



Mitsubishi ecodan
8.5kw heat pump



FRONT ELEVATION

SIDE ELEVATION

REAR ELEVATION

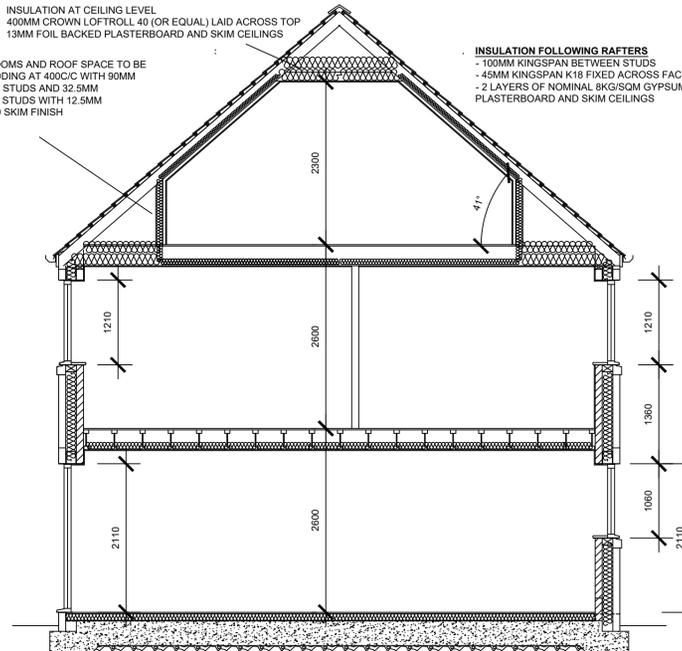
SIDE ELEVATION



FRONT ELEVATION

SIDE ELEVATION REAR ELEVATION

SIDE ELEVATION



INSULATION AT CEILING LEVEL
400MM CROWN LOFTROLL 40 (OR EQUAL) LAID ACROSS TOP
13MM FOIL BACKED PLASTERBOARD AND SKIM CEILINGS

INSULATION FOLLOWING RAFTERS
- 100MM KINGSPAN BETWEEN STUDS
- 45MM KINGSPAN K16 FIXED ACROSS FACE
- 2 LAYERS OF NOMINAL 8KG/30M GYPSUM BASED
PLASTERBOARD AND SKIM CEILINGS

WALLS BETWEEN ROOMS AND ROOF SPACE TO BE
100X50MM S.W. STUDDING AT 400C/C WITH 90MM
KINGSPAN K19 OVER STUDS WITH 12.5MM
KINGSPAN K19 OVER STUDS WITH 12.5MM
PLASTERBOARD AND SKIM FINISH

SECOND FLOOR CONSTRUCTION- 22MM TONGUED
AND GROOVED MOISTURE RESISTANT CHIPBOARD
FIXED WITH APPROPRIATE ADHESIVE AND
SCREWED DOWN AT 200MM CENTRES AT THE
PERIMETER AND 300MM CENTERS ON
INTERMEDIATE SUPPORT USING 51MM GYPROC
DRYWALL TIMBER SCREWS ON FLOOR JOISTS BY
SPECIALIST
100MM ROCKWOOL QUILT INSULATION BETWEEN
JOISTS AND 13MM PLASTERBOARD AND SKIM
CEILING

FIRST FLOOR CONSTRUCTION- 22MM TONGUED
AND GROOVED MOISTURE RESISTANT CHIPBOARD
FIXED WITH APPROPRIATE ADHESIVE AND
SCREWED DOWN AT 200MM CENTRES AT THE
PERIMETER AND 300MM CENTERS ON
INTERMEDIATE SUPPORT USING 51MM GYPROC
DRYWALL TIMBER SCREWS ON FLOOR JOISTS BY
SPECIALIST
100MM ROCKWOOL QUILT INSULATION BETWEEN
JOISTS AND 13MM PLASTERBOARD AND SKIM
CEILING

GROUND FLOOR CONSTRUCTION TO BE 20MM T&G
FLOORING BOARD ON 500 GAUGE, 125 MICRON
VAPOUR BARRIER ON 125MM KINGSPAN K3 INSULATION
ON 2000G VISQUEEN RADON BARRIER/DPM ON 1
CONCRETE FLOOR SLAB AND RAFT FOUNDATION ALL
TO STRUCTURAL ENGINEERS DETAILS

PITCHED ROOF
SLATE TO MEET PLANNING CONDITIONS ON 25X50MM TAN SW BATTENS
ON BREATHER FELT ON ROOF CONSTRUCTION TO ENGINEERS DETAILS.
MAINTAIN A 50MM AIR GAP ABOVE INSULATION TO VENTILATE ROOF.
PROVIDE OPENING AT EAVES LEVEL AT LEAST EQUAL TO CONTINUOUS
STRIP 25MM WIDE AND 5MM WIDE AT RIDE
100MM X 50MM WALL PLATE STRAPPED DOWN TO WALLS WITH 30X55MM
GALVANISED MS STRAPS AT 1200C/C
100MM UPVC GUTTER AND 68MM RWPS ON UPVC FASICA

INSULATION AT CEILING LEVEL
400MM CROWN LOFTROLL 40 (OR EQUAL) LAID ACROSS TOP
13MM FOIL BACKED PLASTERBOARD AND SKIM CEILINGS
WALLS BETWEEN ROOMS AND ROOF SPACE TO BE 100X50MM S.W.
STUDDING AT 400C/C WITH 90MM KINGSPAN BETWEEN STUDS AND
32.5MM KINGSPAN K19 OVER STUDS WITH 12.5MM PLASTERBOARD AND
SKIM FINISH

EXTERNAL WALL CONSTRUCTION (TO BE CONFIRMED)
OUTER LEAF OF FACING BRICKWORK OR STONE AS SHOWN
WITH MOVEMENT JOINTS, 150MM DRITHERM 32 CAVITY
WALL BATT, 100MM PLASPOR AGLITE ULTIMA®
BLOCKWORK INNER LEAF
ALL EXTERNAL CAVITY WALLS TO BE DOT AND DABBED
WITH PLASTERBOARD & SKIM
STAINLESS STEEL WALL TIES TO BE PROVIDED AT 450MM
C/C VERTICALLY & 700MM C/C HORIZONTALLY AND EVERY
BLOCK AT REVEALS
NOTE - FISH TAIL TIES MUST NOT BE USED.

DPC 150MM MIN
ABOVE GROUND
WEAK MIX CAVITY FILL TO WITHIN 75MM OF G.L.
BUT NOT LESS THAN 225MM BELOW D.P.C.
D.P.C IN WALLS MINIMUM 150MM ABOVE
EXTERNAL GROUND LEVEL
7N SOLID BLOCKS BELOW D.P.C LEVEL

GENERAL NOTES

- ALL ROOF TILES TO BE NAILED.
 - ALL RAFTERS/TRUSSES TO BE CLIPPED TO WALL PLATE.
 - 100 X 50MM SOFT WOOD WALL PLATE STRAPPED DOWN AT MAX 2M C/C WITH 30 X 5MM GALVANISED MILD STEEL STRAPS TAKEN DOWN WALL MIN 900MM AND PLUGGED AND SCREWED INTO WALL.
 - 30 X 5MM GALVANISED MILD STEEL STRAPS TO BE PROVIDED AT 2M C/C IN THE FOLLOWING LOCATIONS:
 - WHERE FIRST FLOOR JOISTS SPAN PARALLEL TO THE EXTERNAL WALL.
 - WHERE RAFTERS MEMBERS OF TRUSSES SPAN PARALLEL TO THE EXTERNAL WALL.
 - WHERE CEILING TIES/FLOOR MEMBERS OF TRUSSES SPAN PARALLEL TO THE EXTERNAL WALL.
 - STRAPS TO BE TAKEN OVER AND SCREWED TO MIN 3NO RAFTERS/JOISTS AND BUILT IN WALL. 100 X 50MM NOGGIN BETWEEN MEMBERS WHERE STRAPS OCCUR.
 - INFILTRATION OF COLD AIR TO BE LIMITED BY:
 - ALL GAPS BETWEEN DRY LININGS & MASONRY WALLS TO BE SEALED
 - ALL VAPOUR CONTROL LAYERS TO BE SEALED
 - DRAUGHT STRIPS TO BE FITTED TO ALL EXTERNAL DOORS, WINDOWS AND ROOF LIGHTS
 - BOXING TO CONCEALED SERVICES TO BE SEALED AT FLOOR AND CEILING LEVEL.
 - PART G WATER EFFICIENCY CALCULATIONS TO BE SUBMITTED 28 DAYS PRIOR TO PLUMBING WORK COMMENCING ON SITE.
 - WHOLESOME WATER SUPPLY TO BE PROVIDED BY THE LOCAL WATER SUPPLY UNDERTAKER.
 - ALL BATHS ARE TO BE FITTED WITH A SUITABLE DEVICE TO LIMIT THE HOT WATER TEMPERATURE TO A MAXIMUM OF 48 DEG C.
 - HOT WATER TAPS TO BE INSTALLED ON THE LEFT.
 - A NOTICE CONFIRMING THAT THE HOT WATER SYSTEM HAS BEEN PROPERLY COMMISSIONED, AND ISSUED BY A PERSON COMPETENT TO DO SO, IS TO BE PROVIDED ON COMPLETION.
- WINDOWS**
- ALL WINDOWS TO HAVE 9000MM² TRICKLE VENTS.
 - WINDOWS IN HABITABLE ROOMS TO HAVE 1/20TH FLOOR AREA OPENING LIGHTS AT HIGH LEVEL (TYPICALLY 1750MM ABOVE FIRST FLOOR LEVEL).
 - WINDOWS TO SANITARY ACCOMMODATION TO HAVE WINDOWS WITH MINIMUM 1/20TH FLOOR AREA OPENING LIGHT OR MECHANICAL VENT (AS DESCRIBED BELOW)
- MECHANICAL VENT**
- MECHANICAL EXTRACT TO EXTERNAL AIR TO BE PROVIDED AS FOLLOWS:
 - KITCHEN = 30 LITRES/SECOND IF PROVIDED ADJACENT HOB OR 60 LITRES/SECOND ELSEWHERE
 - UTILITY ROOM = 30 LITRES/SECOND
 - BATHROOM = 15 LITRES/SECOND
 - SANITARY ACCOMMODATION = 6 LITRES/SECOND WITH FAN LINKED TO LIGHT SWITCH, WITH 20 MINUTE OVER-RUN
- ELECTRICAL WORK TO BE CERTIFIED UNDER THE 'COMPETENT PERSONS SCHEME' AND FULL CERTIFICATION OF THE DESIGN/INSPECTION AND TESTING IS TO BE PROVIDED TO THE LOCAL AUTHORITY FOR APPROVAL ON COMPLETION.
 - ELECTRICAL SWITCHES AND SOCKETS TO BE LOCATED MINIMUM 450MM AND MAX 1200MM ABOVE FINISHED FLOOR LEVEL.
- SMOKE ALARMS**
- MAINS OPERATED SMOKE ALARMS TO BS 5446. ALL ALARMS TO BE LINKED AND ARE TO BE WIRED FROM THE MAIN DISTRIBUTION BOARD ON A SEPARATE CIRCUIT. ALARMS TO BE INSTALLED IN ACCORDANCE WITH PART B1 OF THE BUILDING REGULATIONS. ALL ALARMS TO HAVE BATTERY BACK-UP
- HEATING**
- ALL DETAILS TO BE SUBMITTED FOR APPROVAL.
 - ALL WORKS TO BE CARRIED OUT BY A GAS SAFE PERSON
- CO**
- CARBON DIOXIDE DETECTOR FITTED IN EVERY ROOM THAT IS: USED PARTLY OR WHOLLY AS LIVING ACCOMMODATION, AND: CONTAINS ANY APPLIANCE WHICH BURNS, OR IS CAPABLE OF BURNING FUEL.
- ON COMPLETION THE DEVELOPER WILL BE REQUIRED TO PROVIDED A HOME USER GUIDE TO BE ALONG WITH PHOTOGRAPHIC EVIDENCE OF THERMAL BRIDGE DETAILS.

- THERMABATE PREFORMED REVEAL PANELS OR EQUALLY APPROVED INSULATED CAVITY CLOSERS TO BE BUILT IN TO ALL REVEALS.
 - D.P.C. TO BE BUILT INTO ALL WALLS MINIMUM 150MM ABOVE GROUND LEVEL.
 - D.P.C. TO BE BUILT INTO HEADS & REVEALS OF ALL OPENINGS IN CAVITY WALLS.
 - I.G. HI-THERM LINTELS TO BE BUILT IN ABOVE ALL OPENINGS IN CAVITY WALLS. MINIMUM 150MM END BEARING AND TRAY D.P.C. OVER
 - LINTEL TO INCORPORATE WEEP HOLE DUCTS AT 1M C/C MIN. 2NO PER OPENING.
 - NAYLOR R6 LINTELS OVER OPENINGS IN 100MM INTERNAL BLOCKWORK WALLS.
 - ALL CAVITIES TO BE CLOSED AT EAVES & VERGES.
 - 7N SOLID BLOCKWORK BELOW D.P.C. LEVEL.
- DRAINAGE & WASTE WASTE SIZES**
- SINKS 38 MM DIAMETER
 - BATH 38 MM DIAMETER
 - BASINS 32 MM DIAMETER
 - SHOWER 38MM DIAMETER
 - ALL FITTED WITH MINIMUM 75MM DEEP SEAL TRAPS
- 100MM DIAMETER SOIL & VENT PIPE TO TERMINATE MINIMUM 900MM ABOVE OPENING LIGHTS AND TO BE FITTED WITH DURABLE CASE.
 - DRAINS TO HAVE LINTEL OVER WHERE PASSING THROUGH WALLS
 - DRAINS WITHIN 1200MM OF BUILDING(S) TO BE ENCASED IN CONCRETE TO UNDER SIDE OF FOUNDATIONS
 - NEW MANHOLES TO BE BUILT UP, IN 225MM CLASS B ENGINEERING BRICKWORK, OFF 150MM CONCRETE BASE.
 - WASTE TO DISCHARGE INTO GULLIES ABOVE WATER LEVEL AND BELOW GRATE LEVEL
 - NO WASTE TO DISCHARGE INTO S.V.P. WITHIN 200MM OF W.C. CONNECTION.
- NEW WINDOWS TO HAVE PVC/TIMBER FRAMES WITH A MAX 'U' VALUE OF 1.2**
- GLAZING TO BE IN ACCORDANCE WITH PART K OF THE BUILDING REGULATIONS. AREAS TO HAVE SAFETY GLAZING (CRITICAL LOCATIONS) ARE BETWEEN FLOOR LEVEL AND 800MM ABOVE THAT LEVEL IN INTERNAL AND EXTERNAL WALLS AND BETWEEN FLOOR LEVEL AND 1500MM ABOVE THAT LEVEL IN DOORS, SIDE SCREENS OR PANEL CLOSE TO THE EDGE OF THE DOOR.
- DPC**
- PROVIDE HORIZONTAL STRIP POLYMER (HYLOAD) DAMP PROOF COURSE TO BOTH INTERNAL AND EXTERNAL SKINS MINIMUM 150MM ABOVE EXTERNAL GROUND LEVEL
- NEW DPC TO BE MADE CONTINUOUS WITH FLOOR DPM. VERTICAL DPC TO BE INSTALLED AT ALL REVEALS WHERE CAVITY IS CLOSED.
- WALL TIES**
- ALL WALLS CONSTRUCTED WITH STAINLESS STEEL VERTICAL TWIST TYPE RETAINING WALL TIES BUILT IN AT 750MM CTRS HORIZONTALLY, 450MM VERTICALLY AND 225MM CTRS AT REVEALS AND CORNERS IN STAGGERED ROWS. WALL TIES TO BE SUITABLE FOR CAVITY WIDTH AND IN ACCORDANCE WITH BS 5268-6.1: 1996 AND BS EN 845-1: 2003
- CAVITIES**
- PROVIDE CAVITY TRAYS OVER OPENINGS. ALL CAVITIES TO BE CLOSED AT EAVES AND AROUND OPENINGS USING THERMABATE OR SIMILAR NON COMBUSTIBLE INSULATED CAVITY CLOSERS. PROVIDE VERTICAL DPCS AROUND OPENINGS AND ABUTMENTS. ALL CAVITY TRAYS MUST HAVE 150MM UPSTANDS AND SUITABLE CAVITY WEEP HOLES (MIN 2) AT MAX 300MM CENTRES.

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| Project: RESIDENTIAL DEVELOPMENT AT WATH ROAD, ELSECAR, BARNLSLEY S74 8HF | | | Client: DEVELOPMENTS BY BOUTIQUE | | |
| Drawing Title: ELEVATIONS AND SECTIONS | | Date: MAY 2024 | Scale: 1:50 @ A1 | Rev.: 03 A | |
| Date: 06-06-25 | Suffix: A | Description: HEAT PUMPS ADDED | Date: | Suffix: | Description: |