

Roof Structure

Gangnail trusses to the pitch shown on the drawing to specialist manufacturer's design. They shall be designed fixed and braced in accordance with BS5268 pt3:1985 and secured with proprietary stainless steel clips to the wall plate.

Structural calculations for trusses shall be provided by the manufacturer 28days before installation and forwarded to the Local Authority

Wall plates shall be 50 x 100mm tanalised and bedded onto blockwork with gauged mortar and fixed with galvanised steel straps with a cross section of 30 x 5mm x 1200mm long fixed at 2m centres

Wall plates 50 x 100mm shall be tanalised and bedded onto blockwork with gauged mortar (1:1:6). Wallplates shall be strapped down at 2m centres 30 x 5mm galvanised mild steel straps at 2m centres. The straps shall be 1200 mm long bent over the plate and screwed in position . Thw leg will run down the blockwork and be screwed in position.

Longitudinal bracing 25 x 100mm tanalised sawn softwood fixed at right angles to the trusses and extending the whole length of the roof and installed at every unsupported node point

Diagonal bracing 25 x 100mm tanalised sawn softwood nailed to the underside of the rafters and fixed to wall plates shall run up to the ridge at 45 degree angle

.The bracing to extend to the whole of the roof. There shall be at least 4 trusses per diagonal.

The bracing may be omitted to not more than 2 trussed rafters between bracing sets and single trussed rafters adjacent to gable or party walls.The bracing to be twice nailed to every truss.

Where rafters,ceiling and floor joists run parallel to walls they shall be strapped at 2m centres. The straps shall be 30 x 5mm galvanised steel straps fixed to a minimum of 3NO trusses,rafters , ceiling or floor joists and fixed into the wall cavity. 50 x 50 noggings shall be fixed between rafters or joists before the straps are fixed.

Fascias shall be 25mm WBP plywood. Soffites 6mm WBP plywood

Insulation having a thermal conductivity of 0.35 W/m K shall be 150mm thick between and over the joists and rafters to give a U value of 0.25 W/m2.

The Roof shall be covered with roofing tiles fixed in accordance with the manufacturer's instructions

The battens shall be 25 x 50mm tanalised softwood

Battens shall be at least 1.2m long and shall be of sufficient length to be supported at each end and intermediately by at least 3 rafters,trusses or walls.Butt joints over intermediate supports should be staggered and the ends must be sawn

The underlay shall be approved reinforced roofing felt type 1F to BS 747. The underlay shall be laid over rafters lapped 150mm at joints and secured with galvanised clout nails. The underlay shall extend over fascias and into the gutter. Water traps behind the fascia shall be avoided. If necessary a continuous fillet to support the underlay shall be provided.

The eaves shall be formed with standard size tiles and purpose made eaves filler.Eaves tiles shall be laid at the same pitch as the main body of tiling and shall overhang the fascia by an amount sufficient to ensure the water discharges into the centre of the gutter.

Verges shall be forged with tile and a half tiles bedded over the gable in gauged mortar onto a 150mm wide asbestos cement strip. The tiles shall project 50mm over gable walls or bargeboards.

Ridge tiles shall be bedded onto the roof with solid bedding at butt joints. Provision shall be made to secure the two end tiles to each gable by fixing a 2m length of batten at the apex of the wall and the adjacent trusses. A nail shall be fixed to this and the ridge wired to it.

Suspended Floor Structure

The floor structure to the new room shall consists of 50 x 200 SC3 timber joists at 400mm centres

Solid strutting shall be provided mid span where the span is more than 2.5m and two rows where spans are in excess of 4.5m at one third span position.The strutting shall be at least 38mm thick and extend to at least .75 depth of joist.

Softwood tongued and grooved boarding is to be 19mm finished thickness

Where the partitions are at right angle to the floor joists they shall be fixed to the joists

Where the partitions run parallel to the floor joists then one or two extra joists will be fitted.

Heating,hot and cold water

Cold,Hot water and central heating shall be provided by the existing boiler

Heating pipework shall be extended to provide space heating to all areas .Radiator positions to be agreed

Thermostatic valves shall be installed on all radiators.

Wall mounted thermostats shall be installed to control the temperature in the various parts of the building.

Hot water storage vessels will be insulated

All pipes shall be insulated to the requirements of BS5422.

Automatic controls shall be installed to ensure that the temperature conditions within the building do not exceed those required during various periods.

The hot water shall be stored in a storage vessel whose heat exchanger has sufficient heating capacity for effective control.

A thermostat which shuts off the supply of heat when the storage temperature is achieved. When used on a hot water central heating system it is to be interconnected with the room thermostat. To ensure that the boiler is turned off when no heat is required.

A timer shall be installed as part of the central heating system or as a local device enabling the supply of heat to be closed down during the periods when water heating is not required.

General Notes

THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE SEPERATE BUILDING REGULATION SPECIFICATION NOTES

ALL DIMENSIONS SHALL BE CHECKED ON SITE AND UNDER NO CIRCUMSTANCES SHALL DIMENSIONS BE TAKEN FROM THE DRAWINGS AND USED FOR TENDERING ORDERING OR CONSTRUCTION PURPOSES WITHOUT CHECKING THEM ON SITE FIRST

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28 SEP 2004
Ref: 1280104

No. Revision/Issue Date

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Project
JWM/CR/WR/013
Date
10/8/04
Scale
Sheet
SPECIFY 2