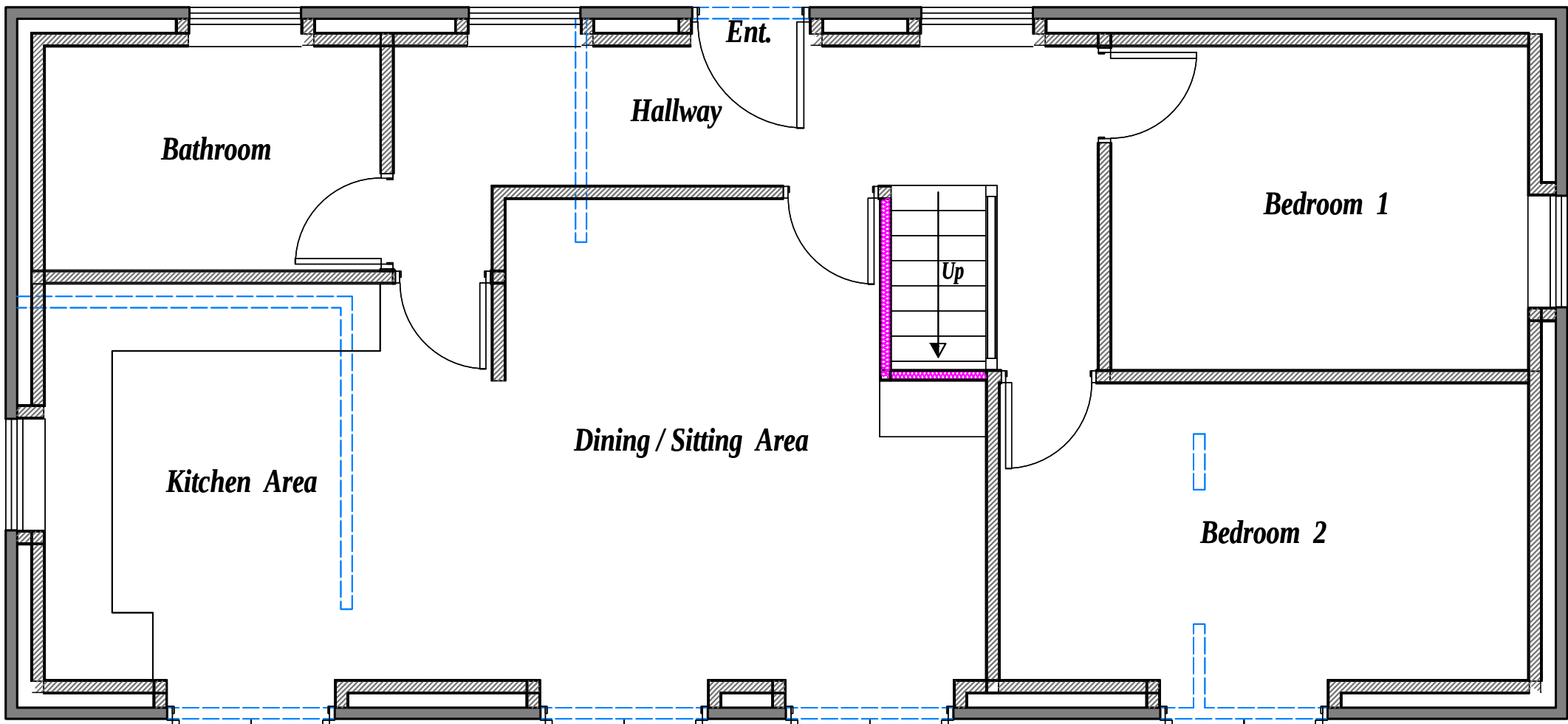


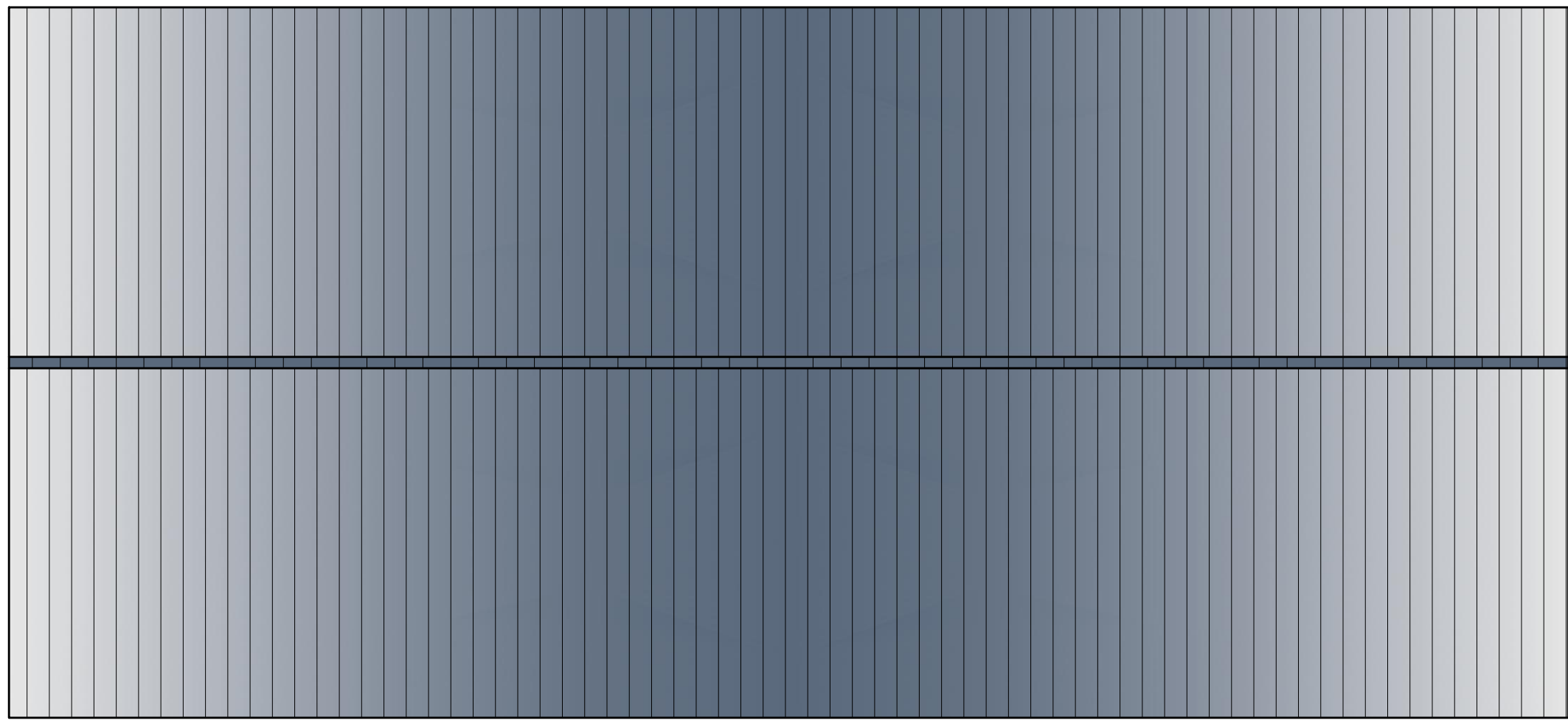
0m 1 2 3 4 5m 6 7 8 9 10m

PLANNING APPROVED APPLICATION 12/D55193 PLANS

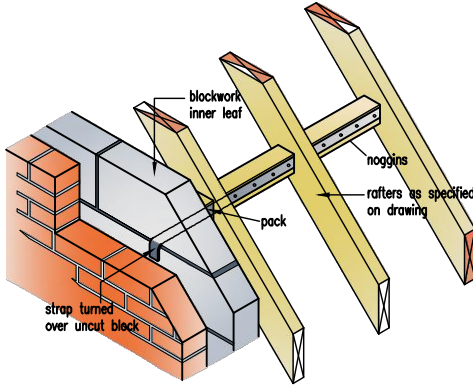
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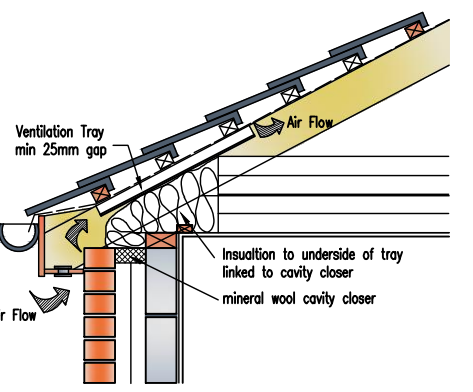
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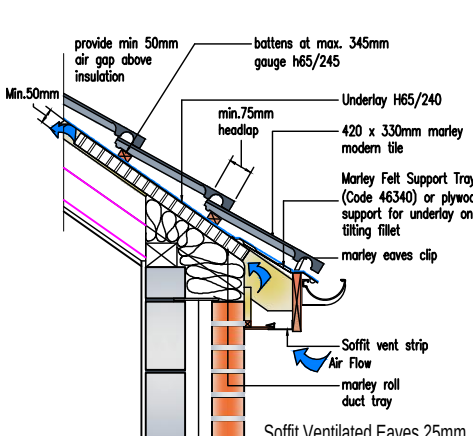
PROPOSED ROOF PLAN scale 1:50



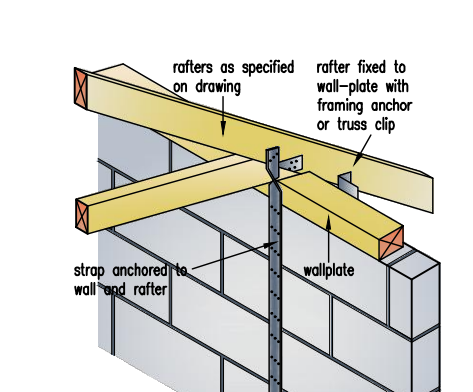
EFFECTIVE STRAPPING AT GABLE WALL



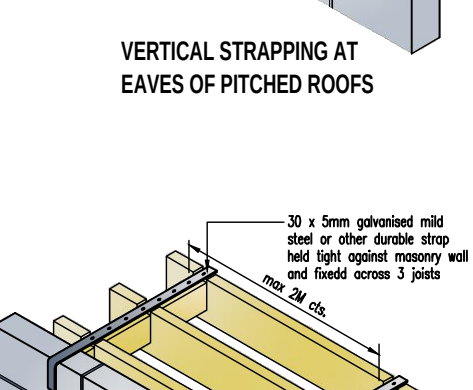
EAVES DETAIL



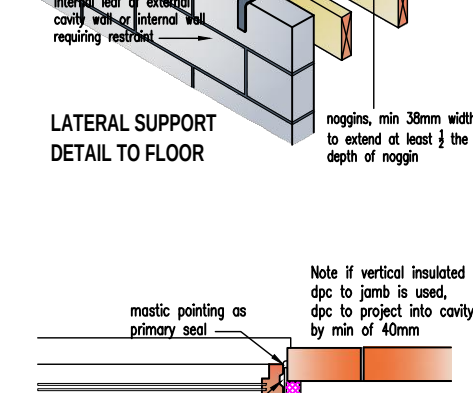
EAVES DETAIL - SLOPING CEILING



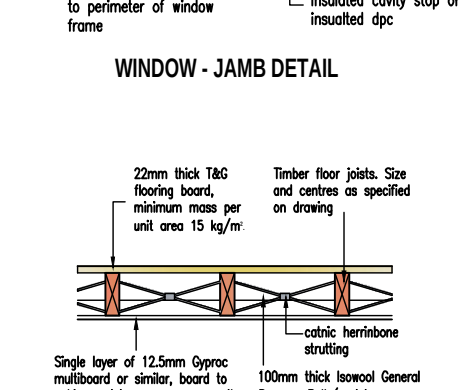
VERTICAL STRAPPING AT EAVES OF PITCHED ROOFS



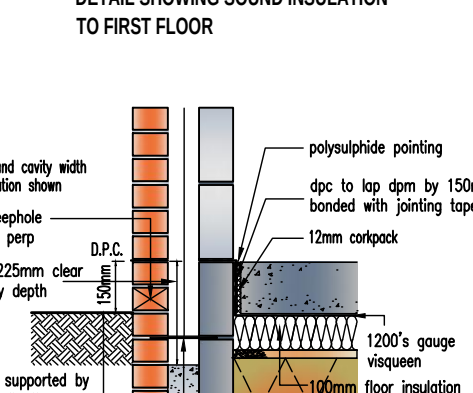
LATERAL SUPPORT DETAIL TO FLOOR



WINDOW - JAMB DETAIL



DETAIL SHOWING SOUND INSULATION TO FIRST FLOOR



FLOOR SLAB DETAIL

ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ROBUST CONSTRUCTION DETAILS IN ORDER TO ENSURE CONTINUITY OF INSULATION AND TO LIMIT AIR LEAKAGE. Reference should be made to the revised BS 5250 and BR 262 'Thermal insulation: avoiding risks.'

ROBUST CONSTRUCTION DETAILS

GENERAL NOTES

- FOUNDATIONS 225mm min thickness, strip foundations to project 150mm min either side of supported wall. Provide 750mm min cover to foundations. Foundations below 900mm to bottom of strip footing and taken down to level below invert of any drains passing under or immediately adjacent to the building. Although strip foundations have been shown on the drawing, these may not be appropriate and are for illustrative purposes only. Foundations to suit conditions to the satisfaction of the Local Authority once initial hole has been dug - Alternative Foundations to be designed by Structural Engineer. Concrete mixes to be in accordance with BS 8500 - 1.
- CONDITIONS RELATING TO THE GROUND
- There should be:
 - non-engineered fill (as described in BRE Digest 427) or wide variation in ground conditions within the loaded area, nor
 - weaker or more compressible ground at such a depth below the foundation as could impair the stability of the structure.
- Where new foundations arise in vicinity of old foundations, existing should be fully grouted up and new foundations laid at least the same depth.
- All exposed timbers to be treated with a suitable preservative to BS 2932:1975.
- All new cavities to be closed with 9mm supalak, all new cavities to be linked with existing.
- All new drains to the Hopworth superstore and to be bedded and surrounded in min. 150mm pea gravel. 100mm diameter drains to fall 1 in 40. 150mm diameter drains to fall 1 in 60. New drains to be encased in min. 150mm concrete where they pass under new buildings. All existing drains found not to be in use to be capped and sealed in concrete. 150mm pre-cast concrete inlets inserted where new drains pass through external walls. Soil and vent pipes to be 100mm U.P.V.C. 50mm diameter U.P.V.C. waste pipes to showers, sinks and baths with 40mm diameter to basins. S.V.P. to be taken up to a ridge terminal or roof vent unless otherwise as noted on the plans. Provide rodling trays or removable traps to give access to all runs of the soil system. All traps are to be 75mm deep sealed rubber traps. All the plumbing installations are to comply with BS 5512. All housing in for concrete service pipes should be sealed at floor and ceiling levels, and service pipes which penetrate or project into hollow constructions or voids. (Refer to item 4 of diagram of all the Approved Document L1). Deep flow gutters and 64 / 75 mm diameter P.V.C. rainwater pipes.
- Insulated D.V.s inserted at all head, joints and calls of new external openings or thermaabate doors.
- All disturbed surfaces to be made good.
- All new rain water pipes to trapped gullies.
- 75 x 100mm wallplate to strapped to wall at 2m centres with 38 x 5mm mild steel straps.
- Opening lights to be min 1200mm total floor plan area.
- All glazing to critical zones to be toughened or laminated to BS 6206. The glass to doors within 1500mm of finished floor level and within 300mm of either side of doors and where greater than 500mm wide max 5.5m/sq in doors, and to screens windows within 800mm of finished floor level.
- Steelwork as noted on plan to comply with BS444, BS5950 & be encased in 2 layers of 12.5mm plasterboard with angle beads and 3mm plaster coat to give 1/2 hour fire resistance. Lintels to have minimum 150mm end bearings at each end or as specified by Structural Engineer or intel manufacturer.
- Cavity tray to be fitted to lintels within external wall with stop ends and weepholes at each end and @ 900mm c/s. Loadbearing internal walls to be 100mm concrete blockwork.
- 0.75 to outer leaf to be min 150mm above ground level and at sidewalk level to inner leaf.
- Facing brickwork to extend min 2 courses below ground level.
- New concrete lintels over new openings to BS597 Part 2:1986 (150mm or 225mm) deep where shown.
- Stainless steel wall ties to be spaced at 750mm centres horizontally (staggered) and 450mm centres vertically. Wall ties to comply with BS 1234:1978 and to have proprietary U.PVC retaining clips to secure the insulation to the inner leaf. Joints to be built up by returning the blockwork onto 150mm wide vertical D.P.C. Provide additional wall ties at 225mm vertical centres around door / window openings and at movement joints. Cavities be closed at eaves level to comply with Building Regulations.
- Notches and holes to timber joists to be within the following limits: notches - no deeper than 0.125 times depth of joist and not cut closer than 0.07 of the span, nor further away than 0.25 times the span. Holes - should be no greater diameter than 0.25 times the depth of joist should be drilled at the natural axis, and where greater than 30mm in 3 diameters (centre to centre) apart, and be located between 0.25 and 0.4 times span from the support.
- No notches or holes to be cut in roof rafters, other than supports where the rafter may be braced to a depth not exceeding 0.33 the rafter depth.
- All pipework incorporated in the water / heating system, that is situated in an unheated space is to be surrounded in 40mm of insulating material (min conductivity 0.045W/mK).
- All masonry work to comply with BS 5628: P3. Clay bricks to BS 9201, Engineering bricks to BS 3821. Concrete bricks to BS 6073. Manufactured stone complying with BS 6457.
- Minor: Selection of mortar used below dpc to be in accordance with BS5628: Part 3.
- Substrate-resisting cement to be used where recommended by brick manufacturer and where sulphates are present in the ground.
- DPM below slab to BS 6515: when the membrane is located below the slab a blinding layer of sand should be provided. The continuity of the membrane as follows:
laps in polyethylene should be 300mm and joints sealed, where necessary, membrane beneath slab should link with wall dpc's.
- STAIRCASE Equal risers (Max rise 220mm) Equal risers (Min going 220mm) Min Going to Tapered treads of 50mm. 2000mm headroom clear measuring from pitch line. Max pitch of stair 42 degrees. Handrail between 900mm and 1000mm above pitch line. No gap in balustrading to allow the passage of 100 diameter sphere.
- Flues (if applicable)
Flue blocks to be inserted into inner leaf of external wall in locations shown on plans. Flue liner with max. 4 degree (30 degree preferred), offset at base, bedded in cement mortar grout to comply with S.S. 135:1971. All floor and roof timbers will be trimmed 40mm clear from the outer face of chimneys and flues.
- Chases
Vertical chases should not be deeper than 1/3 of the wall thickness or, in cavity walls, 1/3 of the thickness of the leaf.
Horizontal chases should not be deeper than 1/5 of the thickness of the leaf of the wall.
Chases should not be so positioned as to impair the stability of the wall, particularly where hollow blocks are used.
- All waterproofing and materials to comply with Building Regulations, British Standards, Codes of Practice requirements. All materials to be fixed, applied or fixed in accordance with manufacturers instructions or specifications. All materials shall be suitable for their purpose. The contractor shall take into account everything necessary for the proper execution of the works, to the satisfaction of the "inspector" whether or not indicated on the drawing. Sample of external materials to be submitted to the Local Authority for approval.
- The Builder is entirely responsible for all temporary works and for maintaining stability of the new and existing structures during work.
- Contractor to visit site prior to commencement of work and check all dimensions and facilities in respect with the site conditions. This drawing must then be checked and verified by the contractor prior to work commencing on site. No Encroachment by the building over the neighbouring boundary line. Client to obtain written permission from relevant bodies for any encroachment whatsoever if unavoidable.
- Trade Ventilation
Replacement windows, background ventilators to be provided as follows:
Habitable rooms - 8000mm² equivalent area
Kitchen, lobby room and bathroom - 4000mm² equivalent area
Addition of a habitable Room (not including a conservatory) to an existing building.
Background ventilators to be provided to new windows as follows:
If the Additional room is connected to an existing room that has no window opening to external air, the room can be ventilated through another room or conservatory (background ventilation is provided) with ventilators - 8000mm² equivalent area to opening between rooms and to new windows.
Purge ventilation is provided comprising of 1 or more openings with min total floor area as follows:
Windows - hinged or pivot window that opens 30° or more, or the Height x width of the opening part should be at least 4th of the room floor area.
For a hinged or pivot window that opening less than 30° opening part should be at least 4th of the room floor area.
External doors the height x width of opening part should be at least 4th of the room floor area.
If the room contains a combination of at least 1 external door and at least 1 external window, the opening parts may be added to achieve at least 4th of the room floor area.
Note: Background ventilation should be located at least 1700mm above floor level and need not be within the door frame.
Openings between habitable rooms and conservatories must be closable.
Note: admitting ventilators to be used if close to sustained noise (e.g. main road) as detailed in Approved Document F.
- External doors the height x width of opening part should be at least 4th of the room floor area.
- If the room contains a combination of at least 1 external door and at least 1 external window, the opening parts may be added to achieve at least 4th of the room floor area.
- Note: Background ventilation should be located at least 1700mm above floor level and need not be within the door frame.
Openings between habitable rooms and conservatories must be closable.
Note: admitting ventilators to be used if close to sustained noise (e.g. main road) as detailed in Approved Document F.

- Unstable material
Vegetable matter such as turf and roots should be removed from the ground to be covered by the building to a depth to prevent tree growth. The effects of roots close to the building also need to be assessed. Where mature trees are present on sites with shrinkable clays the potential damage arising from ground heave to services and floor slabs and overlie concrete should be assessed. Reference should be made to BRE Digest 286/2. Where soils and vegetation type would require significant quantities of soil to be removed, reference should be made to BRE Digests 241/23 and 242/24, and to the FSE Foundation for the Soil Environment) reports.
- Construction Design and Management Regulations 1994, (CDM REGULATIONS) and Health and Safety at Work etc. Act 1974
Designers CDM Statement
The Client is especially reminded of his or her duties under the above act and referred to the Health and Safety Executive's Guidance note 39 'The Role of the Client'.
The Designers encompassed on this drawing are closed as simple construction using traditional methods and materials available to general builders. As such they do not present any unusual circumstances in their execution or risks which a competent builder could not be reasonably expected to know.
For alteration work requiring new openings in walls or the removal of existing walls, the builder is to follow the guidance in the Building Research Establishment Good Building Guides Nos 15 & 20 providing temporary support during work on openings in external walls and removing internal load bearing walls in older dwellings.
The Contractor shall ensure that he and all visitors to the site are fully aware of these regulations and ensure full compliance with same and shall include for all necessary documentation.
2. Contractor to provide all necessary scaffolding with edge protection to prevent persons falling or falling debris. Also to provide protection to adjoining properties along site boundary.
3. All necessary safety precautions to be taken when working at high level. I.e. using safety harness.
4. Contractor to investigate possible live or redundant services within the site and any hazardous material that may be present. Refer to Approved Document underpinnings services. HSG 47. Control of Asbestos at Work Regulations 2002. Control of Substances Hazardous to Health Regulations 2002 and Dangerous Substances and Explosive Atmospheres Regulations 2002.
5. All persons entering site to have all necessary protective clothing and head protection compliant with health and safety. Refer to Personal Protective Equipment at Work Regulations 1992 (as amended).
6. Clearing of windows to be accessible from inside if they are unable to be accessed from exterior.
7. All necessary propping and support required for excavation of trenches, retaining walls and underpinning to be installed in accordance with a structural engineers details and specification.
8. Contractor to provide all necessary support to maintain stability of existing or neighbouring structures.
9. Danger of collapse to trenches caused by heavy machinery, working above or near.
10. Danger of persons falling into trenches.
11. Use of power tools and equipment. Refer to Provision and Use of Work Equipment Regulations 1998 and Electricity at Work Regulations 1987.
12. Electrical Safety, Quality and Competence Regulations 2002.
13. Avoid chasing of walls for services.
14. Risk of working with glass. Risks of working at height and from falling objects.
15. Risks of working with dust/dust - protective gear/earthing protection to be used. Refer to Control of Substances Hazardous to Health Regulations 2002.
16. Precisions to be taken when filling heavy materials (bricks and beams) in position above 20kg - use Adequate lifting machinery. Refer to Lifting Operations and Lifting Equipment Regulations 1986. Manual Handling Operations Regulations 1992.
17. Covering of roofs. All work to be carried out with due regard to health and safety regulations.
18. Covering of overhead power cables within and around the site.
19. Installation and use of traffic materials. Refer to Fire Precautions (Workplaces) Regulations 1997.
20. Access into and out of site - traffic management into and out of site. Refer to Driving at Work - Managing work-related road safety. INDG 380.
21. Provisions to be taken when working in confined spaces. Refer to Confined Spaces Regulations 1997 and Safe work in confined spaces. Approved Code of Practice. Regulations and Guidance. L101.
22. THE CONTRACTOR IS ADVISED OF THE FOLLOWING REGULATIONS APPLICABLE:
23. New Roads and Street Works Act 1991.
24. Construction (Health, Safety and Welfare) Regulations 1996.
25. Health & Safety (First Aid) Regulations 1981.
26. Health and Safety (Young Persons) Regulations 1997.
27. Temporary Regulations 1999.
28. Management of Health and Safety at Work Regulations 1999.
29. Noise at Work Regulations 1989.
30. Pressure Systems Regulations 1999.
31. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 1995.
32. Supply of Machinery (Safety) Regulations 1992 (as amended).
33. Workplace (Health, Safety and Welfare) Regulations 1992.
34. Managing Health and Safety in Construction. Approved Code of Practice and Guidance. HSG 224.
35. Successful health and safety management. HSE 65.
36. Vibration Solutions. HSG 170.
What does the Party wall Act say if I want to build up against or across the boundary line?
If you plan to build a party wall or party fence wall outside the boundary line, you must inform the Adjoining Owner by serving a notice.
The Act contains no enforcement procedures for failure to serve a notice. However, if you start work without having first given notice in the proper way, Adjoining Owners may seek to stop your work through a court injunction or seek other legal redress.
How long in advance do I have to serve the notice?
At least one month before the planned starting date for building the wall. The notice is only valid for a year, so serve it too long before you wish to start.
What happens after I serve notice about building across the boundary line?
If the Adjoining Owner agrees within 14 days to the building of a new wall outside the boundary line, the work (as agreed) may go ahead. The expense of building the wall may be shared between the owners where the benefits and use of the wall will be shared. The agreement must be in writing and should record details of the location of the wall, the allocation of costs and any other agreed conditions.
If the Adjoining Owner does not agree, in writing, within 14 days, to the proposed new wall outside the boundary line, you must build the wall wholly on your own land, and wholly at your own expense. However, you have a right to place necessary footings for the new wall under your neighbour's land subject to compensating for any damage caused by building the wall or tying the foundations. There is no right to place reinforced concrete under your neighbour's land without their express written consent.
You may start work one month after your notice was served. What does the Act say if I want to excavate near neighbouring buildings?
If you plan to excavate, or excavate and construct foundations for a new building or structure, within 3 metres of a neighbouring owner's building or structure, where that work will go deeper than the neighbour's foundations, or excavate, or excavate for and construct foundations for a new building or structure, within 6 metres of a neighbouring owner's building or structure, where that work will cut a line down downwards of 45° from the bottom of the neighbour's foundations, you must inform the Adjoining Owner or owners by serving a notice.
'Adjoining Owners' may include your next-but-one neighbour if they have foundations within 6 metres. The notice must state whether you propose to strengthen or safeguard the foundations of the building or structure belonging to the Adjoining Owner. Plans and sections showing the location and depth of the proposed excavation or foundation and the location of any proposed building must also accompany the notice.
The Act contains no enforcement procedures for failure to serve a notice. However, if you start work without having first given notice in the proper way, Adjoining Owners may seek to stop your work through a court injunction or seek other legal redress.
• Cover under Part 2 of the Act.
NOTE THE CLIENT IS ADVISED TO READ THE PARTY WALL ACT 1996 FULLY FOR EXAMPLES OF NOTICES SERVED AND FOR FURTHER INFORMATION WITH REGARDS TO THE ABOVE.
Approved Document P (Electrical Safety)
All Electrical Work to which the Requirements of Part P (Electrical Safety) apply, will be designed, installed, inspected and tested by a person competent to do so. Prior to completion of works the Local Authority must be satisfied that either, an Electrical Installation certificate issued under a 'Competent Persons' scheme has been issued or Appropriate certificates and forms defined in BS 7671 (as amended) have been submitted that confirm that the work has been inspected and tested by a 'competent person'. A 'competent person' will have a sound knowledge and suitable experience relevant to the nature of the work undertaken and to the technical standards set out in BS 7671, be fully versed in the inspection and testing procedures contained in the regulations and employ adequate testing equipment.
NOTE: THE ELECTRICAL LAYOUT SHOWN IS FOR BUILDING REGULATIONS SUBMISSION ONLY.
THE BUILDING INSPECTOR MUST BE INFORMED OF ANY CHANGES TO THE LAYOUT PRIOR TO WORKS COMMENCING AND WORKS TO BE CARRIED OUT BY A COMPETENT PERSON AS DESCRIBED ABOVE.
CONTRACTOR TO AGREE POSITION OF ELECTRICAL ITEMS AND RADIATORS WITH CLIENT PRIOR TO WORK COMMENCING
This drawing is Produced for submission to the Local Authority for Approvals under the Building Regulations and Town and Country Planning Acts only and this drawing is the copyright of T.D.M ARCHITECTURAL DESIGN and any reproduction in whole or part is strictly forbidden. All dimensions shown on drawing are approx and do not allow for Building tolerance and must be checked on site prior to work commencing.