

MECHANICAL VENTILATION

wc to have mechanical
extractor fan, ducted to external air to
give 15 l/sec air change, connected to
lightswitch with 15min. overrun.

All windows to be double glazed with 20mm air gap &
pilkington K low E coating, to give min. 1.60W/m2K U value.
£ 8000mm sq background ventilation opening lights to equal
1/20th floor area min.
850x500, safety glazing to doors, side panels & glazing
below 800mm from f.l.

ELECTRICAL

all domestic and other relevant electrical work required to
meet the B Regs Part P to be designed, installed and
tested by a qualified electrician registered with an DCLG
recognised competent person "self certification" scheme.
Upon completion of the works the council will be provided
with a copy of an appropriate BS7671 Electrical Installation
Certification issued by a person competent to do so.

HEATING

electric wall mounted fan heaters in gym/summerhouse only

O denotes smoke detectors wired directly to mains
sd with battery back up & interlinked to BS 5446 part 1
All sockets & switches to be between 450mm
& 1200mm high
min. 75% low energy light fittings in with
sockets that can only be used with lamps having
a luminous efficiency greater than 40 lumens per circuit-watt
any external lights to have automatic cut-off at daylight
& socket not capable of accepting screw or bayonet type bulb.
all electrical work to be carried out under "Competent Person"
scheme for design, installation, testing & certification, to comply
with Part P of Building Regs.

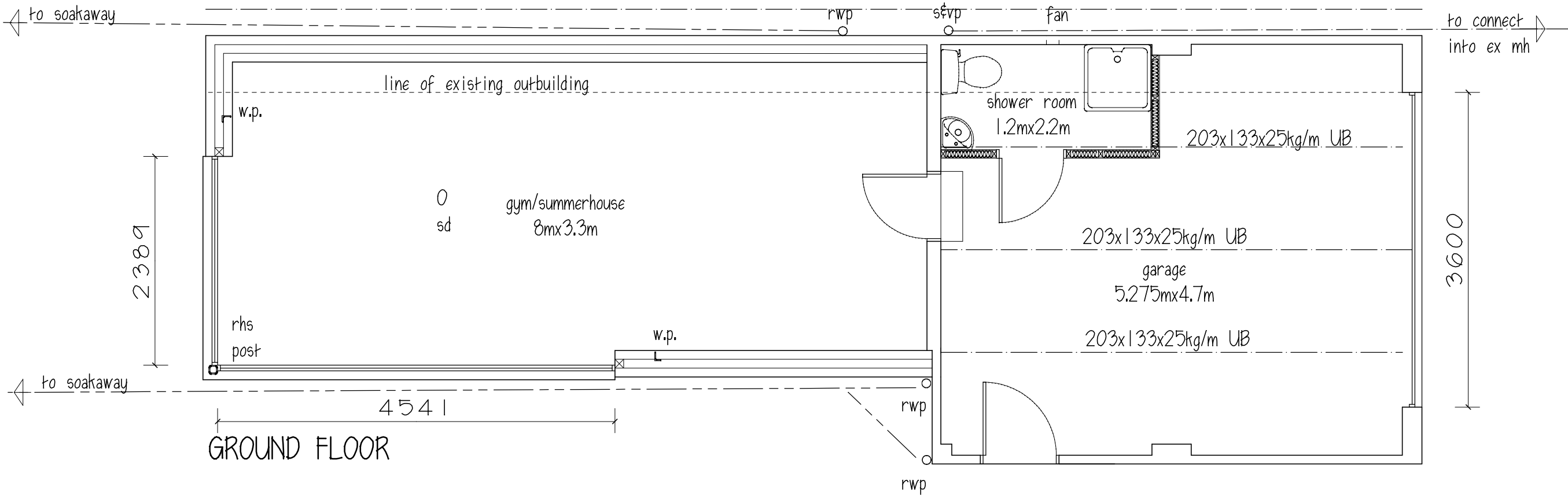
GYM/SUMMERHOUSE WALL CONSTRUCTION

103mm brickwork to plinth hieght to match house, with 100mm blockwork
rendered above to match existing house, with 100mm cavity, filled with
100mm cavity dri-therm wall batts with 100mm thermalite block o.e.a.
with p/b dabs & skim finish, 250mm s.s vertical twist wall ties @
450mm c/c/s vertically & 750mm c/c/s horizontally, staggered
with ties @ every block coarse @ reveals, cavity closed @
openings & eaves with dpc & insulation.
IG lintels LG/HD100 type lintels to be used over window
openings, o.e.a. with tray dpc over.
stud walls to be 100x50 sw shudding with 100x50sw
uprights @ 450mm c/c/s with 100x50sw sole & head plates,
100mm insulation quilt laid between, with 12.5mm p/b & skim both sides.
dpc to wall to be min. 150mm above gl.
tray d.p.c. to be installed at ground level where landing & ramp
will occur.
air leakage to be limited by the use of robust construction details i.e.
the cavity wall insulation must be taken down below damp course level,
finishing at same level as the underside of the floor slab insulation.
the cavity insulation & roof insulation must meet at the top of the wall.
(detail used must also allow ventilation to be maintained if appropriate)
cavity wall insulation must be carried up the full extent of gable walls.
all cavity closures must be insulated.

GROUND FLOOR

125mm concrete slab on 120mm Kingspan Thermafloor insulation laid
on dpm lapped thro cavity on 100mm min. well consolidated,
sulphate free, hardcore.

w.p. denotes Wincro wind posts
ref WP5A/130

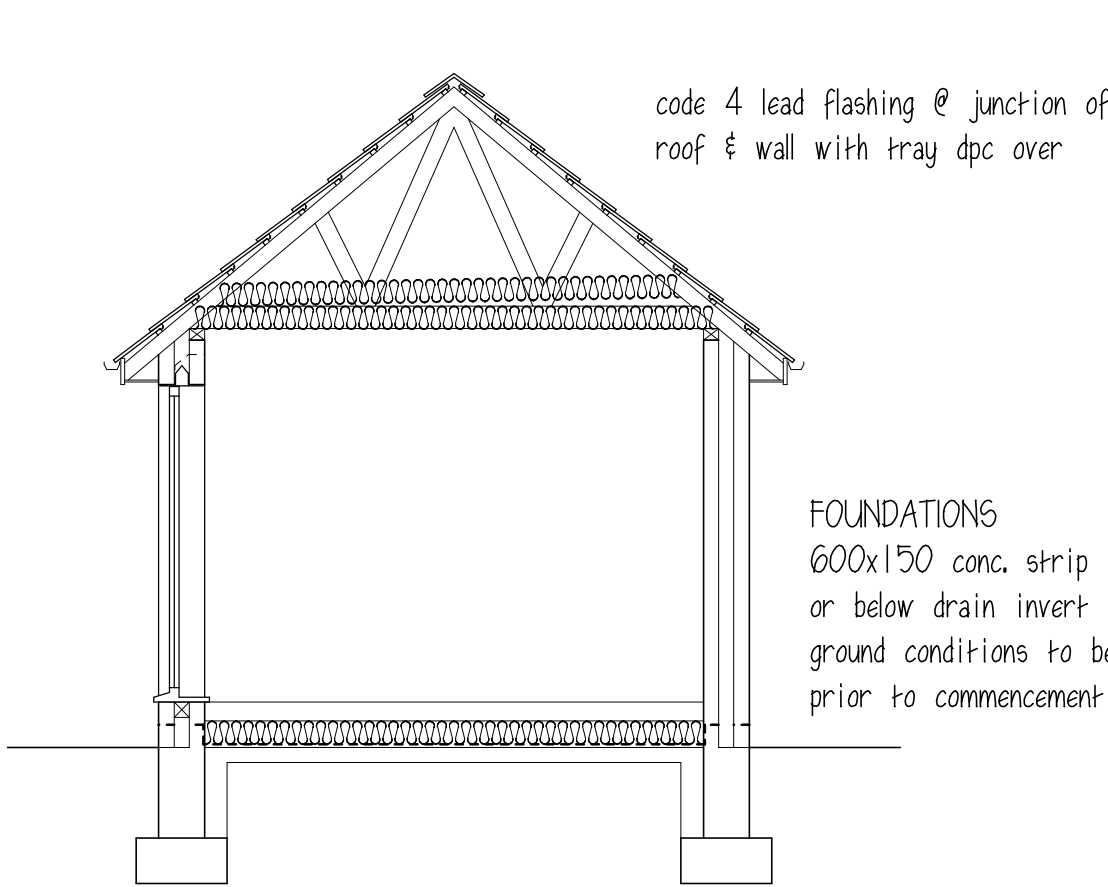


GYM/SUMMERHOUSE ROOF CONSTRUCTION

Main Roof to be concrete interlocking tiles, every tile nailed on 50x25 sw
battens on untearable sarking felt to BS 747 on proprietary roof trusses
@ 35° pitch & @ 600mm c/c/s with 25x100 sw horizontal bracing
@ ceiling joists, ridge & node points, diagonal bracing from ridge to eaves on all sides.
Trusses fixed to 100x75 sw wallplate held down with m.s. holding down straps
@ 1.8m c/c/s, built into wall, min. 1m down blwk. m.s. holding down straps fixed
over end 3No rafters & ceiling joists @ 1.8m c/c/s & built into wall.
All bracing to BS 5268, 200mm insulation quilt laid over @ 90° & 200mm
between ceiling joists with 12.5mm p/b & skim ceiling, min. 50mm clear
air gap required at eaves with 25mm gap to soffit, covered with flyproof
mesh, full length of all eaves, 175x25 sw fascia board, 10mm ply soffit board,
125mm dia. pvc guttering, discharging into 65mm dia. pvc RWP.
Conditional Approval required for roof trusses,
calcs to be provided prior to erection on site.

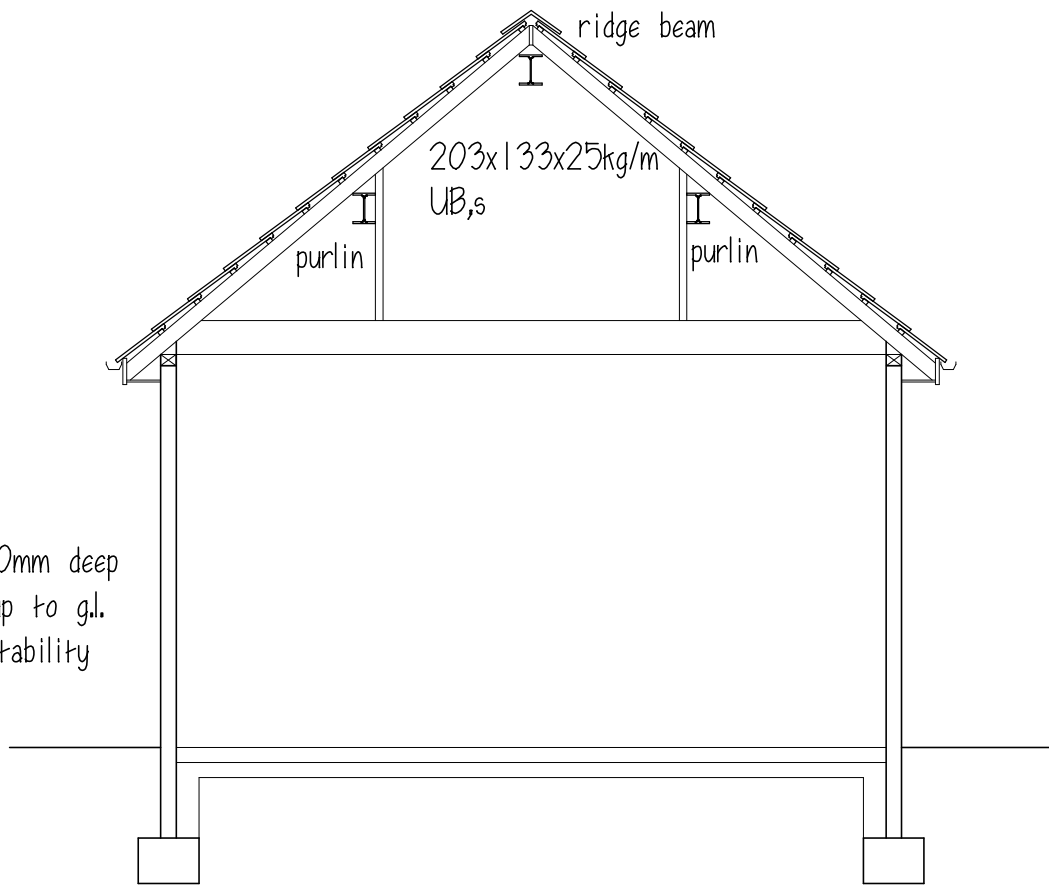
GARAGE ROOF CONSTRUCTION

conc. interlocking tiles, to match existing, with 100mm headlap,
every tile to be nailed on 38x50 sw battens on untearable breathable felt
to BS747 on50x150 sw rafters at 35°pitch @ 450mm c/c/s
birdsmouth & nailed to 75x100 sw wallplate held down with 30x5m.s. galvholding
down straps at 1800mm c/c/s, built into wall. at all gable walls, with 195x50 C24
ceiling joists @ 450mm c/c/s
fascia board & soffit to match existing with 12mm gap covered with flyproof
mesh 100mm p.v.c. guttering discharging into 65mm Ø rwp discharging into
soakaway min. 5m from building, min. 1m cu. clean hardcore.



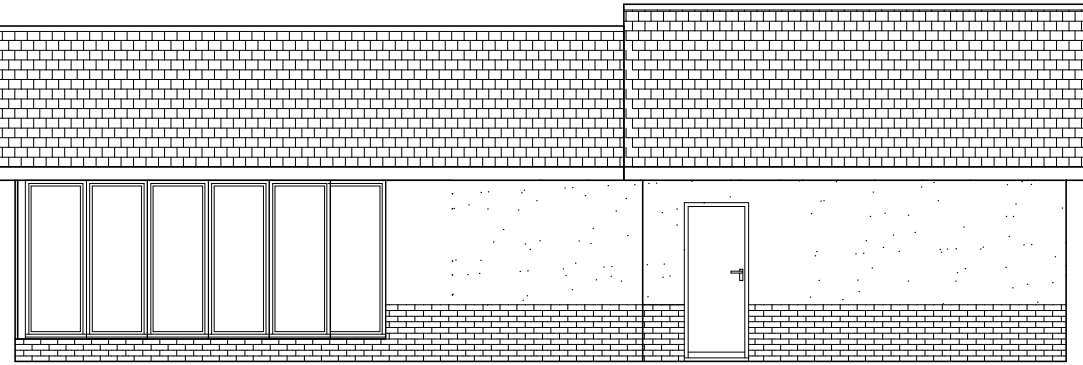
FOUNDATIONS

600x150 conc. strip footings min. 900mm deep
or below drain invert 7KN fnd blocks up to gl.
ground conditions to be checked for suitability
prior to commencement on site.

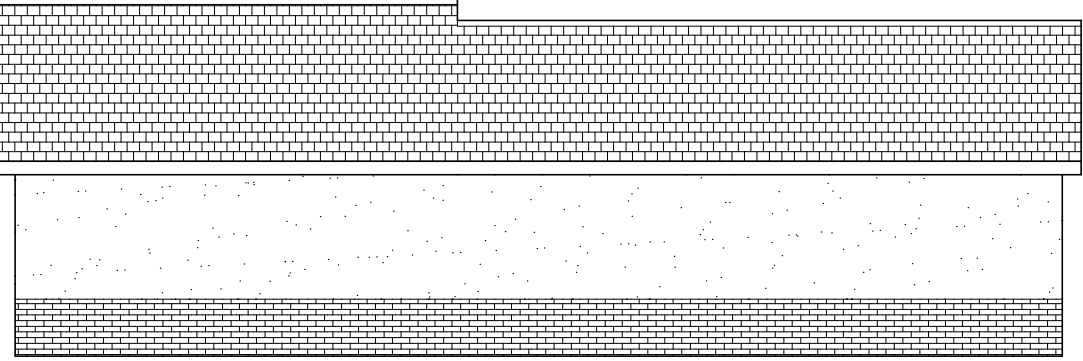


GARAGE FLOOR CONSTRUCTION

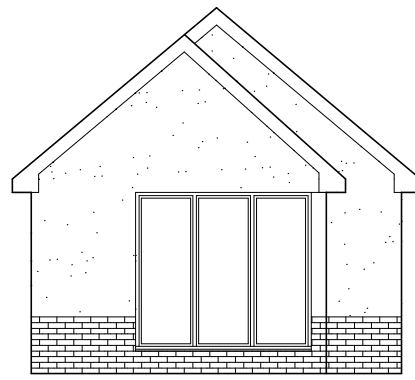
125mm concrete slab on 2000g visqueen dpm radon/methane barrier
turned up edge of slab, on 100mm min. sulphate free, well consolidated hardcore.



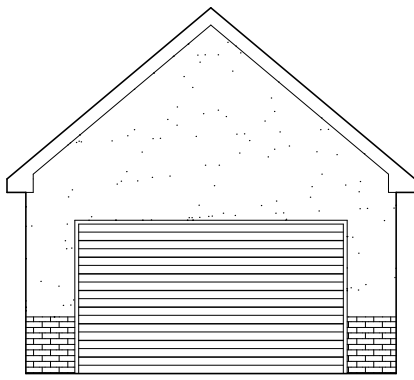
SIDE ELEVATION



SIDE ELEVATION



REAR ELEVATION



FRONT ELEVATION

DRAINAGE

wc to have 100mm dia. pvc S&VP,s with birdproof mesh cage min. 900mm
above any opening lights, 32mm dia. pvc waste from w.h.b,s 40mm dia. pvc waste
from shower, all with 75mm deep re-sealable traps, discharging
into S&VP
Below ground drainage to be 100mm dia. flexible jointed pipes, bedded on &
surrounded with 150mm pea gravel, where drains pass under building, pipes to be
lintelled over with p.c.c. lintels, new drains to connect into existing mh.

All surface water to be discharge into soakaways, min. 5m from building, subject
to percolation test, min. 1m3 clean hardcore
provide vent at or near head of drain run
foul water to discharge into existing drain

GENERAL NOTES

All existing dimensions,sizes, & drain inverts
to be checked on site prior to commencement
All work to comply with current B. Regs. &
B.S.C.P. wether or not specified on dwg.

Mr & Mrs P MATTHEWS

PROPOSED GARAGE/GYM
41 KERESFORTH HALL RD.
KINGSTONE

PLANS,SECTIONS & ELEVATIONS

1:100,1:50@A1 NOV14 Rev B

Peter Thompson

"Linwood"

Barnsley Road

Dodworth

Barnsley S75 3JR

e-mail peter-thompson@hotmail.co.uk



M.C.I.A.T.

Ref. 01226 201391

m. 07973251730