

Roof Layout

plan area x 1/cos pitch /9m2 x 650mm2/3100(63mm dia pipe) = number required 1218 x 1/cos 29 deg / 9 x 650 / 3100 = 32 number required minimum

igotimes Copyright: do not reproduce without the consent of Terence C Burton MCIAT. All dimensions to be checked on site.

Section 9.0 - ROOF: (MODERATE OR LESS ZONES OF EXPOSURE)

9.1.2 WALL PLATE: 50mm x 100mm SW fully anchored to timber frame below. Joints in wall plate to be half

9.2 FELT, VAPOUR PERMEABLE UNDERLAY

Kingspan Nilvent or sim approved unsupported vapour permeable underlay with minimum 20mm gap to top of any insulation to allow roof underlay to drape below tiling battens. Roof non-ventilated cold-pitched roof system in accordance with BBA certificate 04/4161. Horizontal laps of 100mm min & vertical laps of 150mm min. Where pipes pass through felt cut a X with cuts at 45 Deg to the roof slope, tongues turned upright around the pipe & wrap with sealant bandage to provide a watertight joint. Provide Tyvek or sim. approved eaves carrier eaves detail all in accordance with Tyvek recommendations.

In all instances roof underlay at eaves level should be a minimum Type 5U quality felt suitable for use as an exposed roof underlay felt dressed into the gutter.

9.8 ROOF FINISH

9.8.2 Redland Cambrian recycled welsh slates 300 x 336mm to meet the requirements of BS 5543;2003 & BBA Certificate 87/1907 for specified pitch (min 15 deg @ 75mm headlap & 25 degrees at 50mm headlap, min gauge 210mm max gauge 250mm) as defined by manufacturer. Installation and headlap to be in accordance with BS 5534 and BS 8000 on treated

38mm x 25mm (450mm centre rafters) battens (of size as specified by tile manufacturer) Note battens to be stamped and graded, on vapour permeable underlay (or similar approved) to BS 747 laid to fall to gutters. Tiles nailed & fixed to suite local exposure rating using 30 x 6.25mm ring shanked nails all in accordance with manufacturers recommendations and requirements, broken bonded utilising standard,slates, slate-and-a-halves, all slates twice nailed &once clipped

9.9 FLASHINGS: Code 4 lead and soakers in code 3 lead .All leadwork to comply with BS1182: 1982 & in accordance with the Lead Development Associations guide for good practice - LEAD SHEET IN BUILDING. All leadwork on completion to be wiped with 2 coats patination oil

9.10 LOFT HATCHES:

Proprietary insulated and sealed roof space access traps of suitable size provided at location shown on layout drawing. Where site constructed provide insulated backing. Min size 600 x 550mm. hold down bolts & draught stripping. 75 x 50 pre-treated SW trim between ceiling joists.

9.12.1 PITCHED VALLEY GUTTERS - GRP

Preformed GRP proprietary units min 350mm wide suitable for roof pitches above 22 degrees & tile or slate roof finish. Integral water check ribs & mortar adhesion strips to sides all in accordance with BS5534 pt1:1990 & BS8000 pt 6 type VG as manufactured by messrs Cavity Trays or similar approved. Installed all in accordance with manufacturers recommendations and requirements.

9.13 EAVES BOARDS & SOFFITS

Pre-treated SW packing to rafter ends to give true line, Caradon Celuform or sim. app. Supaliner / multi purpose white PVC eaves and Soffite boards installed complete with all accessories. Soffite boards fixed to 50 x 38mm pre-treated SW bearers plugged & screwed at 600mm centres to brickwork.

Half round ridge tile dry bedded onto upvc profile filler unit utilising st st. clampng plate & 100mm st.st.wood screw with neoprene washer & foam grommet through tile and into st.st ridge batten fixing strap fixed at each rafter position onto 2 x 38 x 25mm sw battens pre-nailed together first tile batten 50 x25mm set 30mm down from apex all in accordance with manufacturers recommendations & requirements. Roof underlay to overlap adjacent roof slope by min 150mm. High-level ridge ventilators for SVP connected via flexible pipe to vent duct as required.

Overhanging verge bedded in 1:3 cement on sloping slate or Cape Supalux undercloak fixed below tiling battens. 38-50mm overhang. Mortar pointing to be struck vertical.

9.17 LEADWORK

All details to be in accordance with lead development association good practice Guide. Lead Flashings code 4 lead, pointed and lead wedged into 35mm raked joint. Lead flashings dressed down over code 4 lead soakers at roof/wall junctions, or 150mm over tiles where a lean-to roof. On completion all leadwork to be Wiped with 2 coats patination

> Terence C. Burton MCIAT CHARTERED ARCHITECTURAL TECHNOLOGIST

MONKS GREEN FARM, MONKS GREEN LANE

BRICKENDON, HERTS. SG13 8QL DRAWINGTITLE

SCALE OCT 2011 1:100 DRAWING NUMBER

OVERAL ROOF LAYOUT

11/MGF/SC/20

HERTS. CM23 4GH TELEPHONE / FAX 01279 304363

8 WHEEL WRIGHTS CLOSE BISHOPS STORTFORD