

ROOF FINISH
Concrete Interlocking Roof tiles to match existing, fixed in accordance with manufacturers instructions and in accordance with BS 5534: Parts 1 and 2. Set out to give true lines and regular appearance, fitting neatly at all edges, junctions and features. Fix tile roofing to make the building sound and watertight at the earliest opportunity. Repair any defects as quickly as practicable to minimise damage and nuisance. Keep gutters and pipes free of debris and clean out at completion. Provide 50x25 preservative treated timber battens. Tiling battens should be not less than 1.2m long and continuous over at least 3 trusses. They should be fixed to every rafter member which they cross, or on which they are joined, with nails in accordance with BS5534: Part 1. The ends of the battens should be sawn square and butt jointed centrally on a rafter member so that adequate bearing and nailing can be provided for each end of each batten. Butt joints in battens should be arranged so that not more than one batten in four is joined on any one rafter. Generally all tiles at perimeter of roof to be clipped and nailed. Use Code 4 Lead flashing to all abutments with min. 75mm upstand.

ROOF INSULATION
The whole area of the ceiling to be insulated with two layers of Crown Wool Mineral Fibre Insulation or equal approved of a total thickness 300mm to achieve a U value of 0.16w/m²K. Width of first layer of insulation to be appropriate to the joist spacings and of a thickness equal to joist depth (100mm). The insulation to be laid between the joists to finish over the wall plate on external walls and pushed up tight to roofing membrane. The second layer (200mm) of Crown Wool to be laid at right angles to the first layer. All joints between the rolls of insulation to be close butted.

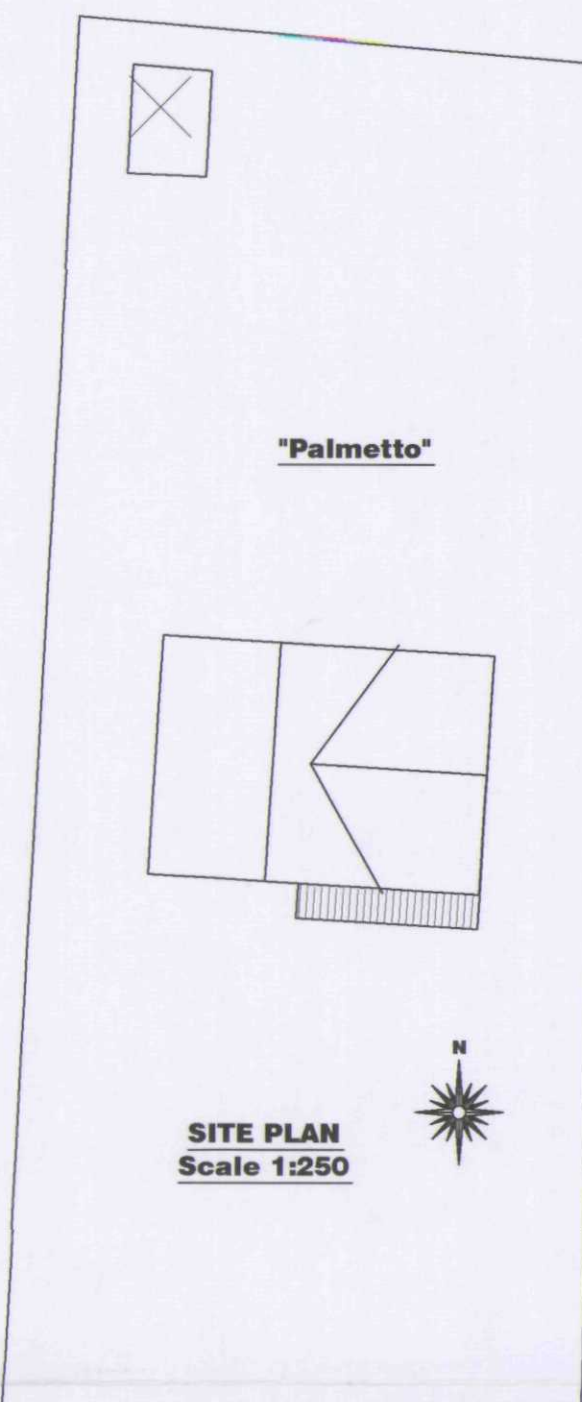
MASONRY WALL CONNECTORS
Provide Simpson Strong - Tie or similar approved wall connectors to connect new & existing brick / blockwork. Use all specified fasteners. Fasteners must be spaced evenly, unless otherwise specified, and installed into the existing bricks or block and not into mortar joints. Insert wall ties provided at maximum 300 mm centres, bedding the ties into the mortar joints. Detailed site work instructions are provided with each wall connector system and must be adhered to at all times. In exposed locations it may be necessary to incorporate additional protection, for example the insertion of a vertical dpc.

ROOF VENTILATION
Install Tyvek® or similar approved Breathable Membrane in accordance with manufacturers instructions which are briefly described below & BBA certificate 99/3635 (fourth issue) breather membranes in non-ventilated pitched roofs of any plan, any shape or any size under all types of roof coverings including tight jointed and fully interlocking tiles and synthetic slates. Installing Tyvek® underlay in accordance with the above certificate will enable a roof to meet all the requirements of the Building Regulations.
Installation Guidelines:
Tyvek® SUPRO should be installed with min. 150mm overlaps as a standard bituminous felt underlay and secured with stainless steel staples or large headed galvanised clout nails.
Eaves:
There is no need to provide any vents into the loft at eaves, because a Tyvek® non-ventilated roof system does not rely upon air movement beneath the membrane to avoid damage by condensation. To avoid water ponding behind the fascia of closed eaves and to prevent prolonged exposure of the membrane to ultra-violet radiation, use a Tyvek® Eaves Carrier. Stop the membrane short of the fascia and lap it onto the Eaves Carrier. Pack closed eaves with fibrous insulation to reduce thermal bridging.
Verge detail:
Lap the Tyvek® underlay 50mm onto the gable or flying rafter.
Ridge/hip detail:
Extend the Tyvek® underlay 150mm from each slope and overlap it at the ridge/hip line. There is no need to provide vents at the ridge.
Valley detail:
Extend the Tyvek® underlay from each slope by 150mm beyond the valley centre line and seal the lap using Tyvek® Butyl Tape to form a watertight seal.
Abutments:
Turn up the Tyvek® underlay beneath flashings not less than 50mm.
Penetrations:
Seal around all penetrations using Tyvek® Butyl Tape.



LOCATION PLAN
Scale 1:1250

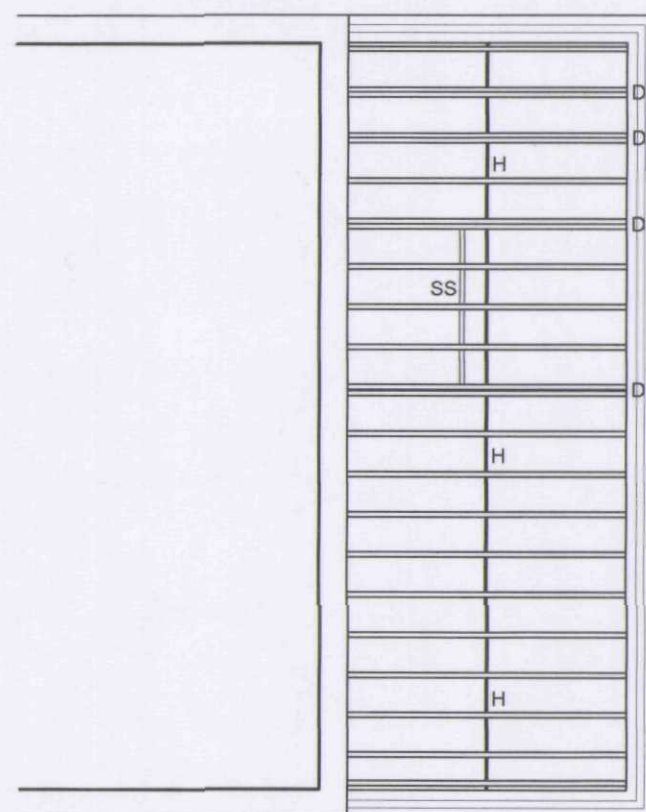
NOTE: MANUFACTURER'S DETAILS & CALCULATIONS TO BE FORWARDED TO SHDC'S BUILDING CONTROL OFFICER FOR APPROVAL AT LEAST 21 DAYS PRIOR TO FIXING ON SITE



SITE PLAN
Scale 1:250

Provide solid blocking at the ends of herringbone strutting and under straps between last joist and wall.

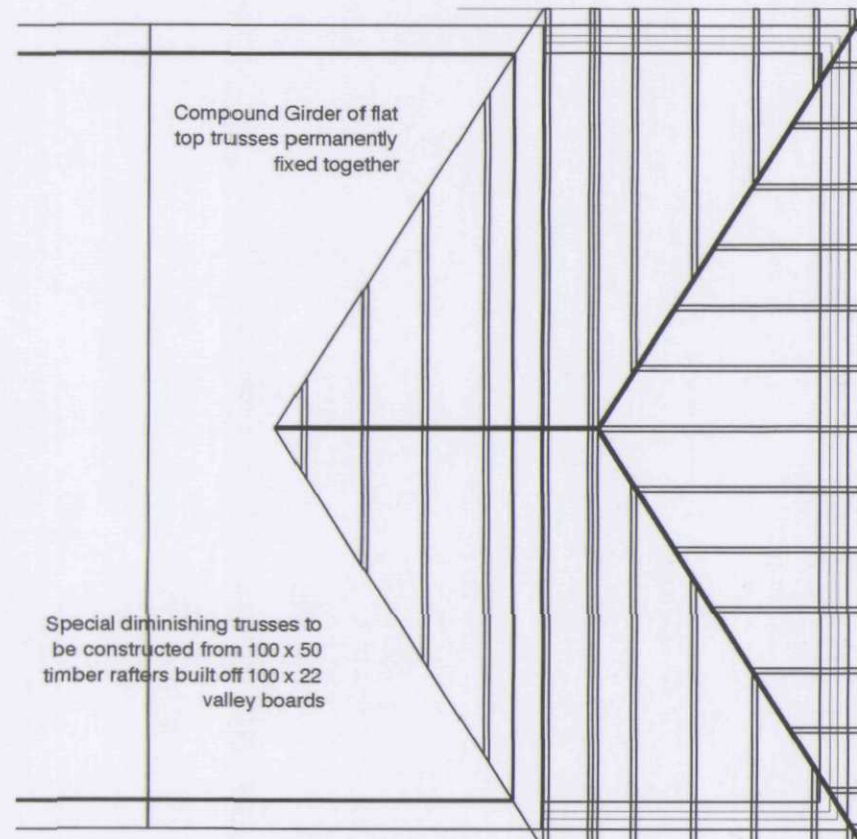
30x5 m/s anchor straps (S) @ 2m ctrs with solid strutting beneath. Notch straps into minimum 3no. joists and fix with two nails.



First and last joist to be clear of wall by 25-50mm.

ALL TIMBER TO BE SC3 GRADE, DRY GRADED TO BS4976 AND MARKED "DRY" OR "KD"

PROPOSED JOIST PLAN
Scale 1:75



Note: Provide 50x50 timber noggings for partition head fixing and pendant light fixings. Position of light fixings to be agreed on site with client.

ROOF PLAN
Not to Scale

Flat top trusses to be supplied with extended rafters for site cutting by others to suit Hip Rafter. Note: The horizontal top chords to the flat top trusses are to be well braced together to resist lateral buckling.

All 25x100 diagonal and longitudinal wind bracing, and ceiling tie bracing to be free from all major defects and any weak points and fixed all in accordance with manufacturers details. Lap joints (if required) to be taken over 2no. trusses all in accordance with BS5268 Part 3 - 1985. Bracing to be fixed with 2no. 3.35 x 65mm galvanised round wire nails at each cross over and to firmly butt against walls.

Hip Rafters to be birdsmouthed over Pre Fabricated Compound Girder of Flat Top trusses and wallplate

30x5 m/s straps (S) over 2no. trusses at max 2m ctrs to gable ends and ceiling level. At least 1no. gable strap to be within 500mm of ridge. Provide solid noggings under each strap.

Soffit and fascia profile to clients requirements fitted strictly in accordance with manufacturer's recommendations

Trussed Rafters to main roof to be at max. 600mm ctrs. Roof construction to be designed strictly in accordance with BS5268 Part 3 1985 and to specialist manufacturers design drawings. Calculations to be submitted to the L.A. building inspectors approval prior to any materials being placed on order.

Infill Jack Rafters to be min. 25mm deeper than Trussed Rafters to allow for birdsmouthing at wallplate

Pre - Fabricated Mono pitch trusses by specialist to be fitted to girder truss with approved Girder Truss Shoe with min. bearing length of 90mm.

In order to minimise movement of the wallplate caused by the hip rafter, fix a 1200mm long galvanised steel angle restraint strap around the outside of the wallplate.

SHDC
Planning & Development
26 JUL 2004
Ref: 0838/04

Northgate

DETERMINED PLAN

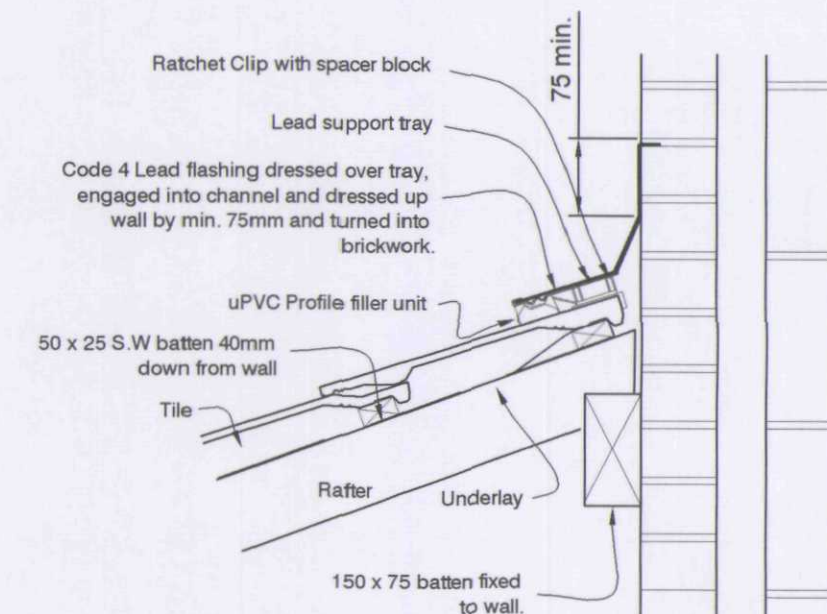
A - 21.07.04 - Roof amended to Hipped

remway design
Plans drawn for: Local Authority - Planning permission & Building Control.
3, Rembrandt Way
Spalding
Lincs
PE11 3HX
Tel: 01775 768921
Mobile: 07815 112 058
e-mail: jason@remwaydesign.co.uk

Project: Proposed 1st Floor Side Extension

Client: Mr M Vincent
"Palmetto"
Northgate
West Pinchbeck
PE11 3TB

Date: june04 DRG No 916-02 REV: A



TYPICAL ROOF TOP ABUTMENT DETAIL
Not to Scale

Note: The detail shown is a typical constructional method to provide the roof space with 5000mm² at the top edge. This detail should be adapted to suit specific site conditions and always to the satisfaction of the Building Inspector.

AMENDED PLAN
Ref: A /