

23-138 The Mucky Duck

Old House Construction Notes

1. Extension External Walls

TECU-Patina pre-patinated copper shingle cladding fixed on 50 x 38mm SW battens, to allow GF water proofing detail. Splay detail to be formed with timber fillets. Battens fixed to 100mm Blockwork. 50mm cavity, partial fill with 100mm EcoTherm EcoCavity PIR insulation. 100mm Blockwork inner leaf to Structural Engineer's approval. 12.5mm Gyproc Wallboard on adhesive dabs.

To achieve 0.16W/m²K U-Value

2. Extension External Floor

75mm sand/cement screed on min. 500g polythene vapour control layer, on 150mm rigid insulation to meet Part L requirements on 2000g DPM laid over PCC beam and block system as per Structural Engineer's specification. Min. 250mm void below the PCC beams.

To achieve 0.12W/m²K U-Value

3. Extension External Roof

Sedum Roof Construction: BauderEXTENSIVE LIGHTWEIGHTsedum system. Comprising 28mm BauderGREEN XF 301 Sedum Blanket on 20mm Bauder Green SDF drainage and protection mat. Edged with 40mm BauderGreen AL 40 drainage trim. On Bauder's underlying waterproofing system, comprised of:

Bauderflex Green System. BauderPLANT E 42 Bitumin Capping Sheet on BauderTEC Sprint DUO Underlayer. BauderPIR FA G16 Tapered Insulation, average thickness 160mm, to create required multi-directional falls. BauderTEC KSD FBS Air and Vapour Control Layer on 18mm Plywood. 220mm metal web flat roof joist structure, to Structural Engineer's Specification, with 15mm plasterboard finish.

To achieve 0.13W/m²K U-Value

4. Extension Doors and Windows

All new windows and doors to be Rationel AuraPlus, which achieve 1.29W/m²K U-Value

5. Replacement Windows and Doors

A mixture of Rationel FormaPlus and Rationel AuraPlus Windows will be used, which achieve 1.28W/m²K and 1.29W/m²K U-Values respectively.

6. New Internal Walls

Internal walls have been specified using the British Gypsum White Book.

System A046005 (EN) - 141mm Overall

75 x 38mm Timber Stud (CLS) @ max. 600mm centres with Gypframe RB1 Resilient Bar at 600mm centres to one side. 50mm Isover Acoustic Partition Roll (APR 1200) in cavity. 2no. layers 12.5mm Gyproc SoundBloc on each side.

To achieve 60mins fire integrity and 55dB sound insulation

Systems A046005 MR2 (EN) and A046005 MR1 (EN) achieve the same fire integrity and sound insulation, but one layer of SoundBloc is replaced with 1no. layer of Gyproc SoundBloc MR 12.5mm to one or both sides, depending on wet room location.

System A026010 MR1 (EN) - 93mm Overall

63 x 38mm Timber Stud (CLS) @ max. 600mm centres with 25mm Isover Acoustic Partition Roll (APR 1200) in cavity. 1no. layers 15mm Gyproc Wallboard on dry side, 1no. layer Gyproc Moisture Resistant 15mm on wet side.

To achieve 30mins fire integrity and 40dB sound insulation