



(A) $203 \times 133 \text{ mm } 30 \text{ kg/m UB } \text{SPAN } 3000$ (B) $254 \times 254 \text{ mm } 107 \text{ kg/m UB } \text{SPAN } 4800$

LOADS B/WK
 ROOF $1.2 \times 3 \times 2.9 = 10.14 \text{ kN}$
 W 30.3 kN

BM $W/L/8 = 11.36 \text{ kNm}$
 $Z_{reqd} \text{ M}/\text{pbc} = 69 \text{ cm}^3 \checkmark$
 $S_F / 360 = 8.3 \text{ mm}$
 $S_A \frac{W L^3}{384 EI} = \frac{10.14}{EI} = 1.7 \text{ mm} \checkmark$

LOADS ON BOTM
 UG'S $W_T = W + \text{B/WK}$
 $= 53.4 \text{ kN}$

LOADS B/WK
 ROOF $4 \times 4.8 \times 2.5 = 48 \text{ kN}$
 W 123.6 kN

POINT LOAD
 FROM A $P = 26.7 \text{ kN}$

BM $W/L/8 + P/L/4 = 74.16 + 32.04 = 106.2 \text{ kNm}$
 $Z_{reqd} \text{ M}/\text{pbc} = 646 \text{ cm}^3 \checkmark$
 $S_F / 360 = 13.3 \text{ mm}$
 $S_A \frac{W L^3}{384 EI} + \frac{P L^3}{48 EI} = \frac{177.98 + 61.53}{EI} = 239.5 \text{ mm} \checkmark$

SELECTED MATCHING ROOF TILES/SLATES NAILED TO TREATED S.W. BATTENS WITH LAP TO SUIT ROOF PITCH IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS OVER 'TYVEK' BREATHABLE SARKING FELT LAID OVER RAFTERS AS SPECIFIED. 300MM FIBREGLASS QUILT INSULATION OVER AND BETWEEN JOISTS ON 9MM PB AND SKIM CEILING.

175 X 50MM SC3 RAFTERS AT 400MM C/C 150MM KINGSPAN E.P.S. INSULATION BETWEEN RAFTERS ON 16MM PLY FIXED TO U/SIDE WITH 9MM PB CEILING. ENDS OF RAFTERS TO BE BIRDSMOUTHED ONTO WALL PLATES END RAFTERS TO BE RAWL BOLTED TO GABLE END MASONRY AT 600C/C.

150mm KINGSPAN THERMOPITCH TP 10 BETWEEN
RAFTERS AND 25mm TP10 TO U/PIDE

TWO COAT SAND CEMENT RENDER TO MATCH EXISTING ON 100MM CONCRETE BLOCKWORK OR SELECTED FACING BRICK OUTER LEAF 100MM CAVITY WITH ROCKWOOL INSULATION BATS FULL. FILL 100MM CONCRETE BLOCKWORK. INNER LEAF WITH TWO COAT PLASTER FINISH TO GIVE A MAXIMUM OF 0.28 U VALUE. STAINLESS STEEL CAVITY TIES TO BE PROVIDED AT 450 x 750MM CENTRES AND AT 300MM CENTRES AROUND ALL OPENINGS. INSULATED 'THERMABATE' OR SIMILAR CAVITY CLOSERS WITH INSULATED CATTIC OR I.G. PROPRIETARY GAV. STEEL UTNOLS TO BE PROVIDED OVER ALL CAVITY WALL OPENINGS WITH A MINIMUM 350MM END BEARING. TIMBER STUD PARTITIONS 75 X 50MM STUDDING WITH MINERAL WOOL INFILL AND 12MM BP AND SKIM BOTH SIDES.

CONCRETE BLOCK OUTER LEAF WITH 2 COAT S.C. RENDER
100mm CAVITY WITH DRYTHERM 32 ULTIMATE FOL FIL IN SULATION
100mm CELCON SOLAR BLOCK INNER LEAF WITH
32.5mm GYPHASE THERMAL BOARD BE SIMILAR.
INTERNAL LINING WITH SKIN FINISH.

100MM CONCRETE SLAB WITH SELF LEVELLING SCREED AND FINISH TO CLIENT'S CHOICE
ON 120MM 'CELOTEX' ON 1200 G VISQUEEN DPM ON 50MM SAND BLINDING OVER
150MM WELL CONSOLIDATED BRICK HARDWARE. INSULATION BOARD TO BE TURNED UP
AT EDGE OF SLAB, D.P.C. AND D.P.M. TO BE LAPPED AND BONDED.

TWO LEAVES BRICKWORK BELOW D.P.C. LEVEL WITH CONCRETE CAVITY FILL UP TO 225MM BELOW D.P.C. LEVEL STRIP CONCRETE FOOTINGS MINIMUM 600MM X 200MM THICK AT LEAST 1000MM DEEP BEARING ONO FIRM CLAY SUB STRATA, OVERALL SIZE AND DEPTH TO SUIT GROUND CONDITIONS IN AGREEMENT WITH THE B.C.O./A.I.

SIDE VIEW A

CLOAKED VERRE TILES
WITH UPVC BARGE
BOARDS AND FACIA

SELECTED GUTTER TO BOUNDARY
SIDES

SIDE VIEW B

1:70

This diagram shows the side view of a building facade. The roof is sloped and covered with a series of rectangular panels. The wall below the roof is composed of horizontal lines, suggesting a corrugated or paneled surface. The drawing is a simple line sketch.

DOORS TO
CLIENTS
CHOICE

COPE 4 LEAD FLASHING

125mm ØY. CUTTING CLIPPED G. 800mm Ø

54x254mm 1075/50

B. S. 500mm ON P.C.P.

ADJUSTERS ON NEW

NG. BLOCK PILE

17°

D.P.C.

1.150mm MIN.

(A)

[illegible]

102
DIA
HOLE
TO BE
DRILLED
IN
WALL
BETWEEN
KITCHEN
AND
DINING

KITCHEN

DINING

SHOWER
ROOM

VELUX GGL 501
ROOF LIGHT
700 x 1140 mm

ASSUMED
LINE OF
EXISTING
DRAIN

102mm S.S.
HOLE
TO BE
DRILLED
IN
WALL
BETWEEN
KITCHEN
AND
DINING

102mm S.S.
HOLE
TO BE
DRILLED
IN
WALL
BETWEEN
KITCHEN
AND
DINING

102mm S.S.
HOLE
TO BE
DRILLED
IN
WALL
BETWEEN
KITCHEN
AND
DINING

[illegible]

ALL NEW DRAINS TO BE LAID USING 100MM DIAMETER HEPSLEVE OR U.P.V.C. PIPES AT 1:40 MINIMUM SELF-CLEANING GRADIENT. DRAINS UNDER BUILDING AND WITHIN 3M OF FOUNDATIONS TO BE ENCASED IN CONCRETE SURROUND, DRAINS PASSING THROUGH FOUNDATIONS TO BE BRIDGED OVER WITH P.C.C. LINTOLS AND ROCKER PIPE USED EITHER SIDE OF WALL. 100MM DIAMETER S.P.V.'s TO RECEIVE UPPER FLOOR FITTINGS WITH WIRE BIRD CAGE TERMINAL AT LEAST 900MM ABOVE THE HIGHEST WINDOW PANE OPENING AND ABOVE ROOF LEVEL. ALL NEW SANITARY FITTINGS TO HAVE ANT VAC TRAPS WITH WASTES CONNECTED SEPARATELY INTO SOIL STACKS. ALL WASTES TO BE MADE ACCESSIBLE.

ALL DIMENSIONS INCLUDING ROOF PITCHES TO BE CHECKED BY CONTRACTOR BEFORE WORK COMMENCES. ALL WORK TO COMPLY WITH CURRENT BUILDING REGULATIONS AND BE CARRIED OUT TO THE COMPLETE SATISFACTION OF THE DISTRICT B.C.O. ALL TIMBER TO BE TREATED WITH PRESERVATIVE. ALL NEW STEELWORK TO BE ENCASED IN 12MM GYPSUM 'FIRELINE' BOARD FOR 30 MINUTES FIRE PROTECTION. GALV. LINTLS. TO BE INSULATED AND ENCASED WITH 12MM PLASTERBOARD AND SKIMFOR 30 MINUTES FIRE PROTECTION. ALL ELECTRICAL WORK TO BE UNDERTAKEN BY NICEIC APPROVED CONTRACTOR WITH AN INSTALLATION CERTIFICATE TO BE PROVIDED ON COMPLETION. ALL NEW RADIATORS TO BE FITTED WITH THERMOSTATIC VALVES AND CH. BOILERS TO BE REPLACED IF NECESSARY WITH CONDENSING TYPE BOILERS AND INSTALLED BY A CORGI REGISTERED CONTRACTOR. TOUGHENED OR LAMINATED SAFETY GLASS TO BE USED IN ALL CRITICAL LOCATIONS. ✱

MR & MRS. MCKENNA

SINGLE STOREY EXTENSION
AT REAR

35 NORTH MOUNT ROAD
KIRKBY
L32 2AZ

REVISION

1:50

