# STRIP FOUNDATIONS

# GENERAL SPECIFICATION SHEET

Clear site of all vegetable matter, top soil etc., and excavate to dimensions shown, lay strip foundations to width and thickness to suit L.A. requirements in grade C20 concrete containing min. 260kg. O.P.C. per m3. founds shown are to suit natural ground conditions having a safe increase bearing capacity off 100Kn/m2.

Where founds, 1 linear metre of any drain then found, strip should be excavated to min, invert level of drain in question. Founds, to have min, 900mm cover, and excavations to be to B.S. 8000 part 1.

### **EXTERNAL WALLS**

Cavity walls to be constructed as shown with motorials stated. Austenetic steel wall ties to be inserted for stability of 450mm min. vertical / 750mm min. horizontal and doubled up at side of openings and 900mm min. arise, cirs, ties to have min. 50mm embedment in each leaf. Insert vertical D.P.C. round all new door and windows openings. Lay bitumen based (or sim. approved) horizontal D.P.C. in all walls at min. 150mm above ground level.

Cavities to be firestopped at roof level. All walls to be filled with right insulation to meet current requirements of 'U' value : 0.35W/m2k

### STEEL BEAMS

R.S.J.'s and U.B.'s and catule lintols to be supported by grade C25 cone, padstones to sizes specified by consulting structural engineer and excase in fireline p.bd. to monufacturers instructions and skim.

A closer bandroom of 2000mm should remain after positioning any steel beam in a habitable room.

# <u>VENTILATION</u>

Habitable room ventilation should be provided by one or more ventilation openings with a total area of at least. Note of the floor area of the room with some part of the ventilation min. 1750mm above floor level. Kitchen & Utility rooms to have rapid mechanical ventilation rated at 60fitres/second and maybe operated intermittently. Bethroom rapid mechanical ventilation should be provided with either mechanical extract ventilation rated 15 litres/second which may be operated intermittently. All habitable rooms to have controllable and secure background ventilation openings of 8000mm2 min. focated so as to avoid undue moisture.

### **PARTITIONS**

Construct partitions in position shown in 100x50mm stude faced both sides in Gyproc wellboarding and skim, insulate between framework using 100mm fibreglass quilt. Studding to be negged to floor/roof members at 600mm ctrs.

### DRAINS

Soil and storm drains to be juid at falls of not less than 1 in 40 and are to be encased in grade C25 concrete in the event of passing beneath building. Where any drain passes through a load bearing well, lay 150mm deep z wall thickness R.C. liniof over and pack out with polystyrene off-cuts.

40mm diameter waste pipes from sinks, washdown room and any other room as required. 32mm diameter from besins and 100mm from W.C.z. All traps to be 75mm deep seal. Any waste exceeding 1.7m in length to have anti-syphonic traps. Any waste exceeding 2.3m in length to be 50mm diameter. All waste pipework to BS 8000.

### **ELECTRICAL SAFETY**

The amount of light fitting/sockets/awitches etc. is to be agreed between the client and the contractor before work commences on site. All wiring and electrical work will be designed, installed, inspected and tested in accordance with the requirements of BS:7671-2008, the IEE 17th edition wiring guidance and building regulation part P (Electrical safety) by a competent person registered with a electrical self certification body authorised by the accretary of state. The competent person is to send the local authority a self-certification certificate within 30days of completion of the electrical works. The client is to be provided with a copy of the self-certification certificate and a BS:7671 electrical installation test certificate.

### LIGHTING EFFICIENCY

At least Mer of all new light fittings which are to be installed will be capable of taking lamps having a luminous efficiency greater than 40 lumens per curcuit watt e.g. Fluorescent and compact fluorescent lighting fittings meet this requirement. All external lighting to have lumps that do not exceed 150 watts and switch off when there is enough daylight and when not required at night.

# MASONRY

"Class B Englacering brickwork to be set in 1:1:4 morter. 20N concrete common brickwork and 7N concrete brickwork to be set in 1:4:4 morter. 2.8N blockwork to be set in 1:1:6 morter. Movement joints to be incorporated at max. distances as recommended by material/product supplier.

# GLAZING

Any glazed window area between floor level and 800mm above that level and ony glazed area between floor level and 1500mm above that level in a door and any glazed area within 300mm of door casing must be fitted with toughened safety glazs to suit table in paragraph 4 section 1. document "N" of 1991 Building Regulations. External Glazing to be 24mm gap double glazing ergon filled (low E) Pikington Kupnafloat or similar. U value 1.7W/m2K.

## CONCRETE

All concrete to be ready mixed. Designed Mixes to B.S. 5328, obtained from depot accredited by Quality Scheme for Ready Mix Concrete. All workmanship to comply with B.S. 5110 Part 1 Section 6.

## GRADE C20

For strip footings, padstones, unreinforced bases and unreinforced concrete. Min. comentitous content 220 kg/m3.

### GRADE C35

For floor slabs and reinforced concrete. Min. comentitous content, 300 kg/m3.

### ALL CONCRETE GRADES

Nominal max, aggregate size 20mm workability 60mm slump.

### REINFORCEMENT

Mesh to F.S. 4483, bars to B.S. 4449, bent and cut to B.S. 8666: 2000. Mesh lops 350mm.

### COVER

75 to trimmed earth faces, 40 to shuttered faces and to u/s flour slab, 50 to top faces, s.m.o,

WALL INSULATION TO WALLS SHOULD BE SUITABLE RIGID FOAM SOMM THICK OR BE PROVED BY OTHER MEANS TO COMPLY WITH A "U" VALUE OF 0.35Y/m2.
ROOF INBULATION SHOULD BE CONTERMED AS BEING FOSTIONED BETWEEN AND OVER THE CRILING JOISTS, 154MM IN-BETWEEN AND 15MM @ 15PP ABOVE PROVISION MUST BE MADE FOR LIMITING AIR LEAKAGE FROM THE BUILDING, BY LINKING CY INSULATION SLEMENTS AT THEIR JUNCTIONS AND THE GENERAL SEALING CY CONSTRUCTION JOINTS AND SERVICE PAPES WHERE THEY PASS THROUGH THE STRUCTURE.

WINDOWS DOUBLE GLAZED UNITS TO HAVE MIN. 166611 AIR CAP AND TO HAVE A LOW "o" COATHIG.

THE CONTRACTOR IS TO IDENTIFY THE EXACT LOCATION OF ALL UNDERGROUND SERVICES AND DRAINS,

THE COMPLACTOR SHALL PROVIDE ANY TEMPORARY PROPPING, NEEDLE BEAMS, PLANIGHT OF STRUCTURE ETC. NECESSARY TO MAINTAIN THE STABLITY OF THE EXISTING STRUCTURES AND OF THE EXCAVATIONS DURING THE COURTE OF THE WORKS.

THE GUIDANCE IN "BUILDING RESPARCH ESTABLISHMENT GOOD INTIDING GUIDES No. 1 & 21:- "PROVIDING TEMPORARY SUPPORT DURING WORK ON OPENINGS IN EXTERNAL WALLS! and "REMOVING INTERNAL LOAD-BEARING WALLS IN OLDER DWELLINGS!"

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