



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

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
 □ = CONSUMER SERVICE UNIT
 ⊕ = DIRECT DRAINAGE CONNECTION

- 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.

DRAINAGE SETTING OUT, TO BE CONFIRMED BY APPOINTED SITE ENGINEER

FOR GROUND FLOOR CONSTRUCTION, REFER TO MANUFACTURERS DETAILS

LEVEL ACCESS
SEE DETAIL

RWP POSITIONS ARE SUBJECT TO 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

- 3.6N/mm² AGGREGATE (1350-1600kg/m³) FOR INTERNAL LOAD BEARING WALLS (7.0N/mm² TO APARTMENTS) ENGINEER TO CONFIRM

PARTY WALLS

- 100mm BLOCKWORK - 3.6N/mm² AIRCRETE (600-800kg/m³, 0.15W/mk) FOR E-WM-30, REFER TO SITE SPECIFICATION.

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	Manthorpe Vent size mm ²	Min. Vents Req
Floor Area	75.02	500	37510	6450	6
Mid Unit Ext Wall	16.770	1500	25155	6450	4
End Unit Ext Wall	25.718	1500	38577	6450	6
Det Unit Ext Wall	34.665	1500	51998	6450	9

REV	DATE	DESCRIPTION OF REVISION	DRAWN	CHECKED
C01	13.10.25	STATUS TO CONSTRUCTION; 'Main door' threshold label, Shower zone, Buttress wall & porch foundations added/shown; Drainage run 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

NOTE : TABLE OMITTS FOUNDATION SELF-WEIGHT

EMAW42 FOUNDATION LOADS KN/M. run

WALL NUMBER	1	2	2a	3	4	4a	5	6	7
GROUND BEARING SLAB	60	40	50	50	40	50	60	60	30
SUSPENDED CONCRETE SLAB	70	40	50	60	40	50	60	60	40
BEAM & BLOCK (JET FLOOR)	70	40	50	60	40	50	60	60	40

*- 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.

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

SUB-STRUCTURE DETAILS

Strip foundations (Jetfloor)	EM-FD21-01-10
Jetfloor system details / integral garages	EM-GF21-02-01/02
Future accessible shower provision	EM-PH21-12-62
Timber stud partitions & buttress walls	EM-IW21-08-40
Service entry details	EM-FD21-01-70
Accessible threshold	EM-GF21-02-01

SUB-STRUCTURE PLAN
EMAW42 (4B6P)

Status: **CONSTRUCTION**

NDSS Compliance: ADM Compliance Level: **COMPLIANT M4(3) ADAPT.**

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Project No: **23/1024**

Drwg No: **EMAW42 21P2 - 11 - C01**

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

Drwg Title: **SKELTHWAITE 4B6P SUB-STRUCTURE PLAN**

AS PLOT/S: 176
OPP PLOT/S: 79, 95, 162, 163, 164

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

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