



**UPGRADE OF EXISTING FLOORS**

Ensure first floor achieves modified half-hour fire resistance.  
 New second floor –Joists to be 50mm minimum from chimney breasts.  
 (joist size to structural engineer's details and calculations) Provide min 20mm t and g chipboard or timber board flooring. In areas such as kitchens, utility rooms and bathrooms flooring to be moisture resistant grade in accordance with BS EN 312). Identification marking must be laid upper most to allow easy identification. To upgrade to half hour fire resistance and provide adequate sound insulation lay minimum 150mm Rockwool insulating material or equivalent on chicken wire between joists and extended to eaves. Chicken wire to be fixed to the joists with nails or staples these should penetrate the joists side to a minimum depth of 20mm, in accordance with BRE-Digest 208 1988. Joists spans over 2.5m to be strutted at mid span use 38 x 38mm herringbone strutting or 38mm solid strutting (at least 2/3 of joist depth). Provide lateral restraint where joists run parallel to walls. Floors are to be strapped to walls with 1000mm x 30mm x 5mm galvanised mild steel straps or other approved in compliance with BS EN 845-1 at max 2.0m centres, straps to be taken across minimum 3 no. joists. Straps to be built into walls. Provide 38mm wide x ¼ depth solid noggins between joists at strap positions.

**UPGRADING SOLID PARTY WALL (cold adjoining space)**

The existing walls must be checked for stability and be free from defects as required by the Building Control Officer. Provide a scratch coat render to existing wall. Insulate wall on the warm side using 82.5mm Ecotherm Eco-Liner Dab insulated plasterboard. Plasterboard to be bonded, using dot and dab method, to the existing construction with proprietary adhesive at 300mm centres vertically/horizontally and in accordance with manufacturer's instructions. Tape joints and seal perimeter edges with mastic, to provide a vapour control layer (VCL). All work in accordance with BS 8212 (Code of practice for dry lining).

**PITCHED ROOF**

Pitch 22-45° (imposed load max 0.75 kN/m² - dead load max 0.75 kN/m²)  
 To achieve U-value 0.15 W/m²K  
 Timber roof structures to be designed by an Engineer in accordance with NHBC Technical Requirement R5 Structural Design. Calculations to be based on BS EN 1995-1-1. Roofing tiles on 25 x 38mm tanalised sw treated battens on breathable sarking felt to relevant BBA Certificate. Supported on grade 170mm C24 rafters at max 400mm centres max span 3.47m. Rafters supported on 100 x 50mm treated sw wall plates. Allow min 20mm air space to allow for drape of breathable felt. Insulation to be 130mm Ecotherm Eco-Versal between rafters and 50mm under. Fix 12.5mm foil backed plasterboard (joints staggered) to the underside of all ceilings using galvanized plasterboard nails. Finish with 5mm skim coat of finishing plaster.  
 Restraint strapping - Ceiling joists tied to rafters (if raised collar roof consult structural engineer). 100mm x 50mm wall plate strapped down to walls. Ceiling joists and rafters to be strapped to walls and gable walls, straps built into cavity, across at least 3 timbers with noggins. All straps to be 1000 x 30 x 5mm galvanized straps or other approved to BSEN 845-1 at 2m centres.

● Provide interconnecting automatic mains operated fire detection system  
 To be mains operated and interlinked with battery back up to Grade D Category LD3 standard, in accordance with BS 5839-6 (2004). An Installation and Commissioning certificate must be deposited with Building Control in accordance with Approved Doc, B Volume 1, Section 1.23

THIS DRAWING MUST NOT BE SCALED  
 (Unless for planning authority purposes)  
 PRIOR TO THE COMMENCEMENT OF ANY WORKS THE BUILDER IS TO CHECK AND/OR DETERMINE ALL CONSTRUCTION DETAILS INCLUDING CHECKING EXISTING SITE LEVELS AND DIMENSIONS. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS, CONSTRUCTION NOTES AND/OR PROJECT SPECIFICATION. ALL DISCREPANCIES SHOULD BE REPORTED IMMEDIATELY.

CDM Regulations 2007. Party Wall Act 1996, Clients and contractors are reminded that the project is within the scope of these regulations MBL Associates Ltd engaged as designers will not accept any liability for failure of these parties to carryout their duties as required by these statutes

PLANNING CLIENTS & CONTRACTORS ARE REMINDED THAT IF THE PROJECT REQUIRES AN APPLICATION FOR PLANNING, THIS APPLIES TO PRIOR APPROVAL, LAWFUL DEVELOPMENT APPROVAL, PERMITTED DEVELOPMENT RIGHTS TO RECENTLY BUILT PROPERTY'S AND HOUSES IN CONSERVATION AREAS. MBL ASSOCIATES Ltd WILL NOT BE RESPONSIBLE IF WORKS COMMENCE AGAINST THIS ADVICE AND ENFORCEMENT ACTION IS TAKEN AGAINST YOU. MBL ASSOCIATES Ltd ADVISE THAT ALL CERTIFICATION OF PLANNING APPROVAL HAS BEEN GRANTED BEFORE ANY BUILDING WORK COMMENCES.

ALL STRUCTURAL INFORMATION TO BE IN CONNECTION WITH STRUCTURAL ENGINEERS CALCULATION AND DRAWINGS  
 COPYRIGHT MBL ASSOCIATES LIMITED

**ADDRESS**

176, Henley Avenue,  
 Sutton,  
 Greater London  
 SM3 9SA

**DESCRIPTION**

PROPOSED LOFT FLOOR

<b>Scale:</b> 1:50 @ A3	<b>Date:</b> 18/01/2024
----------------------------	----------------------------

<b>Drawing No</b>	HA176/005
-------------------	-----------