

WHEN A MASONRY PIER IS A NON BRICK DIMENSION, IF THE LENGTH CAN ACCOMMODATE +/- 1.5mm THEN ADJUST A STANDARD 10mm MORTAR JOINT TO SUIT. IF OUTSIDE OF THESE PARAMETERS, THEN A CUT BRICK IS TO BE USED.

GUTTER SIZE & RWP POSITIONS TO BE DESIGNED BY SITE ENGINEER WITH DOWNPIPES LOCATIONS IN ACCORDANCE WITH DEVELOPMENT DRAINAGE LAYOUT, SITE CONDITIONS AND EXPANSION JOINT LOCATIONS.

FOR SURFACE WATER & RWP CALCULATIONS, REFER TO LAYOUT - DWG# EMB52_42

FOR GROUND FLOOR CONSTRUCTION, REFER TO MANUFACTURERS DETAILS

DRAINAGE SETTING OUT SHOWN INDICATIVELY, SITE ENGINEER TO CONFIRM

NOTE : TABLE OMTS FOUNDATION SELF-WEIGHT

EMB52 FOUNDATION LOADS KN/M. run										
WALL NUMBER	1	2	3	4	5	6	7	8	9	10
GROUND BEARING SLAB	40	40	40	60	40	40	40	60	50	50
SUSPENDED CONCRETE SLAB	40	40	40	70	40	40	40	70	60	60
BEAM & BLOCK (JET FLOOR)	40	40	40	70	40	40	40	70	60	60

*- LOAD FOR 1 SIDE OF PARTY WALL ONLY. THE LOAD SHOULD BE ADDED TO THE PARTY WALL LOAD FOR THE HOUSE TYPE ON THE OTHER SIDE.

AB DENOTES LOCATION OF TELESCOPIC UNDERFLOOR AIR BRICKS.

AB DENOTES LOCATION OF ADDITIONAL TELESCOPIC UNDERFLOOR AIRBRICKS TO EXTERNAL WALLS WHEN A BASIC RADON OR OTHER GAS MEMBRANE IS INSTALLED. VENTILATION REQUIREMENT TO BE ADJUSTED TO SUIT SITES WITH MORE SEVERE CONTAMINATION OR REQUIREMENTS. AIRBRICK VENTILATION FOR RADON OR OTHER GAS POSITIONED IN EXTERNAL WALLS AT MAX. 2.0M C/C AND 450MM FROM EXTERNAL CORNERS IN ADDITION TO THE STANDARD VENTILATION/AIRBRICKS CALCULATED.

ALL DIMENSIONS FOR SERVICES HAVE BEEN MEASURED FROM THE EXTERNAL WALL LINE.

SUBSTRUCTURE BLOCKWORK HATCH (MASONRY) EXTERNAL WALLS

100mm BLOCKWORK - 3.6N/mm² AIRCRETE (600-800kg/m³, 0.15W/mk).

100mm BLOCKWORK - 7.3N/mm² AIRCRETE (600-800kg/m³, 0.15W/mk).

INTERNAL WALLS

100mm BLOCKWORK - 3.6N/mm² AIRCRETE (600-800kg/m³) FOR INTERNAL LOAD BEARING WALLS

140mm BLOCKWORK - 3.6N/mm² AIRCRETE (600-800kg/m³) FOR INTERNAL LOAD BEARING WALLS

140mm BLOCKWORK - 7.3N/mm² AIRCRETE (600-800kg/m³) FOR INTERNAL LOAD BEARING WALLS

Approved Document C - Under floor ventilation requirements

Under floor ventilation to be provided to suit the greater of the air calculations: By floor area or by External wall length

Measure	M ² or M	Unit mm ²	Total Air Req mm ²	Monthorpe Vent size mm ²	Min. Vents Req
Floor Area	32.75	500	16375	6450	3
Mid Unit Ext Wall	7.32	1500	10980	6450	2
End Unit Ext Wall	16.27	1500	24405	6450	4
Det Unit Ext Wall	n/a	1500	n/a	6450	n/a

SUB-STRUCTURE LEGEND

ABBREVIATIONS

E = ELECTRIC METER
RWP = RAIN WATER PIPE
L# = LINTEL REFERENCE

SVP = SOIL VENT PIPE
RE = RODDING EYE

LEGEND

▲ = TELECOM ENTRY POINT
⊕ = WATER ENTRY POINT

NAP = NETWORK ACCESS POINT
CU = CONSUMER SERVICE UNIT
⊕ = DIRECT DRAINAGE CONNECTION

SUB-STRUCTURE DETAILS

Foundations (Jetfloor)	EM-FD21-01-10, 11, 30, 31
Jetfloor system details / Integral garages	EM-GF21-02-01, 02, 04, 05, 07, 10, 13
Future accessible shower provision	EM-GF21-02-74
Service entry details	EM-FD21-01-70

SUB STRUCTURE NOTES :

- THIS DRAWING MUST NOT BE SCALED.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS
- ALL DETAILS AND DRAWINGS MUST BE READ IN CONJUNCTION WITH THE "TW NATIONAL CONSTRUCTION SPECIFICATION"
- BEAM AND BLOCK / RAFT FOUNDATIONS TO STRUCTURAL ENGINEER / SPECIALIST DESIGN.
- FOR DETAILS OF CAST INSITU POWERFLOATED SUSPENDED GROUND FLOOR SLAB, SEE SPECIALIST DRAWINGS.
- DATUM 1 (MASONRY CONSTRUCTION ONLY) = FINISHED FLOOR LEVEL. TOP OF FLOATING SLAB, SUSPENDED SLAB AND RAFT FOUNDATION TO BE LEVEL WITH DPC (INSULATION POSITIONED UNDER SLABS).
- FOUNDATIONS
- FOUNDATION WIDTHS AND DEPTHS TO BE DETERMINED BY THE STRUCTURAL ENGINEER, BASED ON THE SITE INVESTIGATION REPORT / WALL FOUNDATION LOADS TO BE AGREED BY THE BUILDING CONTROL ENGINEER.
- ⊖ INDICATES REFERENCE TO WALL NUMBER AND FOUNDATION LOADS.
- CHECK SOIL REPORT FOR SPECIAL REQUIREMENTS E.G. PRECAUTIONS NECESSARY FOR SULPHATES IN SOIL ETC.
- GAS PIPES TO RUN IN GROUND FLOOR INSULATION OR, IF INTEGRAL GARAGE TYPE, WITHIN FIRST FLOOR CARCASS.

C02	05.12.25	Compliance amended to M4(1)	MS	SN
C01	13.10.25	STATUS TO CONSTRUCTION; Drainage run omitted	JF	LE
T02	19.06.25	Sub-structure legend updated	CC	LE
T01	22.04.25	STATUS TO TENDER	CC	LE
P01	31.03.25	Gas meter & Gas point omitted	CK	LE
REV	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED

Status:

CONSTRUCTION

NDSS Compliance: ADM Compliance Level:

COMPLIANT M4(1)

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Project No:
23/1024

Drwg No:
EMB52 - 21P2 - 11 - C02

Project:
Grange Farm, WD (Phase 2)

Drwg Title:
DUNNERTON 5B8P

SUB-STRUCTURE PLAN

AS PLOT/S:

125

OPP PLOT/S:

Scale: 1:50 @A3 Date: Jan 2025

Drawn By: CC Checked By: RB

Client:

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SUB-STRUCTURE PLAN
EMB52 (5B8P)

2nd DPC To be added to full perimeter of the building
Refer to *principles* TWNT GF13-02-40