



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.

SUB-STRUCTURE LEGEND

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

LEGEND
 ▲ = TELECOM ENTRY POINT
 ● = WATER ENTRY POINT

SVP = SOIL VENT PIPE
 RE = RODDING EYE

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

- 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.

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	Monthly Vent size mm ²	Min. Vents Req
Floor Area	80.89	500	40445	6450	7
Mid Unit Ext Wall	n/a	1500	n/a	6450	n/a
End Unit Ext Wall	n/a	1500	n/a	6450	n/a
Det Unit Ext Wall	42.09	1500	63135	6450	10

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

REV	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED
C02	05.12.25	Compliance amended to M4(1)	MS	SN
C01	13.10.25	STATUS TO CONSTRUCTION	JF	LE
T03	24.09.25	'Main Door Threshold' Label added; Stepped base on substructure, dims adjusted to incorporate it; Drainage run/Gas dims omitted	SN	LE
T02	20.06.25	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

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

NOTE : TABLE OMITTS FOUNDATION SELF-WEIGHT

EMG51 FOUNDATION LOADS KN/M. run								
WALL NUMBER	1	2	3	4	5	6	7	8
GROUND BEARING SLAB	60	40	60	40	40	40	60	40
SUSPENDED CONC SLAB	70	40	70	40	40	40	70	40
B & B (JET FLOOR)	70	40	70	40	40	40	70	40

EMG51 FOUNDATION LOADS KN/M. run					
WALL NUMBER	9	10	11	12	13
GROUND BEARING SLAB	10	20	30	50	60
SUSPENDED CONC SLAB	20	30	40	60	70
B & B (JET FLOOR)	20	30	40	60	70

Status: **CONSTRUCTION**

NDSS Compliance: ADM Compliance Level: **COMPLIANT M4(1)**

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Project No: **23/1024**

Drig No: **EMG51 - 21P2 - 11 - C02**

Project: **Grange Farm, WD (Phase 2)**

Drwg Title: **PATTERHAM 5B9P**

SUB-STRUCTURE PLAN

AS PLOT/S: 124
 OPP PLOT/S: 65

Scale: 1:50 @A3 Date: Jan 2025
 Drawn By: CC Checked By: RB

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SUB-STRUCTURE PLAN
 EMG51 (5B9P)

2ND DPC TO BE ADDED TO FULL PERIMETER OF THE BUILDING REFER TO *PRINCIPLES* TWNT CF13-02-40