

Structural Specification

This specification forms part of the design package. It should be provided to the Contractor and should be read in conjunction with the structural design package.
The information in this standard specification should be considered as "unless noted otherwise" (i.e. information in the design package takes precedent).



Project Name: 10 Chorlton Green

Document Reference: LM22254

Revision: P01

A	General
A1	Temporary works to allow construction of the permanent works to be designed and implemented by the contractor to BS5975.
A2	Fire protection and visible finishes specification to be provided by the lead designer in consultation with the building control authority.
A3	Where a product is specified an alternative equivalent system may be used subject to the approval of the designer. All proprietary products to be installed in accordance with the manufacturer's installation manual / guidelines.
A4	Setting out dimensions are to be verified by the contractor prior to installation.
A5	Contractor to ensure that all services are located, protected and their location marked prior to start of construction.
A6	All works are to be in accordance with the requirements of the Building Regulations.
A7	Construction products are to be supplied CE marked to the Construction Products Regulation.
B	Concrete
B1	Concreting works to be executed in accordance with the latest edition of the National Structural Concrete Specification (NSCS).
B2	Concrete shall be supplied in accordance with this specification and the relevant clauses of BS 8500-2:2015 and BS EN 206-1:2013 unless otherwise stated otherwise.
B3	Reinforced and unreinforced concrete foundations in contact with the ground are to be a FND3 designated concrete. To confirm suitability of the mix, a soil contamination analysis to BRE Special Digest 1, is to be undertaken by the contractor before construction to confirm soil aggressivity and provided to the concrete supplier.
B4	Reinforced concrete inside enclosed well ventilated rooms with low humidity (e.g. floor slabs, walls and columns) to be a RC28/35 designated mix. Ground bearing concrete may be a RC28/35 designated mix where separate from the ground with a DPM.
B5	Maximum aggregate size to be 20mm.
B6	Reinforcement is to be grade B500B deformed ribbed bars to BS 4449:2005 cut and bent to BS 8666:2005. Grade B500A is permitted for mesh reinforcement.
B7	Reinforcement to be obtained from a suppliers holding a valid certificate of approval issued under a product certification scheme operated by a third party certification body with appropriate Category 2 accreditation from the United Kingdom Accreditation Service (UKAS).
C	Foundations
C1	Foundation design has been based upon granular soil conditions with an allowable bearing pressure of 100kN/m ² . Building control to confirm the ground conditions on site.
C2	Where clay soils are encountered further testing may be required with consideration for the shrinkability of the clay. Contact DYSE immediately.

C3	Foundations to be on undisturbed natural ground.
C4	Concrete to all foundations to be vibrated into position with 50mm poker vibrator to achieve full compaction.
C5	Foundation width and length to exceed pier and wall returns by at least 200mm.
C6	Minimum cover to reinforcement in bottom of mesh reinforced foundation pads to be 75mm.
C7	Where foundations are trench filled, top of concrete to be minimum 225mm below ground level or greater if required to accommodate drainage, gullies, etc.
C8	Where strip footings or trench fill foundations are within 1000mm of below ground drainage the depth of foundations should exceed the depth to invert.
C9	Where drains are required to pass through foundations provide isolation material around drain and provide concrete lintels in wall construction over or reinforce foundations as required.
C10	Foundations must not encroach boundary. Where proposed foundation depth is greater than the horizontal distance to a boundary or neighbouring building do not undertake works without satisfying the requirements of the Party Wall Act.
C11	Contractor to provide any temporary support to the excavations to facilitate the new foundations and prevent collapse of trench sides.
D	Underpinning
D1	Underpinning to be complete in sequence as indicated on GA and in accordance with the underpinning method statement.
D2	For underpinning depth refer layout plan and sections. Contractor to determine setting out on site. Do not exceed length of underpinning specified.
D3	Formation level and bearing strata to be inspected by building control office and/ or DYSE prior to placing concrete.
D4	Underpinning to be installed to depth minimum as shown. Length of underpinning blocks not to exceed 1000mm as shown on plan unless stated otherwise.
D5	Provide adequate temporary support to excavation and existing structure with shores and propping to ensure stability of building and excavations at all times. If required allow for installing sacrificial props within underpinning and wall. The contractor will be responsible for the adequacy of all temporary works.
D6	Clean underside of existing foundations and remove any loose sections of brick spread footings.
D7	Concrete to underpinning to be grade FND3.
D8	Concrete to underpinning to be vibrated into position with min 50mm dia poker vibrator to achieve full compaction.
D9	Allow 72 hours between pouring concrete and building walls to one underpinning block and excavating the adjacent block. Sequence of underpinning shown to be followed. Refer change of sequence to DYSE.
E	Party Wall
E1	Where works are in close proximity to the party wall, client must abide by the Party Wall Act.