

5.0 FLAT ROOF CONSTRUCTION:

BUILT UP MINERAL FELT

Average 13mm white spar chippings bedded in hot bitumen on 3 layers of roofing felt to BS 747 base layer type G3 felt to BS 747, laid in accordance with BS 8217: 1994 Code of Practice Thermaroot® TR24 is designed for use in conjunction with most partially bonded torch applied multi-layer bituminous waterproofing. When applying waterproofing, torch with minimum heat at all times. Torch the roll of waterproofing felt using flame/edge guards at all times. Do not directly apply the torch to the insulation facing. The waterproofing membrane should be installed in accordance with the membrane manufacturer's instruction, laid onto 140mm 150mm Kingspan Thermaroot® TR24, laid onto a VCL. For mechanically fixed applications, a minimum vapour control layer should consist of a 1000 gauge (250 micron) polythene sheet, with all joints lapped and then sealed with double-sided self adhesive tape. For applications where the insulation boards are to be bonded to the vapour control layer, a minimum vapour control layer should consist of a coated roofing felt complying with Type 3B to BS EN 13707: 2013 (Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing. Definitions and characteristics), or S1-P1 to BS 8747: 2007 (Reinforced bitumen membranes (RBMs) for roofing. Guide to selection and specification), or any appropriate metal-cored vapour control layer. Where the separate vapour control layer is to be bonded, allowance should be made for adequate bonding of the vapour control layer to the substrate, so as to provide a suitable surface upon which to lay the insulation boards and sufficient resistance to wind up-lift (see Wind Loading).

On 20mm OSB/WBP ply deck screwed to joists at 150mm c/c noggins to unsupported edges, on 175 x 50mm C24 sw joists @ 400mm c/c The number of mechanical fixings required to fix Kingspan Thermaroot® TR24 will vary with the geographical location of the building, the local topography, and the height and width of the roof concerned along with the deck type. A minimum of 4 fixings are required to secure 1.2 x 0.6 m boards of Kingspan Thermaroot® TR24 to the deck.

12.5mm vapour control plaster board, scrim and 3mm minimum plaster skim finish.

Achieves a 'U' value of 0.15W/m²K.

6.0 LINTELS AND BEAMS

To be proprietary galvanised steel lintels to BS5977:1983 in external cavity wall with flexible DPM to stop ends and weepholes at 450mm c/c min. 2 number per lintel. All lintels built into external walls to be insulated to achieve 1.2W/m². Minimum end bearing 150mm with DPM overlapping end of lintel by 150mm. Galvanised steel or pre-cast concrete lintels to be provided over openings in internal load bearing walls. For manufacturer and lintel type, refer to drawing. Steel beams to be provided in sizes and weights as described by Structural Engineer and as shown on Working Drawings.

Beams built into external brickwork to be coated with bituminous paint.

7.0 LATERAL SUPPORT AND STRUCTURAL FIXINGS

Galvanised mild steel anchor straps of cross-section 5 x 30mm to be provided at maximum 2.0m c/c.

Where roof joists run parallel with supported wall and wall excess 3.0 long. Straps to span and be fixed to at least 3 number joists and to turn down cavity by a minimum 100mm hard against face of inner skin.

Wall plates to be held down with galvanised m.s. straps 5 x 30 x 1000mm at maximum 2.0m c/c. Straps to be plugged and screwed to walls with 8 x 50 countersunk screws into solid blockwork, not joints.

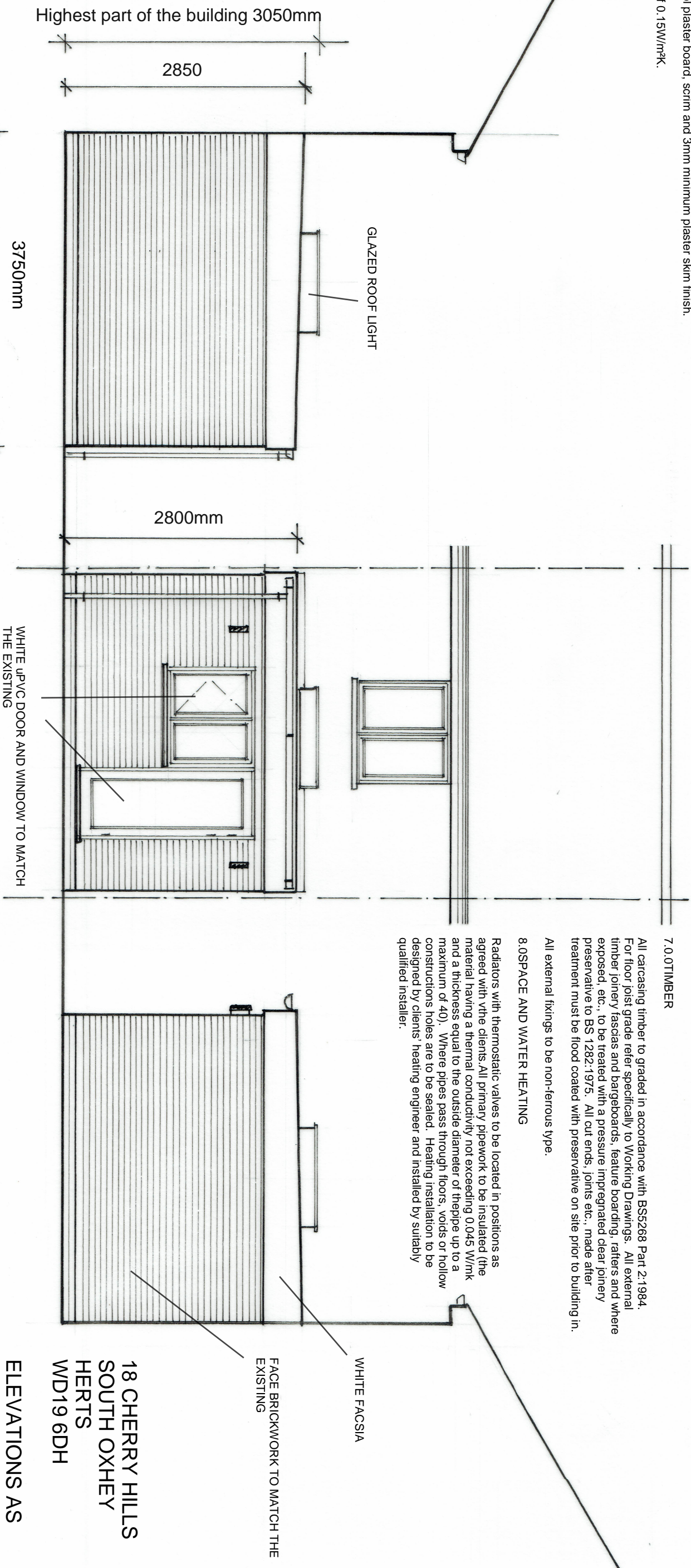
7.0.0 TIMBER

All carcassing timber to graded in accordance with BS5268 Part 2:1984. For floor joist grade refer specifically to Working Drawings. All external timber joinery fascias and bargeboards, feature boarding, rafters and where exposed, etc., to be treated with a pressure impregnated clear joinery preservative to BS 1282:1975. All cut ends, joints etc., made after treatment must be flood coated with preservative on site prior to building in.

All external fixings to be non-ferrous type.

8.0 SPACE AND WATER HEATING

Radiators with thermostatic valves to be located in positions as agreed with the clients. All primary pipework to be insulated (the material having a thermal conductivity not exceeding 0.045 W/mk and a thickness equal to the outside diameter of the pipe up to a maximum of 40). Where pipes pass through floors, voids or hollow constructions holes are to be sealed. Heating installation to be designed by clients' heating engineer and installed by suitably qualified installer.



FLANK ELEVATION

REAR ELEVATION

FLANK ELEVATION

WHITE uPVC DOOR AND WINDOW TO MATCH THE EXISTING

GLAZED ROOF LIGHT

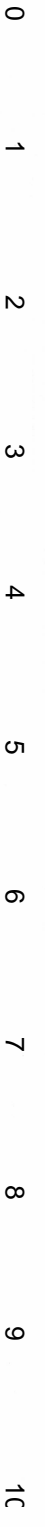
WHITE FACZIA

FACE BRICKWORK TO MATCH THE EXISTING

18 CHERRY HILLS
SOUTH OXHEY
HERTS
WD19 6DH

ELEVATIONS AS PROPOSED

Drawing No-03



1-50 SCALE