



SUB-STRUCTURE PLAN
EMT42 (4B6P)

2ND DPC TO BE ADDED TO FULL PERIMETER OF THE BUILDING REFER TO *PRINCIPLES* TWNT GF13-02-40

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

FOR SURFACE WATER & RWP CALCULATIONS, REFER TO LAYOUT - DWG# EMT42_42

FOR GROUND FLOOR CONSTRUCTION, REFER TO MANUFACTURERS DETAILS

DRAINAGE SETTING OUT SHOWN INDICATIVELY, SITE ENGINEER TO CONFIRM

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.

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

- 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 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 LEGEND

ABBREVIATIONS

- E = ELECTRIC METER
- RWP = RAIN WATER PIPE
- L# = UNTEL REFERENCE
- SVP = SOIL VENT PIPE
- RE = RODDING EYE

LEGEND

- ▲ = TELECOM ENTRY POINT
- = WATER ENTRY POINT
- NAIP = NETWORK ACCESS POINT
- CU = CONSUMER SERVICE UNIT
- ⊕ = DIRECT DRAINAGE CONNECTION

Approved Document C - Under floor ventilation requirements					
Under floor ventilation to be provided to suit the greater of floor area or by External wall length			the air calculations: By		
Measure	M ² or M	Unit mm ²	Total Air Req mm ²	Manthorpe Vent size mm ²	Min. Vents Req
Floor Area	58.92	500	29460	6450	5
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	31.06	1500	46590	6450	8

NOTE : TABLE OMITTS FOUNDATION SELF-WEIGHT

EMT42 FOUNDATION LOADS KN/M. run						
WALL NUMBER	1	2	3	4	5	6
GROUND BEARING SLAB	50	40	50	40	40	40
SUSPENDED CONCRETE SLAB	60	40	60	40	50	50
BEAM & BLOCK (JET FLOOR)	60	40	60	40	50	50

*- 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.

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; 'Main door' threshold label added; Drainage run omitted	SN	LE
T02	20.06.25	Sub-structure legend updated	CC	LE
T01	22.04.25	STATUS TO TENDER	SN	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

Drg No:
EMT42 - 2021 - 11 - C02

Project:
Grange Farm, WD (Phase 2)

Drwg Title:
TEWKSDALE (4B6P) SUB-STRUCTURE PLAN

AS PLOT/S:

77, 78

OPP PLOT/S:

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

Client:

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