

Drawing Register

Old Marsh Farm Barns, Welsh Road, Sealand, Flintshire, CH5 2LY enquiries@betts-associates.co.uk - 01244 288178

Housetype:		Job No:-		ED 737					Revision: -								
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Betts_EG_CHTR_DM_Multish	neet	Day	22	-													
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		Year	22	22													
Description	Size	No.							Re	visio	ons						
RC Slab Layout	A2	01	-	-													
Beam and Block Layout	A2	02	-	-													
Windpost details (WP01 & WP02)	A1	03	-	-													
Movement Joint/ Bed joint reinforcement elevations B1	А3	04	-	-													
Movement Joint/ Bed joint reinforcement elevations A1	А3	05	-	-													
Distribution																	
Redrow Homes Group Technical			-	-													
Purpose of Issue: I-Info P-Prelim B-Bill T-Tend	ler C -Con	st A -Approval	С	С													
Method of Issue: CDE-Upload E-Email D-Disk			E	E						-		-	-	-			
Issued By:	7		MC	_						_		_	_	_	-	\vdash	_
			MIC	1410													

G2. All materials & workmanship shall be in accordance with NHBC

Concrete Mixes

C1. Unless noted otherwise, mixes shall be designated mixes in accordance with BS8500 and NHBC Standards Section 2.1, as

		Max	
		Agg	Consistenc
Location	Mix	Size (mm)	Class
Ground floor slab	RC28/35	20	\$2
concrete foundations	Gen 1	20	\$3

The above mix details for concrete in contact with the ground are based upon design sulphate class DS-1, ACEC class AC-1. Refer to site specific Soil Investigation Report for site specific modifications to

- C2. All workmanship, including formwork, reinforcement, testing, casting and curing, shall be in accordance with NHBC Standards Section 2.1
- C3. Cover to reinforcement to be as follows;

Top of slab 25 mm Btm of slab 40 mm

C4. Minimum laps in reinforcement to be as follows:

Mesh Ends -Mesh Sides -

Foundation Notes

- F1. Foundations widths have been based on an allowable design ground bearing capacity of 100kN/m². Refer to site specific soil investigation report for sie specific bearing capacity.
- F4. Foundation formation depths are to be stepped in accordance with NHBC Standards.

Denotes width of foundations refer to plan.

- Where ground conditions are locally poor or unsuitable at the minimum specified depth, the formation level is to be extended down to an approved bearing strata in lean mix concrete.
- Where the following conditions occur, and have not been identified within the Geo-environmental report or on other drawings, further advice should be sought:
- Presence of trees, on or around the site
- Presence of ponds and/or streams
- Knowledge of, or discovery of, tipped or waste materials
- Knowledge of, or discovery of, old mine or quarry's Ground slopes greater than anticipated.
- F7. Foundation excavations should take due account of external
- F8. Excavations for foundations are to be inspected by the Local Authority/ NHBC Inspector prior to casting.

Substructure Masonry Notes

- M1. For brickwork specification refer to Architect's Details.
- M2. The contractor is to provide all temporary bracing/strutting to brick/ block walls to ensure their stability.

Ground Floor Slab Notes

- G1. The ground floor slab is designed as suspended and is to be cast on a sub-base of clean well graded, inert selected site fill material. This material should be nominally compacted to provide a suitable base for receiving freshly poured concrete and shall be blinded with fines and covered with 1200g DPM. For below floor insulation requirements refer to architects specification.
- G2. All ground floor slabs to be 150mm thick, U.N.O. and reinforced in accordance with details shown on the drawing. Slabs are to receive a power float finish in accordance with Redrow Homes specification and requirements.
- G4. The main bars, at 100mm centres, are to be placed parallel with the span directions shown thus: -
- and shall be located nearest to the outer faces of the slab.

(DL:-kN/m) (IL:-kN/m) Indicates Dead & Imposed service line loads in kN/m. These loads include all superstructure loadings and the ground floor slab. All loadings below the slab are to be added to the loads shown. The above statement is based on information contained in drawings for EG_CHTR_DM If there are any subsequent revisions to these drawings, refer to Redrow Homes for further instruction

Section 1-1 = SD-G-RCUFH0001 Section 2-2 = SD-G-RCUFH0002 Section 4-4 = SD-G-RCUFH0058 Section 3-3 = SD-G-RCUFH0057 Section 5-5 = SD-G-RCUFH0062 Section 6-6 = SD-G-RCUFH0069 Section 7-7 = SD-G-RCUFH0070 Section 8-8 = SD-G-RCUFH0007 Section 9-9 = SD-G-RCUFH0006 Section 10-10 = SD-G-RCUFH0005

External footings generally to be:

600mm Wide x 175mm Deep.

Internal footings generally to be: 450mm Wide x 175mm Deep.

600mm Wide x 225mm Deep.

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Indicates internal loadbearing walls

Indicates timber partitions Refer to Redrow details for setting out

:::Areas hatched thus indicate::: extent of A193 mesh top unless noted otherwise

10003 3478 2823 3703 450 \(\vec{\pi}{\pi} \) of WP02 € of WP01 7 450 3028 3253 (DL:30kN/m) 600 (DL:30K17/11) (IL:7kN/m) (DL:30kN/m) 600 (IL:8kN/m) Efaoting & wall ing.&.wall. :1200:: ::1200:: 1.200 (DL:25kN/I (IL:6kN/m) 150 Thick Slab 150 Thick Slab B785 Mesh Btm B785 Mesh Btm 3390 (DL:16kN/m) 450 450 (DL:15kN/m) **7** (IL:9kN/m) 150 Thick Slab B785 Mesh Btm Garage slab 75mm lower than house slab 3390 3050 (DL:31kN/m) 600 150 Thick Slab (IL:8kN/m) B785 Mesh Btm 600 3 (DL:8kN/m (IL:2kN/m) 600 1237 910

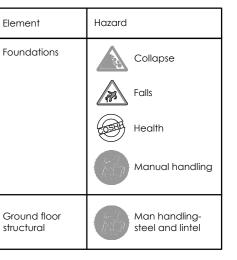
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4040

3590

CDM Key

For details refer to CDM sheet



Ву

Mark | Date Details Drawing originator BETTS HYDRO BETTS ASSOCIATES **BETTS GEO REDROW** Project title:

> Redrow Homes Group Standard Housetype Catalogue

Drawing title:

Chester (EG_CHTR_DM) Foundation/RC Slab layout BETTS_EG_CHTR_DM_RCSLAB

Scale: As I	ndicated	for the o	riginal siz	e of A	\2	
Drawn by: M	Check	ed by: MC	Passed by:		Date:	JUN 22
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Concrete Mixes

C1. Unless noted otherwise, mixes shall be designated mixes in accordance with BS8500 and NHBC Standards Section 2.1, as

		Max						
Location	Mix	Agg Size (mm)	Consistency Class					
Ground floor slab concrete foundations	RC28/35 Gen 1	20 20	\$2 \$3					
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based upon design sulphate class DS-1, ACEC class AC-1. Refer to site specific Soil Investigation Report for site specific modifications to

- C2. All workmanship, including formwork, reinforcement, testing, casting and curing, shall be in accordance with NHBC Standards Section 2.1
- C3. Cover to reinforcement to be as follows;

Top of slab 25 mm Btm of slab 40 mm

C4. Minimum laps in reinforcement to be as follows:

Mesh Ends -400 mm Mesh Sides -250 mm

Foundation Notes

- F1. Foundations widths have been based on an allowable design ground bearing capacity of 100kN/m². Refer to site specific soil investigation report for sie specific bearing capacity.
- F4. Foundation formation depths are to be stepped in accordance with NHBC Standards.

Denotes width of foundations refer to plan.

- F5. Where ground conditions are locally poor or unsuitable at the minimum specified depth, the formation level is to be extended down to an approved bearing strata in lean mix concrete.
- Where the following conditions occur, and have not been identified within the Geo-environmental report or on other drawings, further advice should be sought:
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Substructure Masonry Notes

M1. For brickwork specification refer to Architect's Details.

M2. The contractor is to provide all temporary bracing/ strutting to brick/ block walls to ensure their stability.

Beam & Block Floor

PC1. PC floors shall be designed in accordance with BS 8110, with spans taken as simply supported and to carry the following service loadings plus self weight in kN/m²:

Timber partitions* = 0.75Finishes/screed = 1.80 (Inc. Jetfloor topping self wgt)

Superimposed = 1.50

Superimposed garage = 2.50

* Alternatively assume a line load of 2kN/m for non-loadbearing block partitions.

PC2. Provide minimum 150mm clear void between lowest point of pre-cast ground floor and ground level - Refer to sections.

PC3. _____ Denotes span of Hanson Jetfloor or S/A with a certified

PC4. The camber in the units shall be within the limits specified in BS 8110; the anticipated maximum camber is to be specified. PC5. The maximum size and location of holes to be drilled on site is to be

PC6. Flooring layouts shall be submitted to the client for review prior to manufacture.

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Schedule of sections:

Section 1-1 = SD-G-BB0001 Section 2-2 = SD-G-BB0002 Section 3-3 = SD-G-BB0011 Section 4-4 = SD-G-BB0022 Section 5-5 = SD-G-BB0016 Section 6-6 = SD-G-BB0027 Section 7-7 = SD-G-BB0029 Section 8-8 = SD-G-BB0007 Section 9-9 = SD-G-BB0006 Section 10-10 = SD-G-BB0005

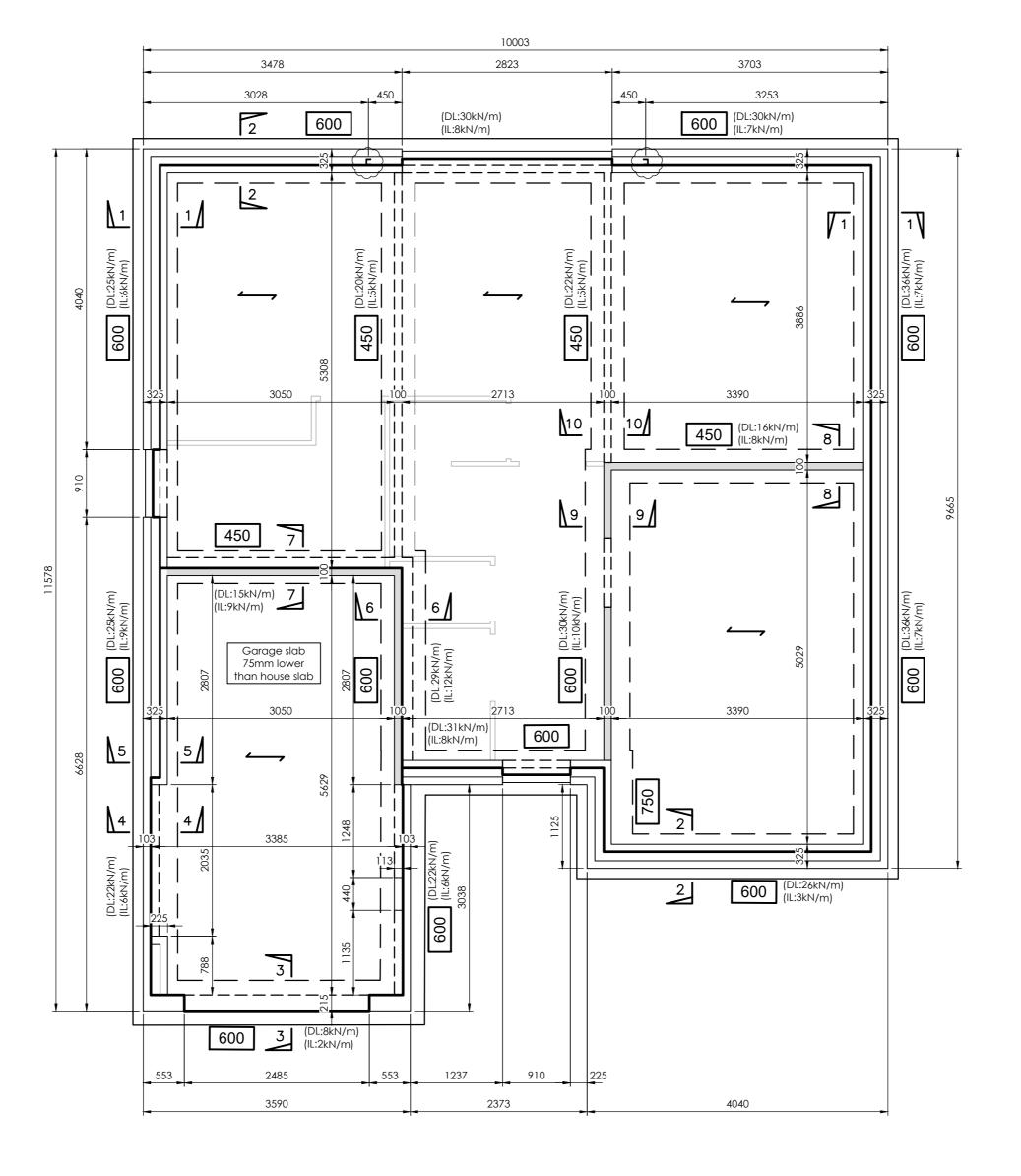
External footings generally to be: 600mm Wide x 175mm Deep.

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Internal footings generally to be: 450mm Wide x 175mm Deep. 600mm Wide x 225mm Deep.

Indicates internal loadbearing walls

Indicates timber partitions Refer to Redrow details for setting out



CDM Key

For details refer to CDM sheet

lement	Hazard
oundations	Collapse
	Falls
	Health
	Manual handling
Ground floor tructural	Man handling- steel and lintel





Project title:

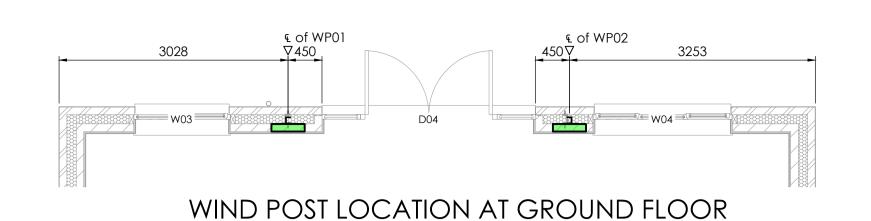
Redrow Homes Group Standard Housetype Catalogue

Drawing title:

Chester (EG_CHTR_DM) Foundation/RC Slab layout BETTS_EG_CHTR_DM_B&B

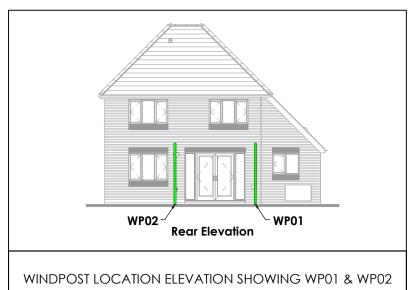
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Job No:	Drawing No:	n. Volume L	avel Type	Discip	Number	Revision:
RED737	CHTR BE		ever Type	1 1	02	-

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All dimensions must be checked against latest Redrow drawings All windposts are Ancon WP3 (or similar approved)

All steel windposts, wall ties, plates and bolts to be stainless

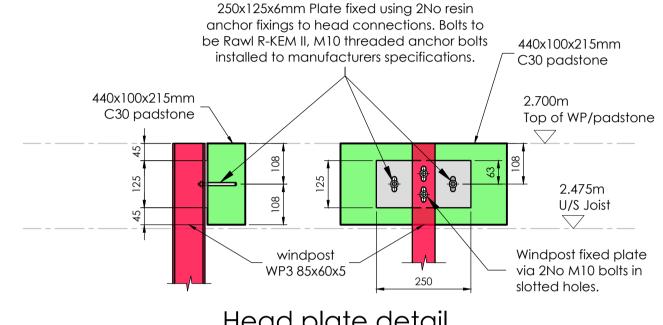


Ancon windpost WP3 85x60x5mm with Ancon SDN (External) and SPN (Internal) stainless steel wall ties to both leaves @ max 225mm vertical centres.

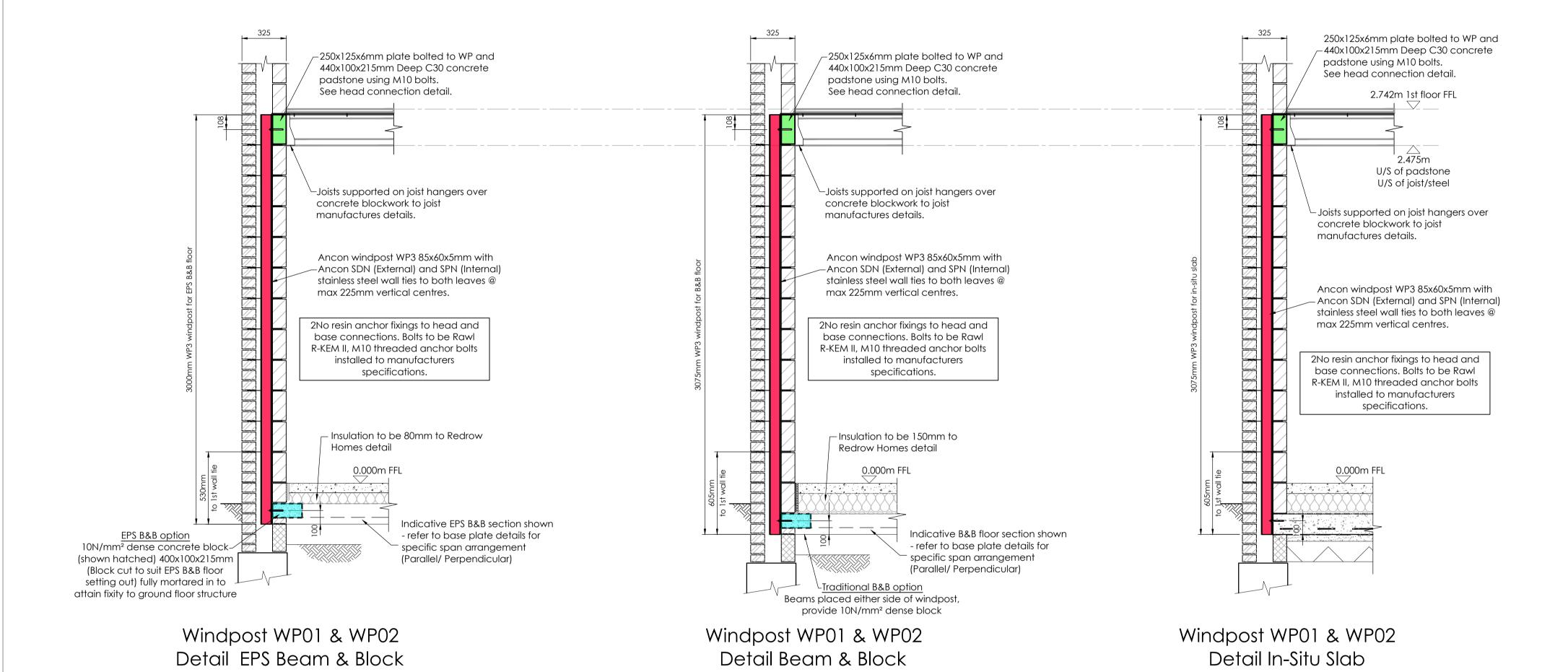
Plan on windpost

Note different windpost lengths for each floor type and windpost position: WP01/WP02 - In-situ slab - 3075mm Beam & Block - 3075mm

EPS Beam & Block - 3000mm



Head plate detail

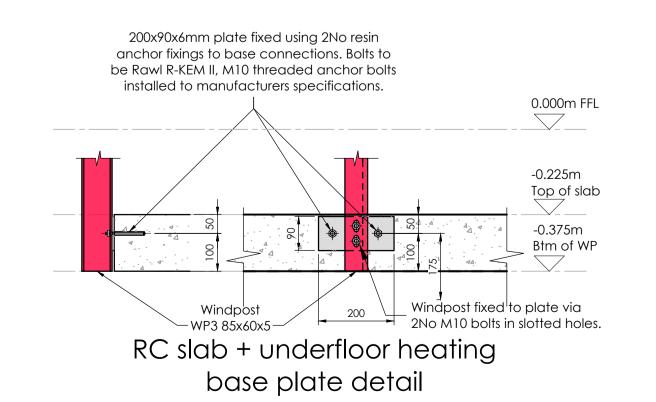


200x90x6mm plate fixed using 2No resin anchor fixings to base connections. Bolts to be Rawl R-KEM II, M10 threaded anchor bolts installed to manufacturers specifications. 215x440x100mm dense block cut to length to 0.000m FFL suit B&B layout (min. 215x215x100mm) -Windpost fixed Dense block to be supported -to plate via 2No WP3 85x60x5 on 40mm deep concrete slips M10 bolts in block to suit wall coursing slotted holes.

> EPS Beam & Block Base plate detail WP01 & WP02 Floor spans parallel to wall

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B&B Base plate detail WP01 & WP02 Floor spans parallel to wall





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Movement joints and bed joint reinforcement indicated apply only when house is built as shown. if house is built as a semi-detached or terrace refer to block drawings for details.

See Redrow Homes standard details for movement joint construction details.

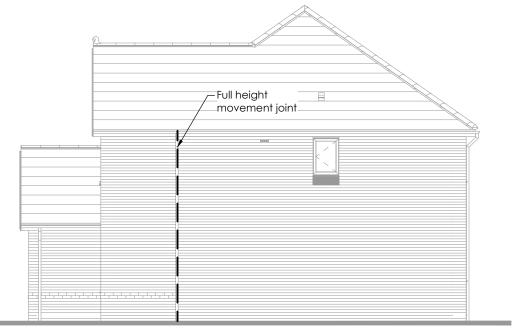
All exposed sub-DPC masonry over 600mm in height will require movement joints at max 6m (or to follow on from MJs in the superstructure, whatever is less centers)



Front Elevation



Rear Elevation



Side Elevation



Side Elevation



Do not scale this drawing

Construction

BETTS_EG_CHTR_DM_MJ & BJR Elevation B1

Chkd by: MC | Passed by:

Job No: | Drawing No: | Project Origin, Volume Level Type Discip, Number | CHTR | BETTS| - | 0 | DR | S | 04

Scale: 1:50

Drn by: MC

Drawing status:

for the original size of A3

Date: JUN 22

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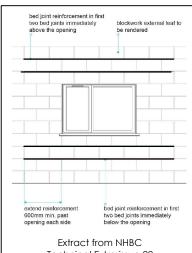
Chester 01244 288178 | Altrincham 0161 613531 |

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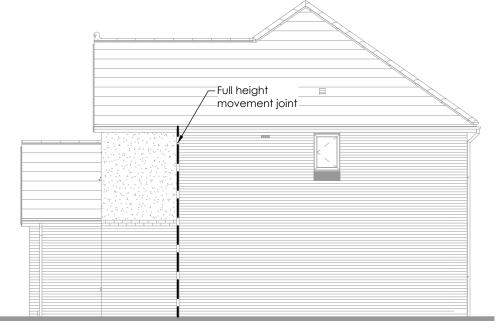
All blockwork which is to receive a render finish is to be 100mm, 3.6N/mm² with a density of at least 1350Kg/m³. Blocks specified for internal lear of external walls must not be used on external leaf.



Technical Extra issue 22



Front Elevation



Side Elevation



Rear Elevation



Side Elevation



Chkd by: MC | Passed by:

Construction

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Date: JUN 22

Drn by: MC

Drawing status: