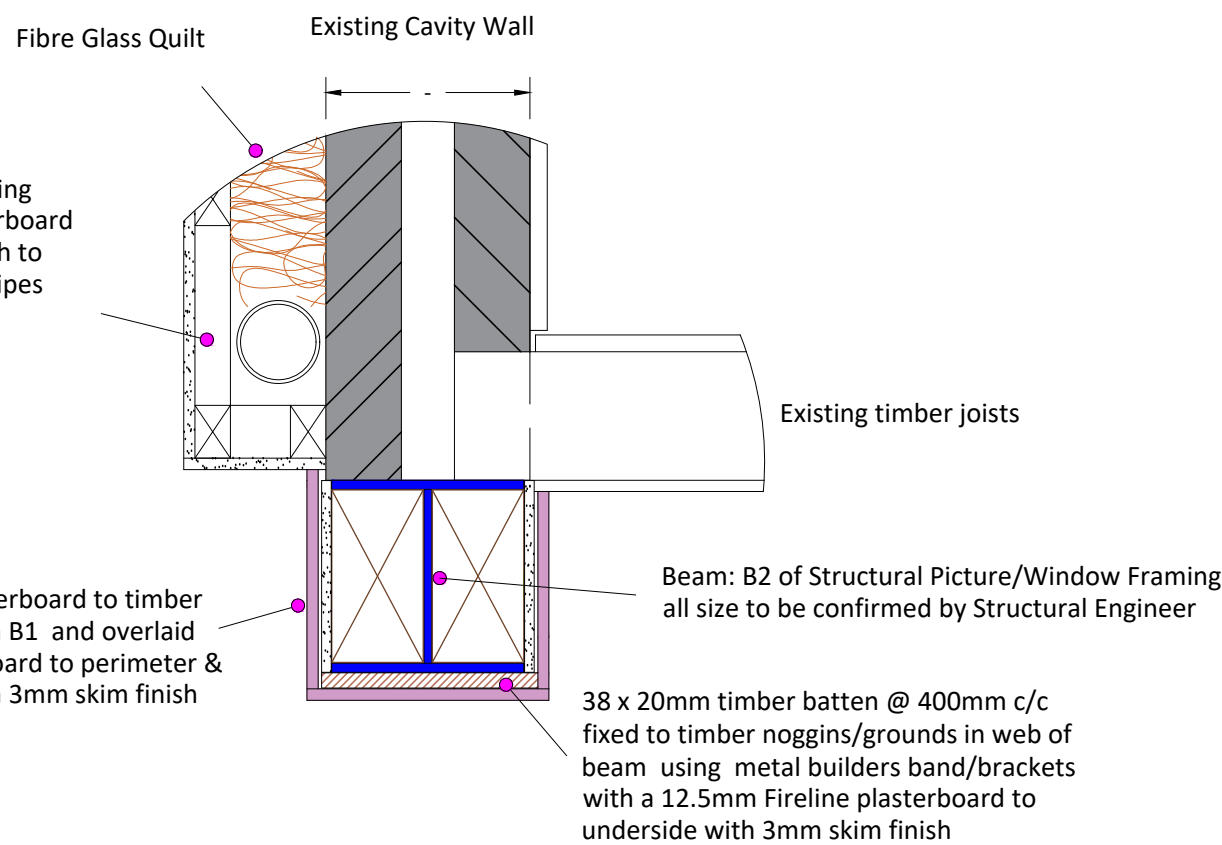
"Redland" Double Pantile or Grovebury Marley:- "Mendip" all suitable for low pitched roofs of 15.0°



Detail "A" Scale1:5

Provide timber framing with 12.5mm plasterboard with 3mm skim finish to cover soil & waste pipes from Bath Room

Secure to 9.5mm plasterboard to timber grounds in web of Beam B1 and overlaid with 12.5mm Fireline Board to perimeter & soffit of steel beam with 3mm skim finish

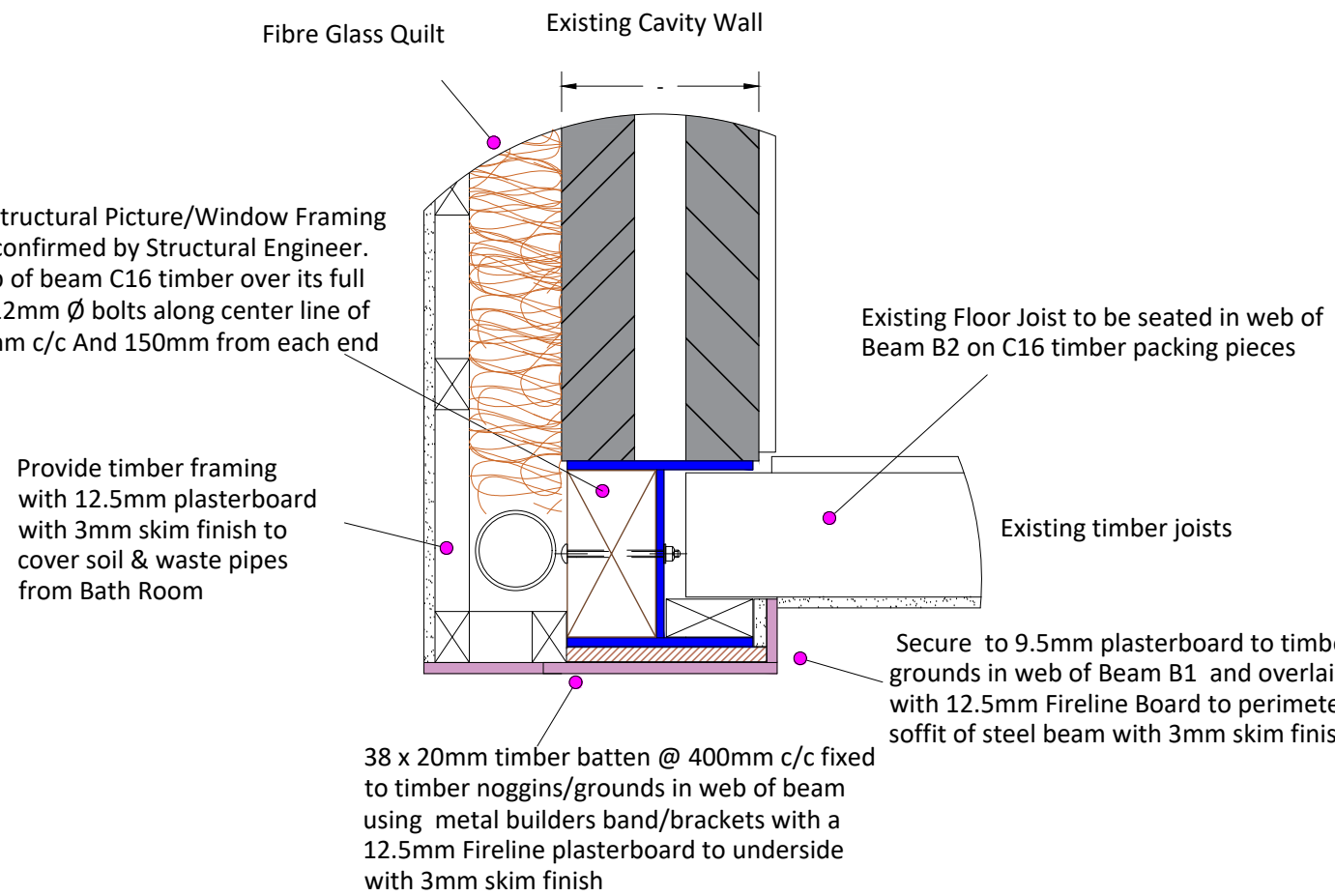


Detail "B" Option 1 Scale1:5

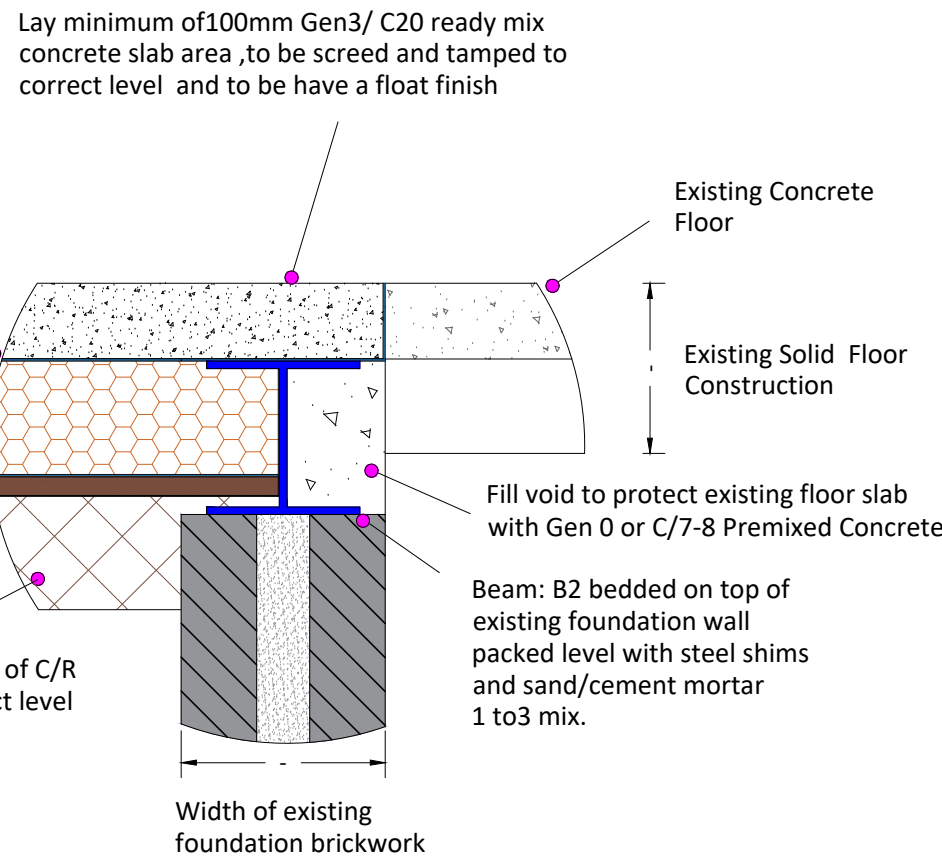
Beam: B2 of Structural Picture/Window Framing all size to be confirmed by Structural Engineer. Secure in web of beam C16 timber over its full length using 12mm Ø bolts along center line of beam @600mm c/c And 150mm from each end

Provide timber framing with 12.5mm plasterboard with 3mm skim finish to cover soil & waste pipes from Bath Room

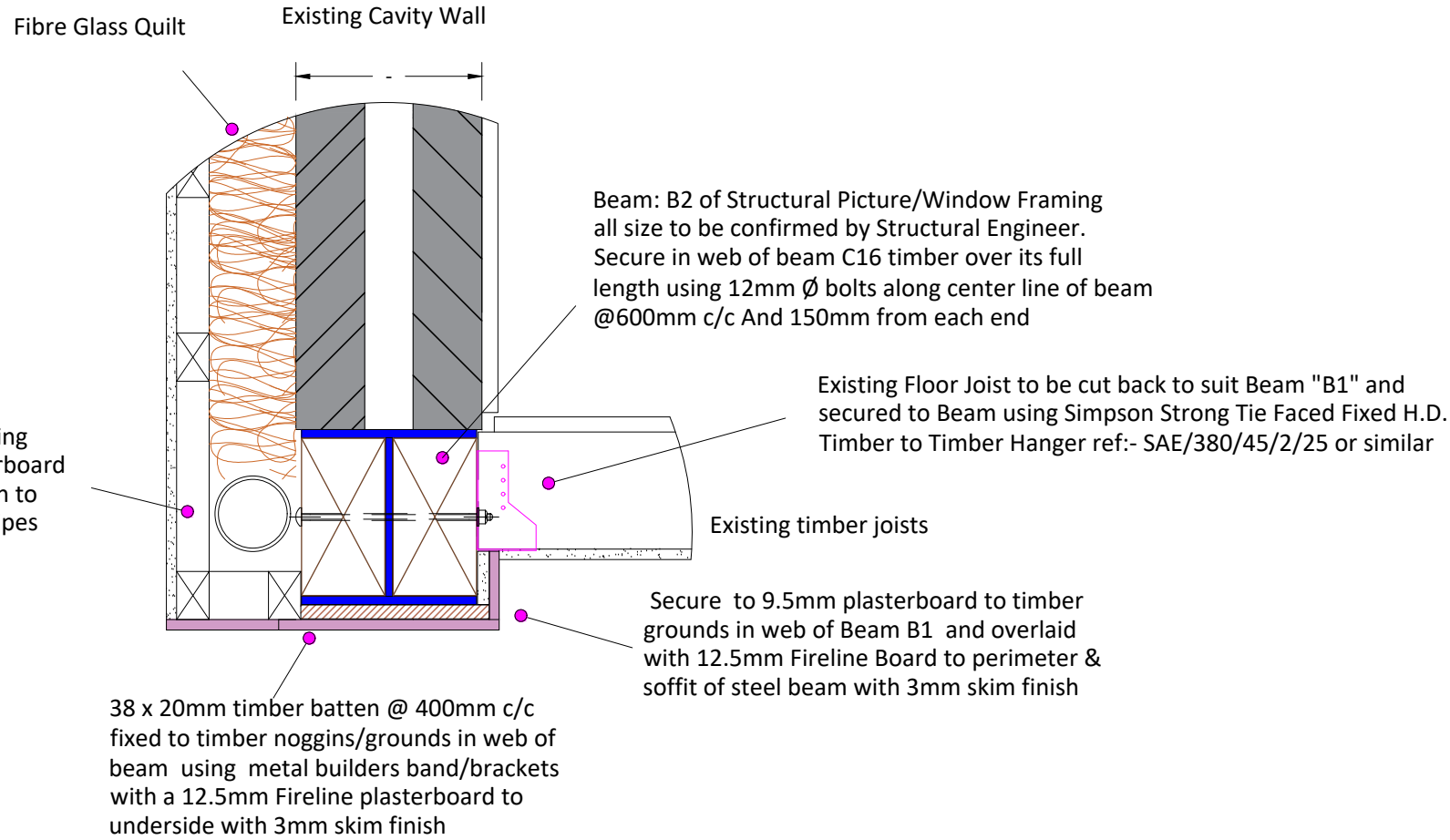
38 x 20mm timber batten @ 400mm c/c fixed to timber noggins/grounds in web of beam using metal builders band/brackets with a 12.5mm Fireline plasterboard to underside with 3mm skim finish



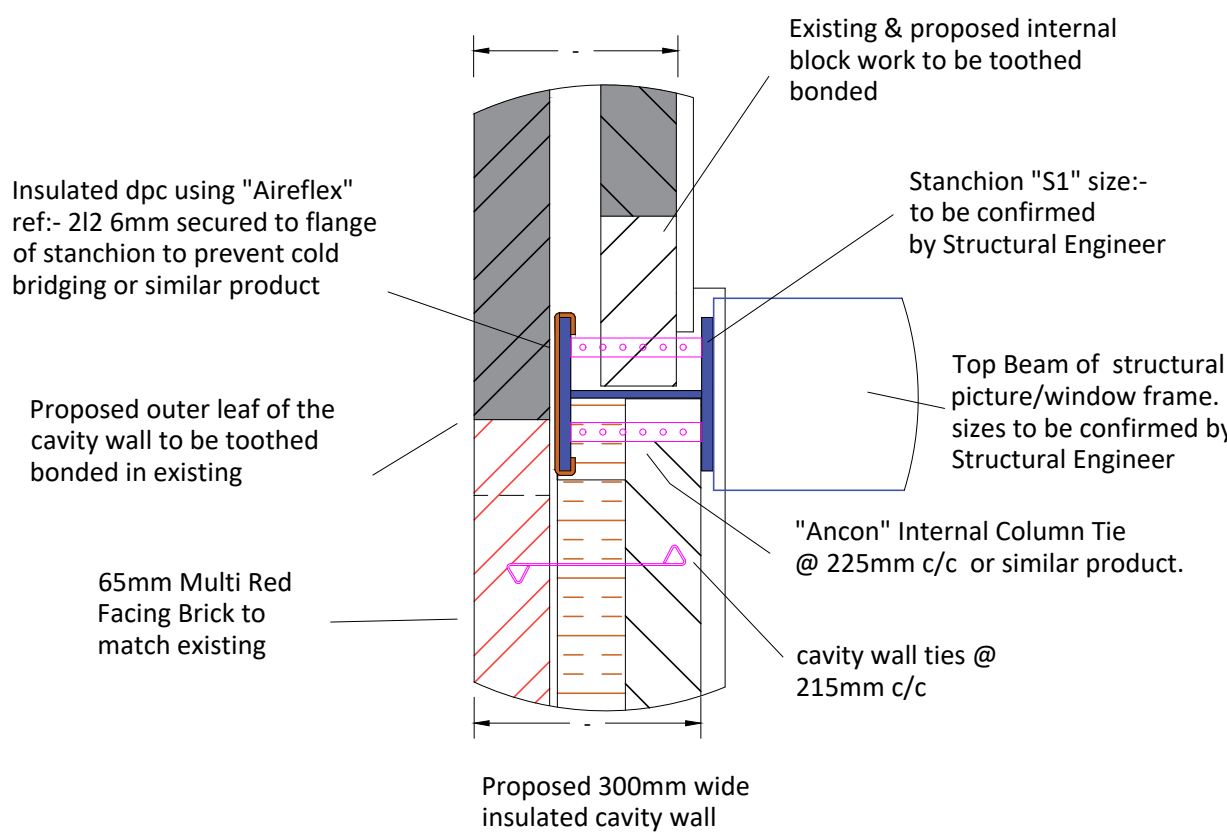
Detail "B" option 3 Scale1:5



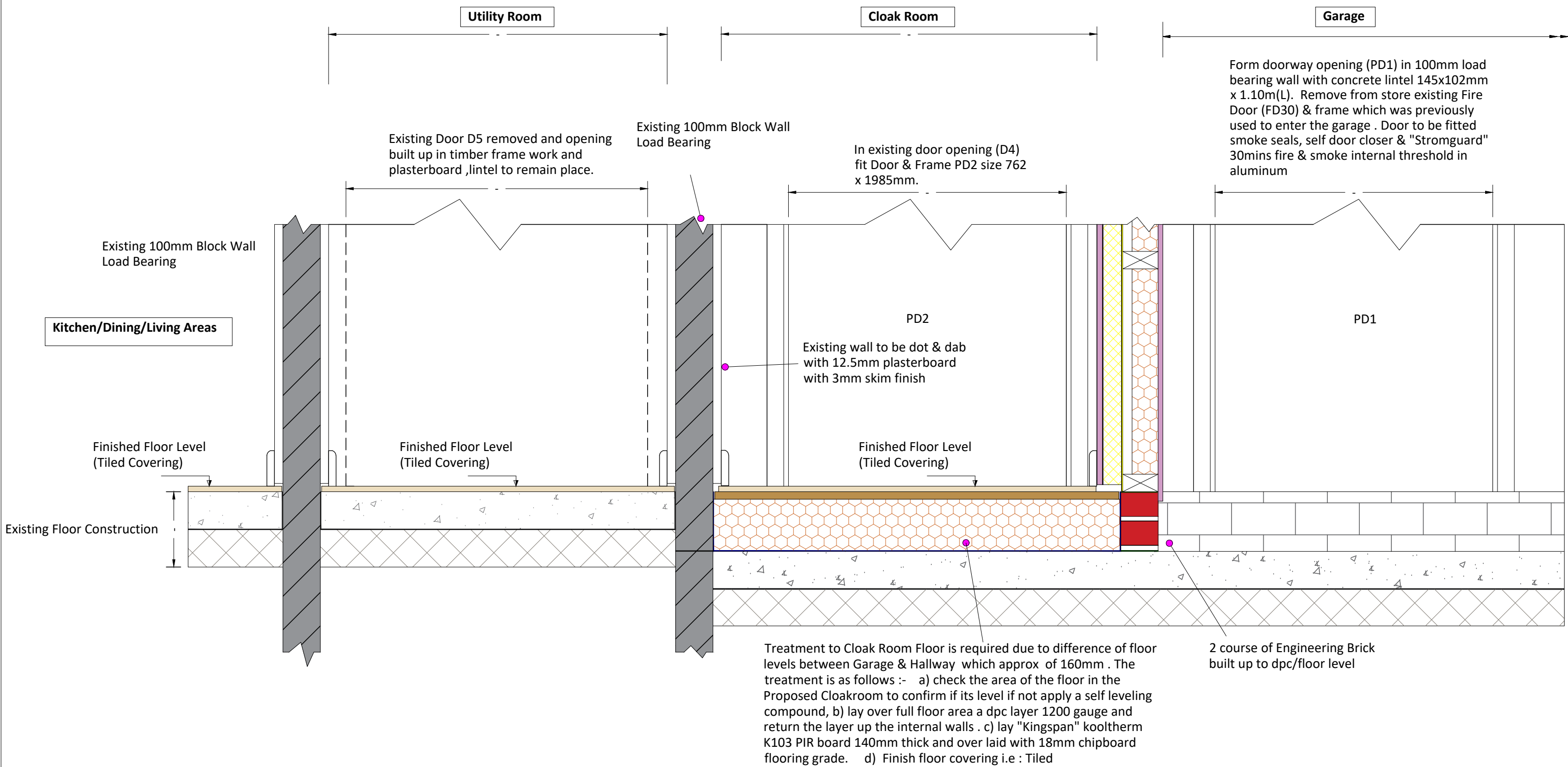
Detail "C" Scale1:5



Detail "B" option 2 Scale1:5



Detail "D" Scale1:5



Section "B-B" Scale1:5