

Notes:

1. Copyright of this drawing remains the sole property of Bellis Cooley Architects unless otherwise assigned in writing.

2. Do not scale from this drawing, figured dimensions are to be worked in all cases with any discrepancies reported to the Architect prior to commencement of any work.

3. Setting-out is based on outline survey only. All dimensions to be checked on site prior to construction/ordering.



EXISTING WALL ENHANCEMENT

WALL TYPE w1:
Sika-1 Structural Waterproofing System, nominal 20mm thick, installed to manufacturer's guidelines and recommendations.

Location:- All existing basement walls

WALL TYPE w2:
Existing masonry wall with Sika-1 Structural Waterproofing, plus Celotex PL 4000 Insulation, 65mm thick, bonded to 12.5mm tapered edge insulation. To be mechanically fixed on min, 25mm battens.

Performance: - 0.30W/m2K U - value or better
Location: - Unit 1 living area

WALL TYPE w2a:
Existing masonry wall (with plaster finish) plus Celotex PL 4000 Insulation, 65mm thick, bonded to 12.5mm tapered edge insulation, on 15mm dabs.

Performance: - 0.30W/m2K U - value or better
Location: - Existing external walls

WALL TYPE w3:
Independent metal stud partition to party walls consisting of min, 50mm metal stud with 2 layers 12.5mm soundboard, 50mm mineral wool insulation between studs & 15mm air gap between existing wall and stud partition.

Performance: - min, Rw 43 dB sound reduction
Location: - Party walls up to 3400mm between floors

WALL TYPE w3a:
As w3, with 90mm metal studs against deflection

Location: - Party walls up to 6000mm between floors

INTERNAL PARTITIONS

WALL TYPE w5:
Metal stud partition, 154mm thick, consisting of 90mm studs with 2 layers 15mm SoundBloc each side, 3x25mm Isover APR 1200 or similar within the cavity.

Performance: - Rw 43 dB sound reduction.
Fire rating: - min. 60 minutes

WALL TYPE w6:
Metal stud partition 105mm thick, consisting of 70mm studs, with 1 layer 15mm SoundBloc each side, 25mm Isover APR 1200 or similar within cavity.

Fire ratings: - min. 30 minutes

WALL TYPE w6a:
As w6, without insulation

WALL TYPE w6b:
As w6a, with additional (under) layer 15mm plywood either side, for improved strength and durability. Wall to be 135mm thick.

Location: - Bin and cycle store partitions

WALL TYPE w7:
Metal stud partition, nominal 120mm thick, consisting of 70mm metal stud with 1 layer 15mm MoistureShield either side. Additional (under) layer 15mm plywood to all tiled wall areas for additional strength. 3x25mm Isover APR 1200 or similar within the cavity.

Wall thickness to be 135mm thick where walls are tiled both sides.

Location: - All wet areas, including bathrooms and WCs.
Fire rating: - min. 30 minutes

NEWLY CONSTRUCTED WALLS

WALL TYPE w4:
Masonry cavity wall nominal 300mm thick, consisting of 103mm external brickwork, 100mm blockwork inner leaf with wet plaster and minimum 25mm Celotex PL 4000 bonded to 12.5mm tapered edge plasterboard on dabs. Cavity to be partially filled with 75mm Celotex CG5000 insulation.

Performance: - 0.28 W/m2K U - value or better
Location : - New external walls to rear elevation

WALL TYPE w4a:
215mm solid brickwork with wet plaster internally, plus Celotex PL4000 Insulation, 65mm thick, bonded to a layer of 12.5mm tapered edge plasterboard and mechanically fixed on 25mm battens.

Performance: - 0.28 W/m2K U - value or better & min, Rw 43 dB sound reduction
Location: - Party walls

FLOORS

FLOOR TYPE f1:
To consist of Tarmac Truflo screed min, 65mm thick on Polythene 500 gauge separating layer with 85mm Celotex GA 4000 Insulation (or similar approved) on DPM applied to ground bearing concrete slab

DPM to be RIW 226 Sheet Seal.
Floor finish TBC.

Location: - Lower ground bearing floor
Performance: - To achieve 0.22 W/m2.K U value or better

FLOOR TYPE f2:
To consist of 28mm thick screed board on 22mm OSB fixed to solid timber joists as per structural engineers specification. 2 layers 12.5mm staggered acoustic plasterboard on resilient bars to underside of joists, 100mm mineral wool insulation between joists, Ceiling void to suit.

Alternatively, to be min,18mm chipboard on 15mm acoustic mat on 15mm OSB fixed to solid timber joists as per structural engineers specification, 2 layers 12.5mm staggered acoustic plasterboard on resilient bars to underside of joists, 100mm mineral wool insulation between joists. Ceiling void to suit.

Floor finish TBC.

Location: - Intermediate floors
Performance: -
1. 43dB D nTw + Ctr Min airborne sound transmission (site test result),
2. 64dB L nTw Max. impact sound transmission (site test result).

Floor construction to achieve 1hr fire resistance

NOTE:-

SIKA TANKING TO BE APPLIED TO ALL BASEMENT WALLS INTERNALLY, IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND RECOMMENDATIONS

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CONTRACT

Redevelopment of
133 Kings Cross Road WC1X 9BJ

DRAWING TITLE

Proposed Plans

DRAWN BY	DATE	CHECKED
AT	Feb 2012	RC
SCALE	SIZE	STATUS
1:100	A3	Building Control
DRAWING No		REV

0548 - 104.1

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SECTION A-A