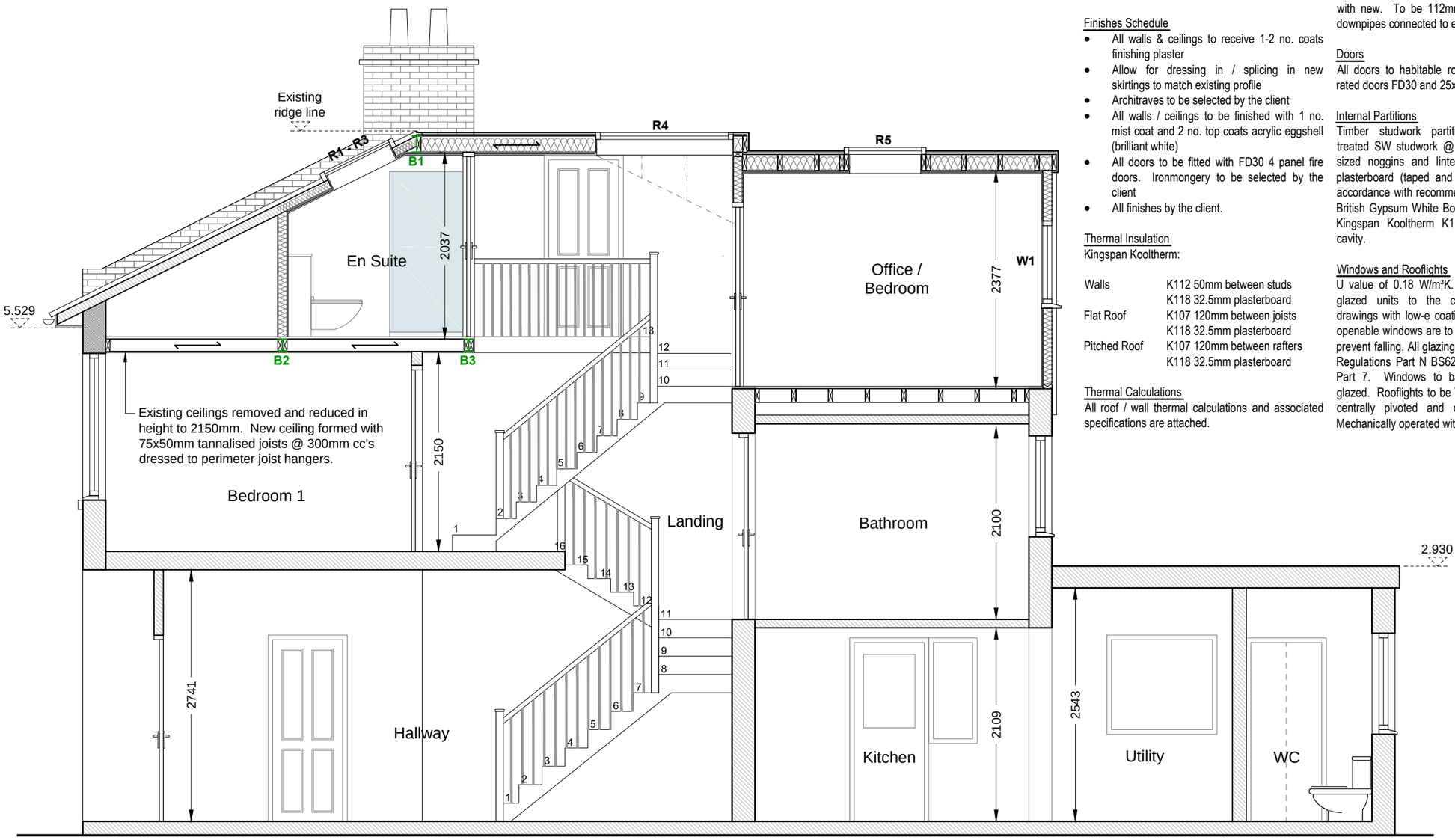
DO NOT SCALE FROM THIS DRAWING
All dimensions to be checked on site



Cross Section A-A - Proposed

1:50 0 1 2 3 4 5

Loft Conversion Extension

Dormer stud walls with slat hanging: U value 0.28 w/m²K. SW stud wall with 100x50mm studs @ 400mm cc's and 2 no. 100x50mm posts at each side of window opening. 2 no. 100x50 head / sole plates and intermediate noggins. Stud face externally clad with 12.5mm resin bonded plywood, one layer of Tyvec breathable felt, horizontal 25x38mm tannalised battens @ 300mm vertical cc's, covered with Acme single camber tiling.

Finishes Schedule

- All walls & ceilings to receive 1-2 no. coats finishing plaster
- Allow for dressing in / splicing in new skirtings to match existing profile
- Architraves to be selected by the client
- All walls / ceilings to be finished with 1 no. mist coat and 2 no. top coats acrylic eggshell (brilliant white)
- All doors to be fitted with FD30 4 panel fire doors. Ironmongery to be selected by the client
- All finishes by the client.

Thermal Insulation

Kingspan Kooltherm:

Walls	K112 50mm between studs
	K118 32.5mm plasterboard
Flat Roof	K107 120mm between joists
	K118 32.5mm plasterboard
Pitched Roof	K107 120mm between rafters
	K118 32.5mm plasterboard

Thermal Calculations

All roof / wall thermal calculations and associated specifications are attached.

Flat Roof

Construction to achieve U value of 0.18 W/m³K maximum. 2 no. layers of GRP laid by approved installer with all bespoke GRP trims laid onto 18mm WBP plyboard deck, onto 200x50mm SC joists @ 400mm cc's, and 100mm firrings fixed towards 85mm HR PVC gutters.

Gutters

All existing gutters to be removed and replaced with new. To be 112mm HR PVC with Ø62mm downpipes connected to existing drainage.

Doors

All doors to habitable rooms to be half hour fire rated doors FD30 and 25x38mm door stops.

Internal Partitions

Timber studwork partitions to be 100x50mm treated SW studwork @ 400mm cc's with similar sized noggins and lintels to openings, 12.5mm plasterboard (taped and jointed) to both sides in accordance with recommendations laid down in the British Gypsum White Book. Stud walls to receive Kingspan Kooltherm K112 50mm between stud cavity.

Windows and Rooflights

U value of 0.18 W/m³K. All new sealed, double glazed units to the configurations shown on drawings with low-e coating to match existing. All openable windows are to be fitted with restrictors to prevent falling. All glazing is to comply with Building Regulations Part N BS6206, BS6262 and BS8000 Part 7. Windows to bathrooms to be obscure glazed. Rooflights to be Velux GGL 660x1178mm, centrally pivoted and complete with flashings. Mechanically operated with remote control.

Background Ventilation

Provide trickle ventilation of 8000m³ to all new windows. All windows are openable to give purge ventilation.

Hot & Cold Water

Allow for extending the existing H&C water supply in copper suitably sized Ø15 / Ø22mm pipework with isolation valves. Wastes in Ø38 / Ø50mm plastic dressed to extended SVP.

Electrical Installation

The electrical installation is to be designed and installed by a specialist cub-contractor who is registered with NICEIC. The whole of the electrical installation will be installed and tested in accordance with the latest edition of the IEE Regulations and the requirements of the Regional Electricity company (REC). Switches to be centred 450mm FFL. Provide one light fitting that will only take a lamp with a luminous LED efficiency of 40 lumens per circuit watt. Switched socket outlets and downlight switches are to be positioned as agreed with the client.

Structural

All structural calculations for the loft extension as per CJD Structural Design.

Electrical Key

- Switch two way
- Switch
- Recessed LED spotlight
- Twin 13 amp
- Fused spur serving appliance
- Extract fan
- Smoke detector

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Project:	8 South Western Road, Twickenham, TW1 1LQ
Ref:	CPA/0821/8SouthWestern/XSecAA
Dwg. Title:	Cross Section A-A - Proposed
Date: 20.09.21	Scale: 1:50 @ A3
Rev.	-