

**STRUCTURAL STEELWORK**

ALL WORK SHOULD COMPLY WITH BS5950 2003 UNLESS OTHERWISE SPECIFIED.  
 NO VARIATION TO THE DRAWINGS OR THIS SPECIFICATION MAY BE MADE WITHOUT APPROVAL.  
 NO WORK MAY BE SUB-LET WITHOUT PRIOR APPROVAL.  
 STEEL SECTIONS SHALL COMPLY WITH BS4-19 BSEN10055-6 OR BSEN10210 AS APPROPRIATE.  
 STEEL SECTIONS SHALL BE GRADE 43A TO BSEN100RS GRADE S275.  
 BLACK BOLTS AND NUTS SHALL BE BS7371-6 (MILD STEEL) AND OR GRADE 108 HSFG.  
 PLAIN AND TAPERED STEEL WASHERS FOR BOLTS SHALL BE TO BS7371-6.  
 ELECTRODES FOR METAL ARC WELDING SHOULD COMPLY WITH BSEN1011-2.  
 NO SITE WELDING SHALL TAKE PLACE UNLESS AUTHORISED.  
 ALL SITE DIMENSIONS SHALL BE VERIFIED BY THE FABRICATOR BEFORE FABRICATION IS COMMENCED.

**PROTECTION TO STEELWORK:**

INTERNAL CONCEALED STEELWORK TO BE AS FOLLOWS:

- PREPARATION: BLAST CLEAN TO SECOND QUALITY BS7079-A1
- PRIMER: ZINC PHOSPHATE PRIMER 40 MICRONS THICKNESS
- BARRIER COAT HIGH BUILD BITUMINOUS RUBBER PAINT 75 MICRON THICKNESS
- FINISH HIGH BUILD BITUMINOUS PAINT 75 MICRON THICKNESS

NOTE: IT IS ASSUMED THAT CLEANING WILL BE PERFORMED AFTER FABRICATION.  
 IF THE CONTRACTOR PROPOSES TO CLEAN BEFORE FABRICATION,  
 A PRE-FABRICATION PRIMER MUST BE USED IN ADDITION TO ALL THE ABOVE.

ALL CONNECTIONS SHALL BE PREPARED AND PAINTED TO THE SAME STANDARD AS THE ADJACENT STEEL.  
 ALL SEATINGS FOR BEAMS ON PAD-STONES TO HAVE A MORTAR BED OF MINIMUM THICKNESS 10MM.  
 MORTAR BEDDING AND DRY PACKING TO BE 1-2 SAND CEMENT GROUT.

ALL STEELWORK SHALL BE FABRICATED TO AN ACCURACY SO AS TO ENABLE ERECTION TO THE SPECIFIED TOLERANCES  
 TO TAKE PLACE WITHOUT INTRODUCING PERMANENT ERECTION STRESSES INTO THE STRUCTURE.  
 IN ADDITION, EACH FINISHED MEMBER SHALL INDIVIDUALLY COMPLY WITH THE FOLLOWING TOLERANCES:

- I) ON LENGTH: + 3MM
- II) TWIST AND DEVIATION FROM THE REQUIRED PROFILE SHALL NOT EXCEED 1 IN 1000.

FOLLOWING ERECTION, ANY BLEMISHES IN THE PAINT COATING ARE TO BE TOUCHED UP.  
 WHERE STANCHIONS ARE BUILT INTO THE CAVITIES OR EXTERNAL WALLS,  
 THESE ARE TO BE PAINTED WITH 2 FULL COATS OF BITUMINOUS PAINT, BEFORE BRICKWORK IS BUILT UP.  
 ALL STEEL BEAMS WHERE CASING IS TO BE PROVIDED ARE TO BE DRILLED IN THE CENTRE OF THE WEB AND  
 ONE FLANGE (T&B) AT MAX. 600MM CENTRES, AND AT 150MM FROM THE ENDS,  
 WITH 18MM DIA. HOLES FOR 16MM DIA. BOLTS FOR THE BOLTING ON OF NOGGINS, WALL PLATES, ETC.

SITE DRILLING MAY ONLY BE CARRIED OUT BY AGREEMENT OF THE S.O.

**STRUCTURAL TIMBER**

ALL STRUCTURAL TIMBERS ARE TO BE GRADE C18 TO TABLE 8 OF BS5268, AND PRESERVED AND BUILT INTO NEW WORK AND FIXED INTO GALVANISED MILD STEEL JOIST HANGERS CUT AND PINNED TO EXISTING WALLS.

JOISTS ARE TO BE DOUBLED UP BENEATH FIRST FLOOR PARTITIONS.  
 HERRINGBONE STRUTTING OF 50 X 38MM SOFTWOOD IS TO BE FIXED MID SPAN OF JOISTS  
 MILD STEEL GALVANIZED STRAPS 30 X 2.5 TO BE FIXED AROUND THE PERIMETER OF THE ROOF AND ATTIC FLOOR AND TO BE FIXED BETWEEN THE JOISTS AND STEEL BEAMS

**DORMER CONSTRUCTION TO BE:-**

- WALLS 150 X 50 STUDS AT 400 CENTRES
- HEAD AND SOLE PLATES 100 X 100 PLATES
- WALLS COVERED IN 12MM PLY EXTERNALLY

FLAT ROOF NO ACCESS 175 X 50 JOISTS AT 400 ROOF COVERED IN 19MM PLY  
 FLAT ROOF WITH ACCESS 225 X 50 JOISTS AT 400 ROOF COVERED IN 19MM PLY

PLATES TO BE FIXED TO STEEL BEAMS WITH M10 BOLTS AT 300 CENTRES OR SHOT FIRED.

ALL TIMBER TO BE FIXED TO EACH OTHER WITH NON FERROUS SCREWS OR IMPROVED NAILS

**BRICK/BLOCK SPECIFICATION**

CLAY FACING BRICKS TO BS EN 771-1 TO BE IN MIX 1:2:9 CEMENT:LIME:SAND.

BOND TO MATCH EXISTING OR AS SPECIFIED. JOINTS TO MATCH EXISTING.

COMMON BRICKWORK BELOW GROUND TO BE HD, SIZE 215X102X65,  
 MIX 1:1:6 CEMENT:LIME:SAND.

LOAD BEARING BLOCKWORK TO BE 215X450X100 IN 1:1:6 CEMENT:LIME:SAND  
 MINIMUM COMPRESSIVE STRENGTH 7.0N/MM<sup>2</sup>

NO.	Rev.	Date

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Job Title.
15 PROVOST ROAD LONDON NW3 4ST

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