

HYDRONAIL TRUSSES AT 450/600 (1'6"/2'0") CRS. DIAGONALLY + LATERALLY BRACED TO BS 5268 PART 3 (1985) + VERTICALLY STRAPPED TO WALLS. BREATHABLE FELT, 40x25 (1/2"x1") BATTENS (450 CRS) 50x25 (2"x1") FOR 600 CRS. DOUBLE ROMAN CEMENT TILES. EXIST ROOF TILES REPLACED AS ABOVE, + WITH 50x25 (2"x1") BATTENS. 30° PITCH

2 OFF VELUX SUN TUNNELS. 250(10) DIA. DOUBLE LAYER DIFFUSER. LOCATED ON 1ST FLOOR LANDINGS

VENT STACK TO EXIT ROOF VIA SOAKER. AVOID VALLEY

225(9) R.C. OR CATINIC BXD 100 LINTEL TO EXIST OUTER LEAF IN BATHROOM. + 100(4) CONC BLOCK UP TO RIDGE PURLIN. 100(4) KINGSPAN K8 TO EXIST ROOF VOID SIDE U VALUE 0.18

VENT STACKS + OTHER PIPE WORK TO BE ENCASED IN 125(1/2) P/B THROUGH DWELLING

ALL NEW R.W. + FOUL DRAINS OF 100(4) DIA U.PVC. REALIGNED AS REQUIRED. BRIDGED BY R.C. LINTELS THROUGH WALLS + ENCASED IN PER GRAVEL UNDER FLOORS. NEW I.C. OF U.PVC TYPE WITH AIR-TIGHT SCREW DOWN COVERS. NOMINAL FALLS OF NEW DRAINS, 1 IN 80 TO 1 IN 40

LEAN MIX CONC INFILL UP TO 600(20) BELOW FLOOR LEVEL (TYP)

150(6) HARDCORE SCREENED WITH SAND 1200 GAUGE VISQUEEN DPM. 150(6) CONC FLOOR TO GARAGE. 100(4) KINGSPAN K3. 500 GAUGE VAPOUR BARRIER + 100(4) CONC TO HABITABLE AREAS + INCLUDING UNDER FLOOR HEATING. MIN 25(1) PERIMETER INSULATION. U VALUE 0.18

BAT STRAP RESTRAINTS OF 5/8 AT MAX 2.0(66) CRS TO ALL ROOFS UPPER ZEILINGS + FIRST FLOORS

CEILING OF 500 GAUGE VAPOUR BARRIER + 12.5(1/2) PLASTERBOARD + SKIM UNDER. 100(4) MINERAL FIBRE QUIET BETWEEN JOISTS + 200(8) OVERALL U VALUE 0.15 (EXIST LOFT ALSO)

10(3/8) AIRCAP CONTINUOUS ALONG EAVES FIT FLYSCREENS

175x47 (6/8"x1/8") RAFTERS AT 400(16) CRS. ONTO 150x50 (6"x2") WALLPLATE SECURED TO EXIST WALL BY M12 WALL-BOLTS AT MAX 600(24) CRS. PAIRED TO SIDES + AS TRIMMERS TO ROOF LIGHTS. BREATHABLE FELT, 40x25 (1/2"x1") BATTENS + REDLAND RECENT CEMENT TILES (THROUGH COLOURED) 100(4) HEADLAP 15° PITCH [ABSOLUTE MIN 12.5°]

175x47 (6/8"x1/8") CEILING JOISTS AT 400(16) CRS. IN JOIST HANGERS ONTO SAME SIZE WALLPLATE SECURED BY M12 WALLBOLTS AT MAX 600(24) CRS. 500 GAUGE VAPOUR BARRIER + 9.5(3/8) P/B + SKIM UNDER. JOISTS PAIRED TO SIDES + AS TRIMMERS TO ROOF LIGHT OPENINGS. 150(6) M.F. QUILT BETWEEN JOISTS + 150(6) OVERALL U VALUE 0.15

180x980 (27"x33") VELUX ROOF LIGHTS MK04. GLAZING TYPE QGU.0070. U VALUE 1.3 (OLD SYSTEM) 2 OFF.

4/16 LEAD FLASHING + D.P. TRAY TO CAVITY

10(3/8) AIRCAP ALONG EAVES FIT FLYSCREENS

100x50 (4"x2") WALLPLATE SECURED BY BATSTRAPS AT MAX 2.0 (66) CRS

115(4/2) GUTTERING. 65(2 1/2) DOWN-PIPES IN U.PVC. ON U.PVC FACIAS. TO DISCHARGE INTO BACK INLET GULLY

150(6) R.C. LINTELS TO WINDOWS + DOORS CATINIC BOX LINTEL CN99/1644C TO BI-FOLD DOORS (219 DEEP). VERTICAL + LINTEL DPC

675x225 (2'3"x9") CONC STRIP FOUNDATIONS FOR 2 STOREY CAVITY WALLS. 675x200 (2'3"x8") FOR SINGLE STOREY + TO UNDERPIN EXIST FOUND'S AT JUNCTIONS. + EXTEND DOWN TO BELOW EXIST 150(6) Ø DRAIN. CAVITY WALLS OF 2 LEAF 100(4) CONC BLOCK TIED INTO EXIST WALLS WITH 'CROCODILE' 5/8 PLATES + SCREWS. 115(4/2) CAVITY. CONTINUOUS WITH ANY EXIST CAVITIES. FILLED SOLID WITH CONC UP TO 250(10) BELOW O.P.R. FLOOR + SEALED OFF AT EAVES. 350(10) LONG S/S WALLTIES (STAFIX RT2 OR SIMILAR) AT 750(26) CRS HORIZONTALLY. 450(16) CRS VERTICALLY. + WITHIN 150(6) EVERY BLOCK COURSE OF OPENINGS. 70(2 3/4) KINGSPAN K8 TO INNER LEAF IN CAVITY (EXCEPT GARAGE) TO LEAVE 45(1 3/4) AIRCAP. DRYLINED INTERNAL WITH 40 (1 1/4) BACKED 12.5(1/2) P/B [KINGSPAN KIT] ON PLASTER DABS + SKIM. 19(3/4) RENDER/KRAN EXTERNAL U VALUE 0.18. CAVITY INSULATION TO EXTEND DOWN CAVITY 225(9) BELOW FLOOR LEVEL [ALSO SEE NOTE 13]

EXISTING 150(6) DIA SURFACE WATER DRAIN TO BE REPLACED WITH 160 DIA 'ULTRA RIB' UNDER EXTENSIONS. BRIDGED BY R.C. LINTELS THROUGH WALLS + SURROUNDED BY PER GRAVEL UNDER FLOORS. IF UNITED UTILITIES REQUIRE AN ACCESS EACH SIDE OF BUILDING - AN ADDITIONAL I.C. TO BE PROVIDED TO U.T. SPEC (APPROX 1050(3'6") INVERT)

SECTION B.B

SCALE 1:50

- ALL TIMBER TO BE TREATED WITH A PRESERVATIVE.
- CAVITIES AROUND OPENINGS, INCLUDING LINTELS, TO BE INSULATED TO PREVENT 'COLD BRIDGING' + CLOSED WITH MIN 1/2 HOUR FIRE RESISTANT MATERIAL. DRYLINING TO RETURN TO WINDOW/DOOR FRAMES, WINDOWS, DOORS + ROOFLIGHTS TO BE DRAUGHT SEALED + FRAMES SEALED INTO WALLS/ROOF WITH MASTIC.
- ALL ELECTRICAL WORK TO BE DESIGNED, INSTALLED, INSPECTED + TESTED IN ACCORDANCE WITH B.S. 7671 (I.E.E. WIRING REQS - LATEST EDITION) + WORK UNDERTAKEN BY AN INSTALLER REGISTERED UNDER SUITABLE ELECTRICAL SELF CERTIFICATION SCHEME, OR QUALIFIED PERSON SUPPLYING A CERTIFICATE OF COMPLIANCE TO BUILDING CONTROL UPON COMPLETION.
- ALL ELECTRICAL SOCKETS + SWITCHES TO BE LOCATED BETWEEN 450 + 1200 (1'6" + 3'11") ABOVE FLOOR
- PROVIDE INTERNAL LIGHT FITTINGS CAPABLE OF TAKING EFFICIENT LAMPS, MIN 75 LUMENS PER CIRCUIT WATT. EXTERNAL LIGHTS TO BE EITHER EFFICIENT AS ABOVE, OR ON A TIMER + AUTOMATICALLY EXTINGUISHED IN DAYLIGHT
- REINFORCING TO CONCRETE LINTELS TO BE MIN 2 OFF M.S. BARS IN LOWER PORTION
- GLASS PANELS IN DOORS, + ANY WINDOW PANEL LESS THAN 800 (2'7 1/4") ABOVE FLOOR, TO BE TOUGHENED / LAMINATED TO BS 6206 (A81)
- INTERNAL DOORS TO BE MIN 806 (2'7 3/4") TO GIVE MIN 'CLEAR OPENING' OF 750 (2'5 1/2"). EXTERNAL DOORS, MIN 838 (2'9") TO GIVE MIN 'CLEAR OPENING' OF 800 (2'7 1/2").
- BEDROOMS TO HAVE OPENING WINDOWS EQUAL TO AT LEAST 1/20 FLOOR AREA, + MIN 8000mm² (13m²) TRICKLE VENTILATION.
 - LIVING/DINER/KITCHEN TO HAVE OPENING WINDOWS/DOORS/ROOFLIGHTS EQUAL TO AT LEAST 1/20 F/A, + MIN 3000mm² (13m²) TRICKLE VENTS [ACTUAL 5 OFF WITH ROOFLIGHTS]
 - KITCHEN TO ALSO INCLUDE 60 LITRE/SEC EXTRACTION FAN (30 LITRE/SEC IF COOKER HOOD) - MAX 45 DBL AT NORMAL WORKING
 - BATH/SHOWER ROOMS, ANY SIZE OPENING, 4000mm² (6 1/2 m²) TRICKLE VENTILATION + 15 LITRE/SEC EXTRACTION FAN.
 - GROUND FLOOR W.C., 15 LITRE/SEC EXT^N FAN TO OPERATE BY LIGHT SWITCH WITH 15 MINS OVER-RUN.
 - STUDY, OPENING WINDOW AT LEAST 1/20 F/A, + 8000mm² (13m²) TRICKLE VENT.
- ALL BEDROOMS TO INCLUDE AN OPENING WINDOW PANEL WITH A MIN 'CLEAR OPENING' AREA OF 0.33m², + WITH A MIN CLEAR OPENING DIMENSION OF 450 (1'6") IN ANY DIRECTION, EG 750x450 (2'6"x1'6") OR 600(2'0") SQ. AS ALTERNATIVE MEANS OF ESCAPE IN CASE OF FIRE, WITH BOTTOM OF OPENING NO MORE THAN 1100 (3'7 1/4") ABOVE FLOOR.
- A MAINS OPERATED FIRE DETECTION/ALARM SYSTEM TO BE INSTALLED TO B.S. 5839-6, 2004, GRADE 'D', CATEGORY LD3, WITH SMOKE ALARMS TO B.S. EN 14604, (SHOWN ⑤) + HEAT ALARMS TO BS 5446-2, (SHOWN ⑥) LOCATED ON CEILINGS, MIN 300(12) FROM WALLS + LIGHT FITTINGS, INTERCONNECTED TO ALL SOUND WITH DETECTION BY ANY ONE UNIT. MAINS SUPPLY TO BE A SINGLE INDEPENDANT CIRCUIT, + DETECTORS TO HAVE A STANDBY POWER SUPPLY, EG BATTERY.
- HOME OWNER TO BE PROVIDED WITH AN 'EXISTING HOME' VENTILATION GUIDE, EXPLAINING HOW TO USE + VENTILATE EFFICIENTLY, BY BUILDER PRIOR TO COMPLETION
- ALL DRYLINING BOARDS TO HAVE JOINTS + EDGES TAPE SEALED + ALL ELECTRICAL BACKBOXES, CONDUITS ETC. TO BE SEALED WITH MASTIC/FOAM TO MAINTAIN AIRTIGHTNESS
- ALL DRAINAGE TO BE TO THE SATISFACTION OF LOCAL AUTHORITY + UNITED UTILITIES, EXISTING SEPERATE FOUL + SURFACE WATER SEWERS SERVE.
- HOT WATER, + SPACE HEATING TO BE PROVIDED BY NEW AIR SOURCE HEAT PUMP/ELECTRICITY, WITH UNDER FLOOR HEATING, THERMOSTATICALLY / ZONE CONTROLLED TO GIVE NOMINAL 21°C TO GROUND FLOOR + 18°C TO 1ST FLOOR, + SYSTEM DESIGNED TO RUN AT MAX FLOW TEMP OF 55°C (OR LOWEST POSSIBLE DESIGN TEMP IF 55°C NOT POSSIBLE, HEAT PUMP + ASSOCIATED SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PARA 6.36 TO 6.43, LI(8) + L2, + UNDERFLOOR HEATING WITH PARA 6.23 TO 6.32, LI(8), L2(4). HOT WATER/HEATING PIPEWORK + STORAGE TO BE INSULATED IN ACCORDANCE WITH PARA 4.24 TO 4.32, TABLES 4.4 + 4.5 OF PART 4.9A

ALL WINDOW, BI-FOLD + ROOFLIGHTS TO INCLUDE TRICKLE VENTILATION INCLUDING ANY REPLACEMENT