



Flat Roof (Warm Roof Construction)

To achieve U value of 0.18 W/m²K

Poly Roof 185 roof covering applied to 18mm Metsa Wood plywood t laid over 120mm Kingspan Therma roof TR26 insulation. Plywood to be fixed at edges to 75 x 120mm timber trim as per drawing DAL2023/01-A104 detail 2. Roof covering be finished around perimeter with pre-formed trims fitted in accordance with manufacturers details.

Kingspan insulation to be laid on 1000 gauge visqueen vapo control membrane laid on 12mm plywood decking securely fixed with galvanized steel fixings to new 47 x 170mm C16 timber joist laid at 400mm centres. Tilting fillets fixed to top side of new joists to provide minimum 1 in 80 fall across depth of roof. New joists to be fixed to wall plate (to top of blockwork internal walls) with galvanized brackets and supported along existing wall on 47 x 170mm wall plate bolt to new steel beam with M12 anchor bolts at max 450 mm centres. Timber joists to be fixed to new wall plate with galvanized steel joist hangers at 400mm centres.

To achieve minimum U value of 0.27W/m²K. Common brickwork cavity wall, K value 0.51 or lower. Minimum 50mm clear residual cavity to be maintained with 50mm Kingspan Cooltherm K8 rigid insulation board fixed to internal leaf with proprietary wall ties. Internal leaf to be constructed in Thermolite turbo block, K value 0.11W/m²K or lower. Internal finish to be 12.5mm plasterboard on dabs with skim finish.

Min. 150mm min thick sand blinded hardcore compacted on site sand blinded to accept 1200 gauge damp-proof/radon membrane. 100mm Kingspan Therma floor TF70 ridged box insulation laid on dpm, incorporating separating membrane top of insulation. 100mm insitu concrete floor slab, C30 mix incorporating A192 mesh reinforcement with minimum 25mm cover all round. Allow for 50mm screed finish to insitu slab

Provide 225mm x 600mm concrete foundation, minimum 750mm below ground level. Exact depth to be agreed on site the Building Control Officer to suit site conditions. Ensure foundations are stepped below invert level of any drains to pass across site. Base of foundations supporting internal 100mm walls to be min 600mm below ground level. **Note:** should adverse soil conditions be found or any major tree roots in excavations, the Building Control Officer is to be contacted the advice of a structural engineer should be sought.

PROPOSED Sectional Elevation BB.

Scale 1:50 @ A3.

CLIENT:	Mr & Mrs Broadstock
REF:	-
PROJECT NO:	DT2023/01
DATE:	Jan 2023
CAD DWG FILE:	77 Sandon Road
DRAWN BY:	David Taylor
CHK'D BY:	-

Project	Two storey extension.
Address	77 Sandon Road Birkdale, Southport Merseyside, PR8 4QD
Drawing	DT2023/01-A104
Scale	

Revisions	

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