| V13 Drawing Register | | | | | | | | | | |
|----------------------|-----------------------------------|-----|---------------|--|--|--|--|--|--|--|
| Sheet Number | Sheet Name | Rev | Revision Date | | | | | | | |
| 1300-1300 | Cover Page & Design Risk Register | Α | Feb 2024 | | | | | | | |
| 1300-1300 | Foundation & Sub-Floor Plans | A | Feb 2024 | | | | | | | |
| 1300-1320 | Floor Plans | Α | Feb 2024 | | | | | | | |
| 1300-1330 | MEP Plans | Α | Feb 2024 | | | | | | | |
| 1300-1340 | Elevations | Α | Feb 2024 | | | | | | | |
| 1300-1350 | Sections | Α | Feb 2024 | | | | | | | |



| Design Risk Register | | | | | | | |
|-------------------------------|--|--|--|--|--|--|--|
| Element | Comments | | | | | | |
| Lifting Operations | To avoid injury when handling heavy components, specialist handling equipment is to be utilised for the positioning of heavy objects/materials. Large glazing to be installed with specialist lifting equipment by trained personnel. Protection barriers to be provided to prevent mechanical damage following installation. | | | | | | |
| Craneage | Crane supplier to be satisfied of adequate support to outriggers, correct lifting positions to be established to avoid slippage of sheet materials during lifting and placement. Sub-contractors and suppliers to 'design in' lifting eyes and identify weights of heavy items at drawing approval stage. All RAMS to be obtained and approved prior to any lifting operations being carried out. | | | | | | |
| Ground Floor Construction | Mechanical Lifting equipment to be utilised to position pre-cast concrete floor planks. Manual handling assessment to be carried out. | | | | | | |
| Working at Height | Install temporary scaffolding barrier to exposed edges of upper floors including toe boards throughout the build period. Provide scaffolding to all areas requiring placement of materials and finishing to all areas above ground level. Scaffolding to be positioned to avoid the need to overreach causing strain injury when placing materials. Protect areas below high level working from falling debris. Ensure space required for crane is achievable and suitable hard standing is provided. Ensure maximum fall height when fixing trusses into position is 2 metres by utilising appropriate safety measures and equipment. | | | | | | |
| Stairs | To prevent falls provide temporary guarding and edge protection to open well areas and keep clear during construction, eliminating the possibility of trip hazards. Stairs to be erected as early as possible during the construction process to provide vertical circulation and means of escape in case of fire. | | | | | | |
| Masonry Construction | When working at height mechanical lifting measures required to lift brick and block packs into position to reduce manual handling. | | | | | | |
| intels | Manual Handling Assessments to be carried out for all lintels, light craneage to be utilised for lintels considered too heavy for manual handling. | | | | | | |
| Structural Steelwork | Mechanical lifting measures required to reduce manual handling. Ensure required space for crane is achievable and suitable hard standing is provided. | | | | | | |
| Windows / Structural Openings | Any structural apertures below 800mm to be fitted with temporary guarding to prevent falls. Any structural apertures below 800mm and extending to floor level to be fitted with temporary guarding and edge protection to prevent falls. Mechanical lifting measures and frame and glazing fitted separately to be considered for installation of large windows and combination door & window frames. Window manufacturer to be consulted regarding best means of installation. | | | | | | |
| Window Cleaning & Maintanence | 'Easy Clean' hinges are not an option due to the top hung design to a majority of the windows, as such windows should be cleaned from ground level using a telescopic 'reach & wash' system. All windows used to be Aluminium or UPVC frames to eliminate the need for future decoration. | | | | | | |
| Roof Construction | Ensure space required for crane is achievable and suitable hard standing is provided. Ensure maximum fall height when fixing trusses into position is 2 metres by utilising appropriate safety measures and equipment. | | | | | | |

1300-V13-N (As)

| General updates as detailed within issue email dated 02.02.2024 | Feb 2024 |
|---|-----------|
| Construction Issue | July 2023 |
| Description | Date |

NORTHSTONE

Peel L&P Salford M50 2TG

CONSTRUCTION

Gen2 House Type Portfolio

DRAWING NAME

1300-V13-N (As) Cover Page & Design Risk Register

| DRAWING NUMBER | | DESIGNATION | DRAWN BY |
|----------------|-------------|-------------|----------|
| 1300-1300 | | N | Design |
| DATE | SCALE (@ A3 | 5) | REV |
| May 2023 | | | Α |

- · All dimensions to structure unless otherwise stated.
- Drawing to be read in conjunction with Northstone specification & all other project related design information and drawings.
 Any discrepancies to be reported to Northstone Technical prior to commencement of works.
- All materials and workmanship to be in accordance with current NHBC Technical Standards and Building Regulations.

DO NOT SCALE FROM THIS DRAWING. ALWAYS PRINT IN COLOUR.

FOUNDATION & SUB-FLOOR LEGEND Brick Face External Wall OUTSIDE - 102.5mm clay facing brickwork as site specific materials plan - 125mm clear cavity INSIDE - 100mm block as specification 100mm Sleeper Wall - 100mm concrete block as engineers details 215mm Sleeper Wall - 100mm concrete block as engineers details - 15mm cavity fully filled with mortar - 100mm concrete block as engineers details Trench Block - 350mm concrete trench block as engineers Services & Ventilation O^{SVP} 110mm Soil and Vent Pipe ORWP Rainwater pipe as specification OGULLY Sealed floor gully for level access shower → ^{Water} Water Entry Point Data Lead In _____ Data Entry Point E —— Electric Entry Point G — Gas Entry Point Sub-Floor Telescopic Vent Floor Finish & Span Extent of Floor Screed

Span of Ground Floor Construction 1. Refer to engineers details and specification for all block

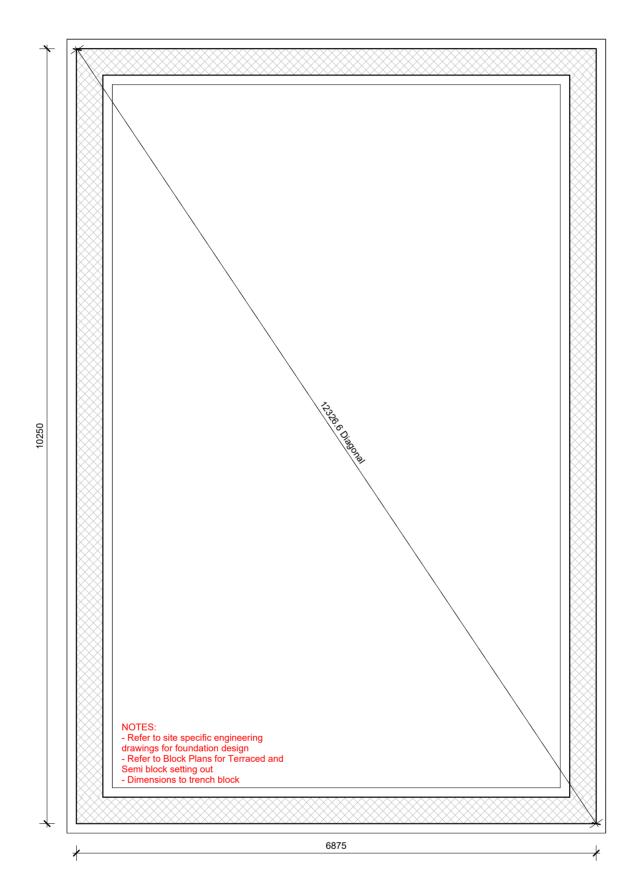
strengths.

Key to be read in conjunction with construction specification.

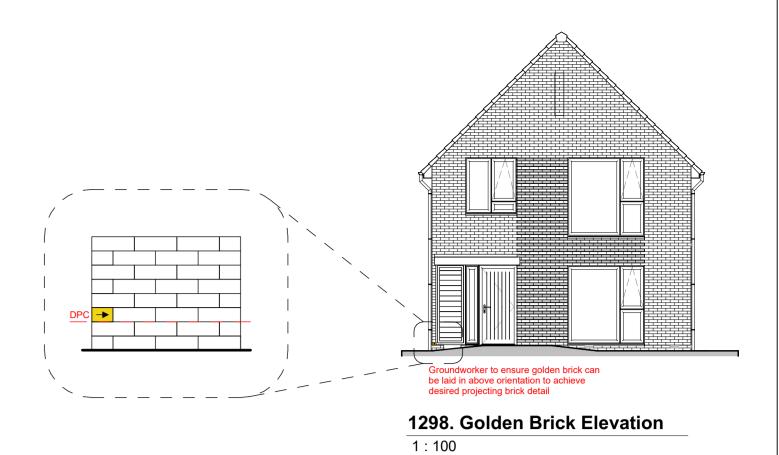
Expansion and movement joints, bed reinforcement and wind posts to engineers details. Always refer to site investigation report and engineers details for any gas membrane requirements.

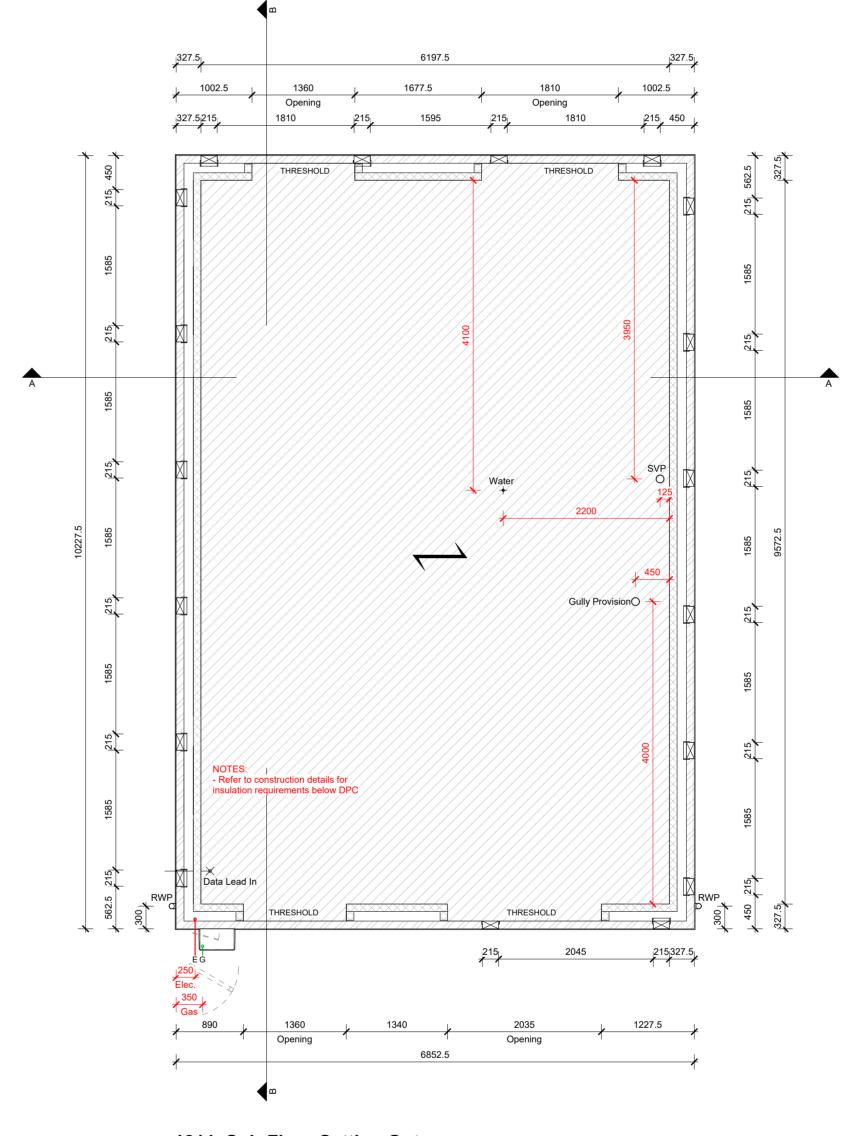
Sub-Floor Void Ventilation Schedule Building Building Ventilation Minimum Number of Vents Required of Vents Required Vents Provided

70.08 m² | 31.36 | 47040 mm² | 10 * Based on 500mm2/m2 of Floor Area

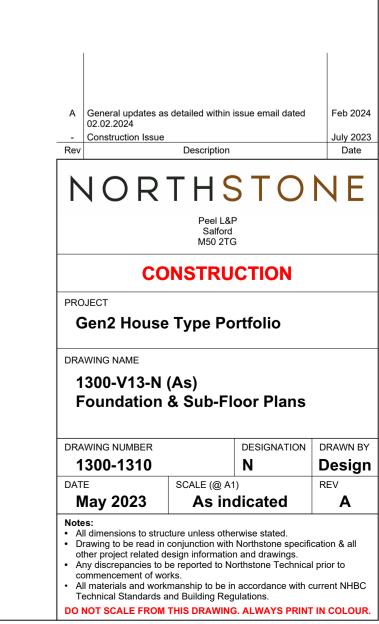


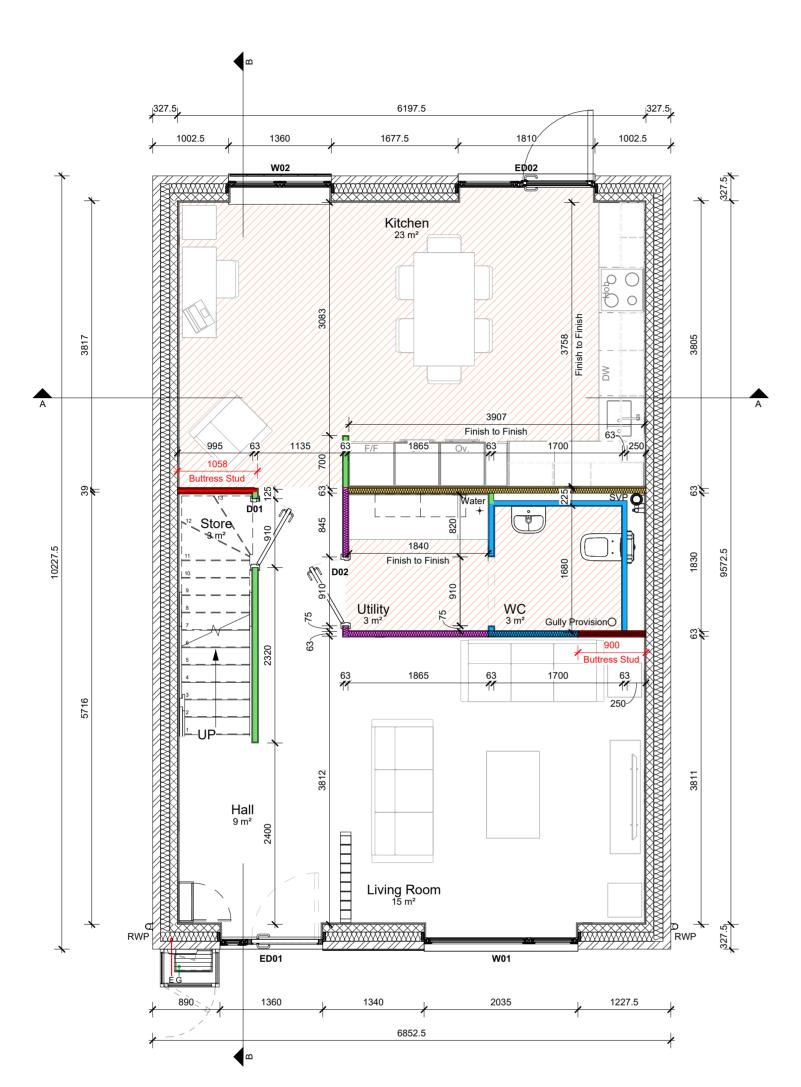
1210. Foundation Plan 1:50





1211. Sub-Floor Setting Out 1:50



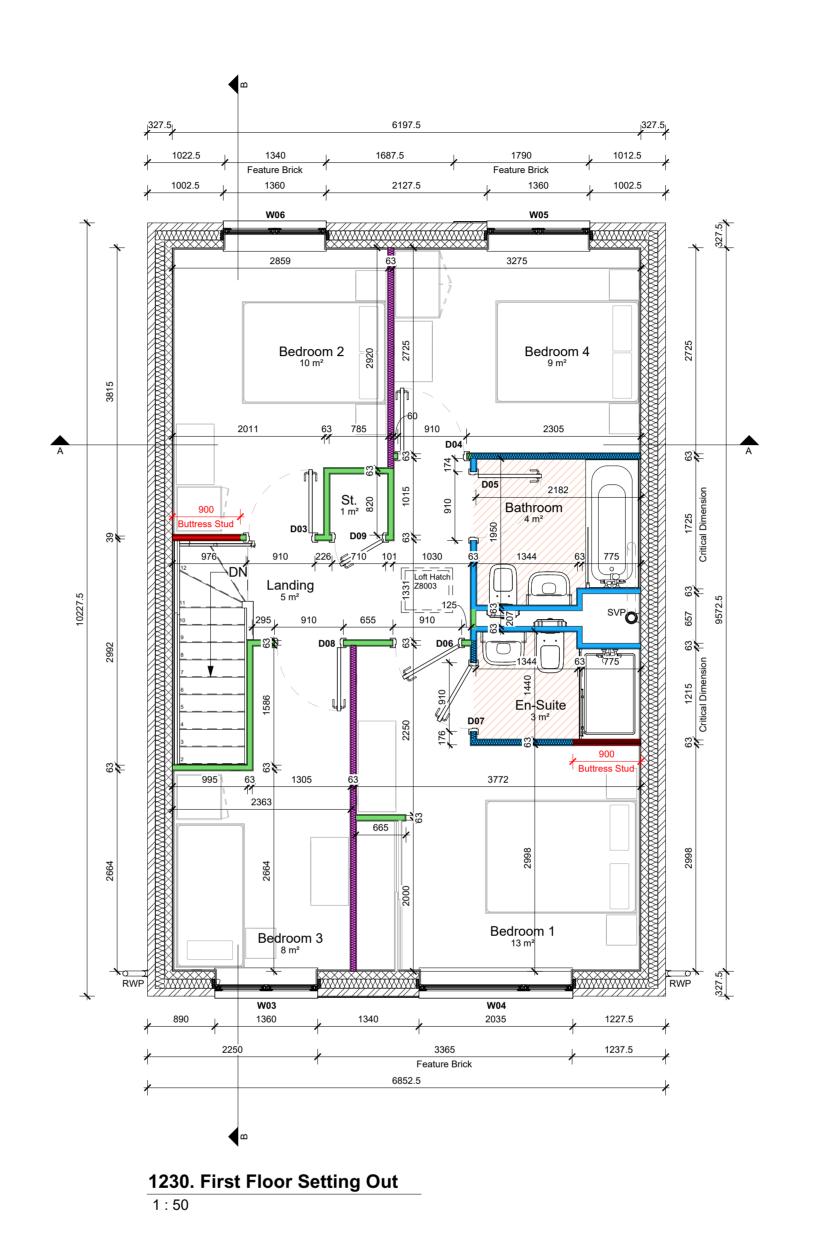


1220. Ground Floor Setting Out

| | V13 External Door Schedule | | | | | | | | | | | | |
|----------------------|----------------------------|-------|--------|------------|--------------|----------------------------|-----------------|-----------------------|----------|--------------------|-----------|----------------------|-------|
| Floor | Door Ref | Width | Height | Door Width | Reveal Depth | U-Value (Door / Sidelight) | Toughened Glass | Glazing Specification | MF Width | Sidelight MF Width | MF Height | Area of Glazing | Notes |
| | • | • | | • | | | | | • | | | | |
| Ground Floor FFL/DPC | ED01 | 1360 | 2110 | 1000 | 50 | 0.45W/m²K / 0.55W/m²K | Yes | Tripple Glazed | 984 | 344 | 2061 | 0.451 m ² | |
| Ground Floor FFL/DPC | ED02 | 1810 | 2110 | 1000 | 70 | 0.90W/m²K / 0.55W/m²K | Yes | Tripple Glazed | 984 | 794 | 2061 | 2.618 m ² | |

| V13 Window Schedule | | | | | | | | | | | | |
|----------------------|------------|-------|--------|-----------------|-----------|--------------|-----------------|---------------|---------------|-----------------------|-----------------|-------|
| Floor | Window Ref | Width | Height | Toughened Glass | U-Value | Reveal Depth | Obscure Glazing | Escape Window | Trickle Vents | Glazing Specification | Area of Glazing | Notes |
| Ground Floor FFL/DPC | W01 | 2035 | 2110 | Yes | 0.55W/m²K | 70 | No | No | Yes | Tripple Glazed | 3.435 m² | |
| Ground Floor FFL/DPC | W02 | 1360 | 2110 | Yes | 0.55W/m²K | 70 | No | No | Yes | Tripple Glazed | 2.096 m² | |
| First Floor FFL | W03 | 1360 | 1510 | Yes | 0.55W/m²K | 70 | No | Yes | Yes | Tripple Glazed | 1.438 m² | |
| First Floor FFL | W04 | 2035 | 2110 | Yes | 0.55W/m²K | 70 | No | Yes | Yes | Tripple Glazed | 3.435 m² | |
| First Floor FFL | W05 | 1360 | 1510 | Yes | 0.55W/m²K | 70 | No | Yes | Yes | Tripple Glazed | 1.438 m² | |
| First Floor FFL | W06 | 1360 | 1510 | Yes | 0.55W/m²K | 70 | No | Yes | Yes | Tripple Glazed | 1.438 m² | |

| | Internal Door Schedule | | | | | | | | | | | |
|----------------------|------------------------|-----------|----------|------------------|-------------------|------------|--------------|----------------|-------------|-------|--|--|
| Floor | Door Ref | From Room | To Room | Structural Width | Structural Height | Leaf Width | Casing Depth | Fire Rating | Self Closer | Notes | | |
| | | | | | | | | | | | | |
| Ground Floor FFL/DPC | D01 | Hall | Store | 910 | 2326 | 838 | 96 | Not Fire Rated | No | | | |
| Ground Floor FFL/DPC | D02 | Hall | Utility | 910 | 2326 | 838 | 96 | Not Fire Rated | No | | | |
| First Floor FFL | D03 | Bedroom 2 | Landing | 910 | 2017 | 838 | 96 | Not Fire Rated | No | | | |
| First Floor FFL | D04 | Bedroom 4 | Landing | 910 | 2017 | 838 | 96 | Not Fire Rated | No | | | |
| First Floor FFL | D05 | Bathroom | Landing | 910 | 2017 | 838 | 96 | Not Fire Rated | No | | | |
| First Floor FFL | D06 | Bedroom 1 | Landing | 910 | 2017 | 838 | 96 | Not Fire Rated | No | | | |
| First Floor FFL | D07 | Bedroom 1 | En-Suite | 910 | 2017 | 838 | 96 | Not Fire Rated | No | | | |
| First Floor FFL | D08 | Bedroom 3 | Landing | 910 | 2017 | 838 | 96 | Not Fire Rated | No | | | |
| First Floor FFL | D09 | Landing | St. | 710 | 2017 | 638 | 96 | Not Fire Rated | No | | | |





Centres

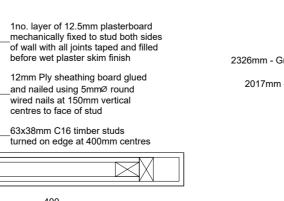
M8 Type R-KF2 resin fixed anchor

—bolts at 500mm vertical centres fixed through first stud with washer

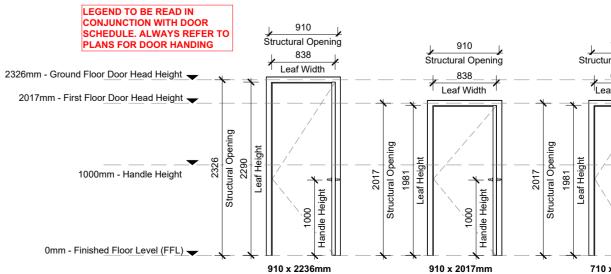
REFER TO STRUCTURAL ENGINEERS DETAILS AND NORTHSTONE CONSTRUCTION DETAILS

BUTTRESS STUD DETAIL

1:10



INTERNAL DOOR LEGEND



910 x 2017mm 710 x 2017mm Internal door

dabs, all joints taped and filled before wet plaster skim finish NON LOADBEARING STUD PARTITIONS General Partition

- 102.5mm clay facing brickwork to site specific

- 12.5mm plasterboard on 10mm adhesive

- 125mm cavity fully filled with insulation as specification
- 100mm block as specification - 100mm block as specification

materials plan

- 63x38mm C16 studwork at max 600mm centres with suitable noggins - Pattress between stud with 12mm Ply where required for MEP fixtures and fittings - 1no. layer of 12.5mm plasterboard mechanically fixed to stud both sides of wall with all joints taped

Patressed Partition Wall

- 63x38mm C16 studwork at max 600mm centres

WALL TYPE LEGEND Brick Face External Wall

600 with suitable noggins - 12mm ply mechanically fixed to stud on loadbearing side of wall, (Kitchens etc.) - 1no. layer of 12.5mm plasterboard mechanically fixed to stud both sides of wall with all joints taped

and filled before wet plaster skim finish Acoustic & Fire Rated Partition

30 Min
- 63x38mm C16 studwork at max 600mm centres with suitable noggins

- Voids between studwork fully filled with 60mm Rockwool Flexi or similar approved mineral wool. - Pattress between stud with 12mm Ply where required for MEP fixtures and fittings - 1no. layer of 12.5mm plasterboard mechanically fixed to stud both sides of wall with all joints taped and filled before wet plaster skim finish - Achieves R_w40dB in accordance with AD:E - Achieves REI 30 fire resistance in accordance with British Gypsum White Book

Wet-Room Partition (WC / Bathroom / En-suite)

- 63x38mm C16 studwork at max 400mm centres with suitable noggins

- Pattress between stud with 12mm Ply where required for MEP fixtures and fittings - 12.5mm moisture resistant plasterboard mechanically fixed to stud onwet-room side of wall with all joints taped and filled prepared for

- 12.5mm standard plasterboard mechanically fixed to stud on **dry-room side** of wall where required with all joints taped and filled before wet

Framing Wall - 63x38mm C16 studwork wide face out at max

400 400 400 400mm centres with suitable noggins - 1no. layer of 12.5mm plasterboard mechanically fixed to stud on room side of wall with all joints taped and filled before wet plaster skim finish

Anchored/Buttress Stud Partition

Refer to structural engineers details and , 400 , 400 , Northstone construction details.

Buttress Studs and Windposts not required on

party walls. Insulation Between Studs

As Above Wall Types Rockwool Flexi or similar approved mineral wool where indicated on drawing for AD:E compliance - Achieves R_w40dB in accordance with AD:E - Achieves REI 30 fire resistance in accordance with British Gypsum White Book

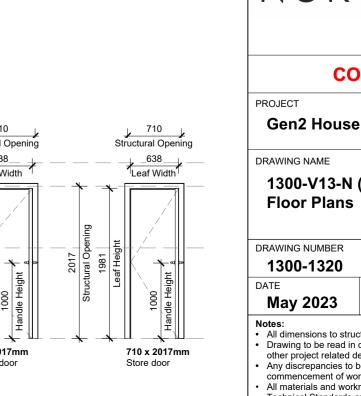
Refer to engineers details and specification for all block strengths.
 Key to be read in conjunction with construction specification.
 Expansion and movement joints, bed reinforcement and wind posts to

engineers details.
4. All dimensions are to structure unless otherwise noted.

FLOORING LEGEND

LVT Flooring

- Vinyl flooring applied as Northstone finishes specification and relevant customer options



A General updates as detailed within issue email dated 02.02.2024 - Construction Issue NORTHSTONE

Peel L&P Salford M50 2TG

CONSTRUCTION

Gen2 House Type Portfolio

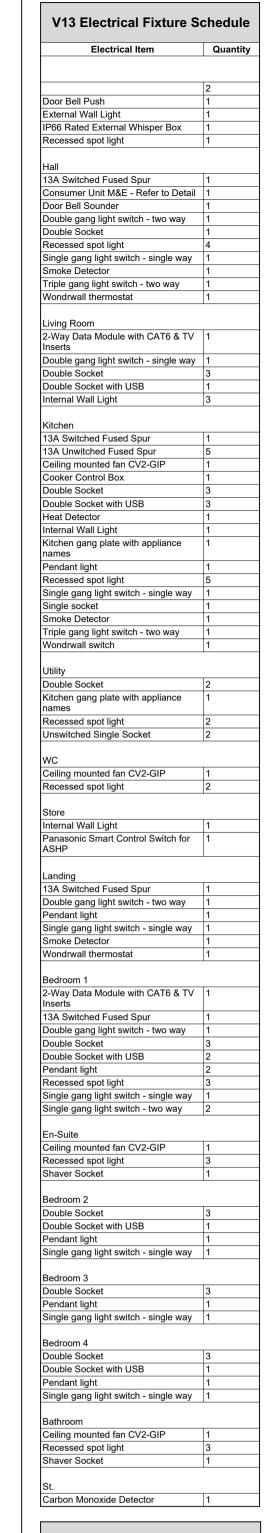
DRAWING NAME 1300-V13-N (As)

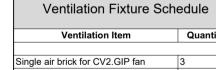
DRAWING NUMBER DESIGNATION DRAWN BY 1300-1320 Design SCALE (@ A1) May 2023 As indicated

Notes:
- All dimensions to structure unless otherwise stated. Drawing to be read in conjunction with Northstone specification & all other project related design information and drawings.
 Any discrepancies to be reported to Northstone Technical prior to commencement of works.

DO NOT SCALE FROM THIS DRAWING. ALWAYS PRINT IN COLOUR.

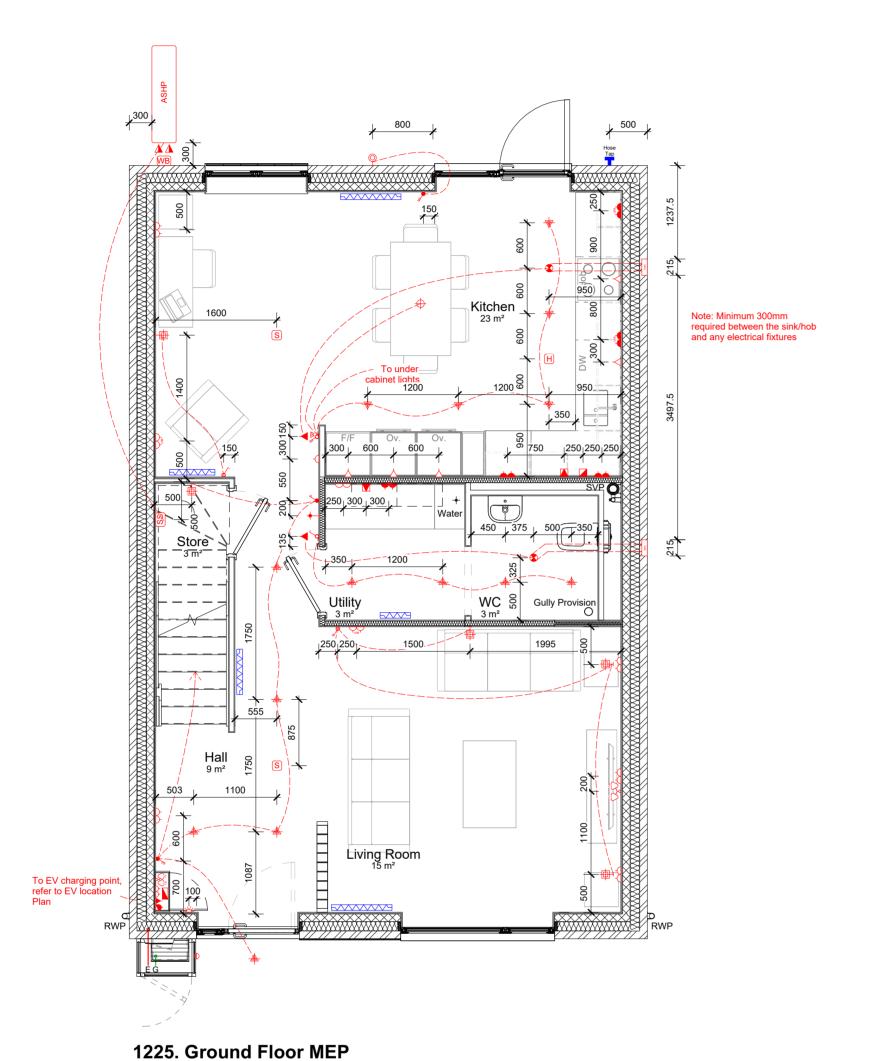
All materials and workmanship to be in accordance with current NHBC Technical Standards and Building Regulations.

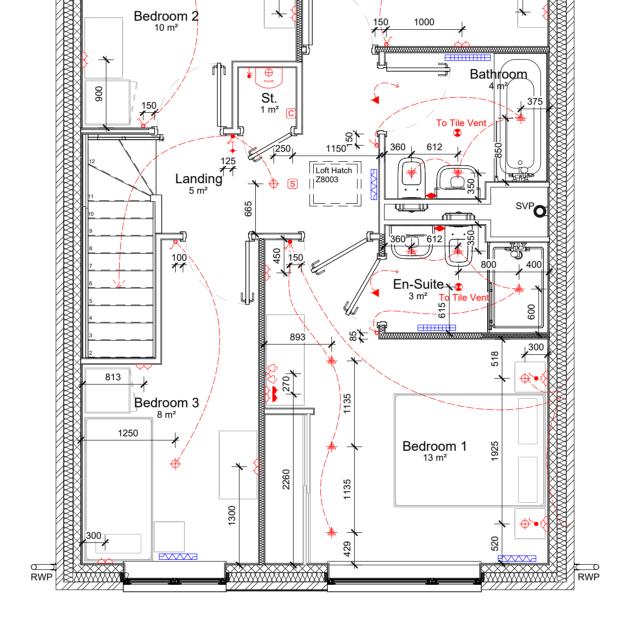




Flat Edge Tile Vent for Concrete Tiles 3
Boiler Flue Terminal and Flashing Kit 1

1:50



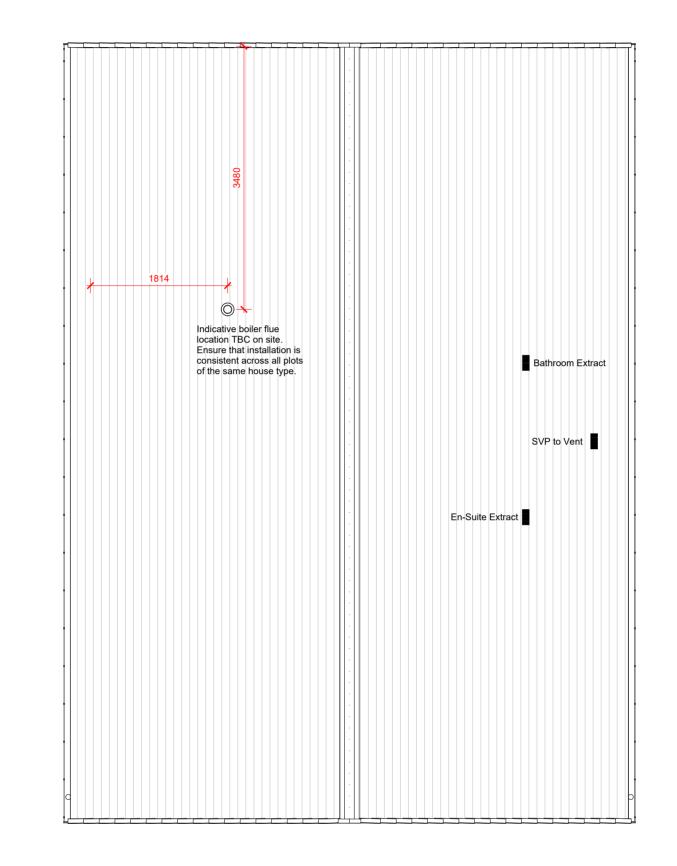


Bedroom 4

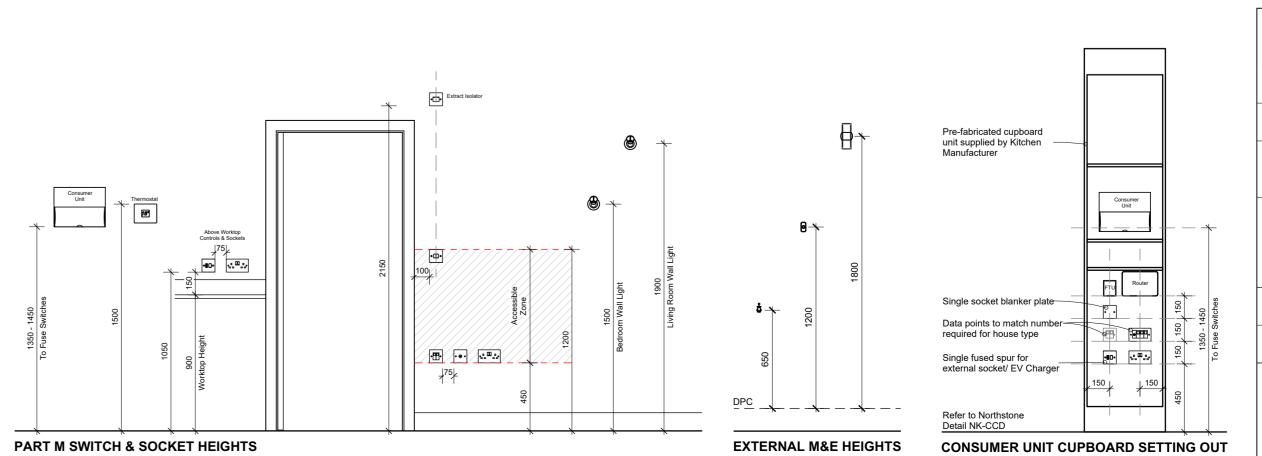
1300

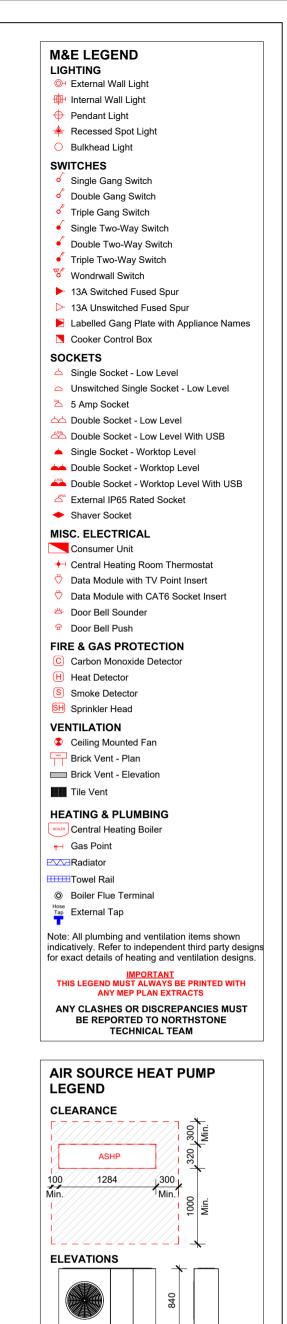
1:50

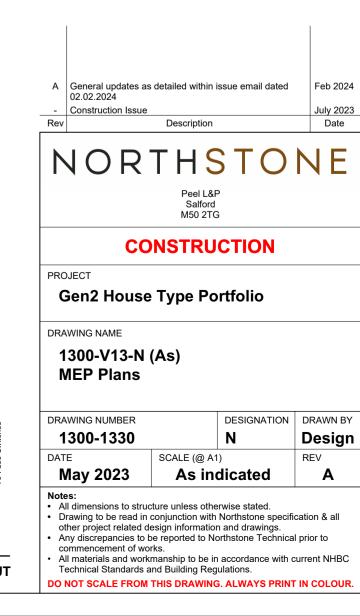












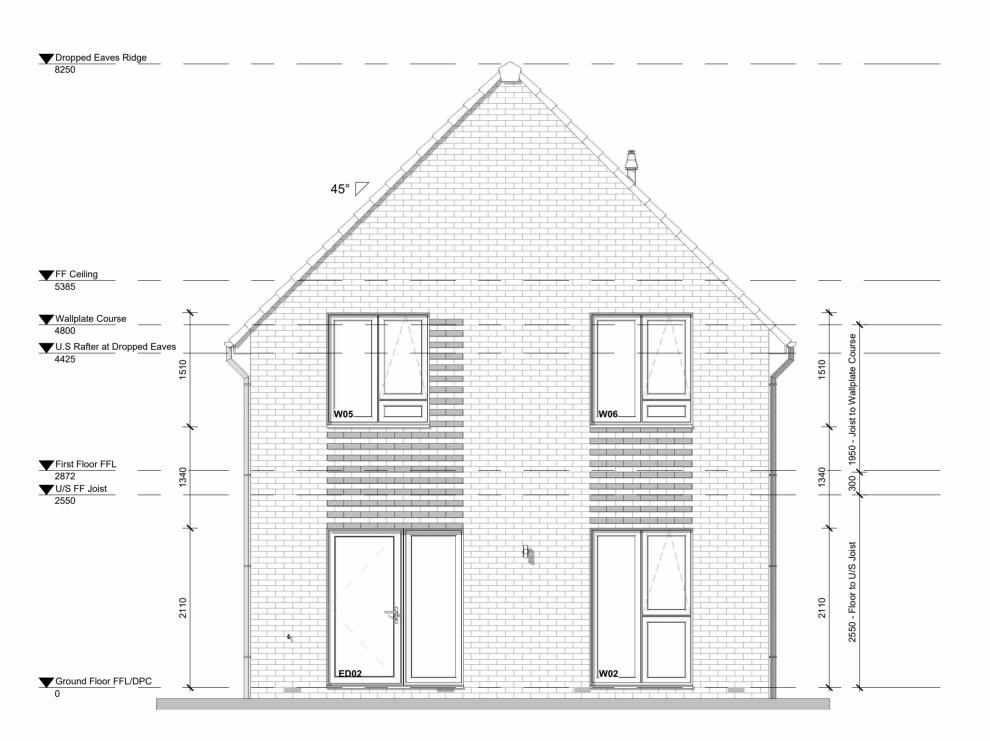
1284

ANCILLARY EQUIPMENT

▲ IP67 Rated Rotary Pole Isolator Switch WB IP66 Rated External Whisper Box SS Panasonic Smart Control Switch

Note: Air Source Heat Pump, (ASHP), and ancillary equipment shown indicatively. Refer to independent third party designs for exact details of ASHP System





1242. Rear Elevation 1:50

EXTERNAL M&E HEIGHTS

Critical glazing locations in internal and external walls for windows, doors and side lights in accordance with BS 6206 and all current building regulations. Shaded area indicates critical locations to which the requirements of Approved Document K(4) applies, (i.e. glazing falling within zones 1, 2, 3, 4, 5, 6 & 8).

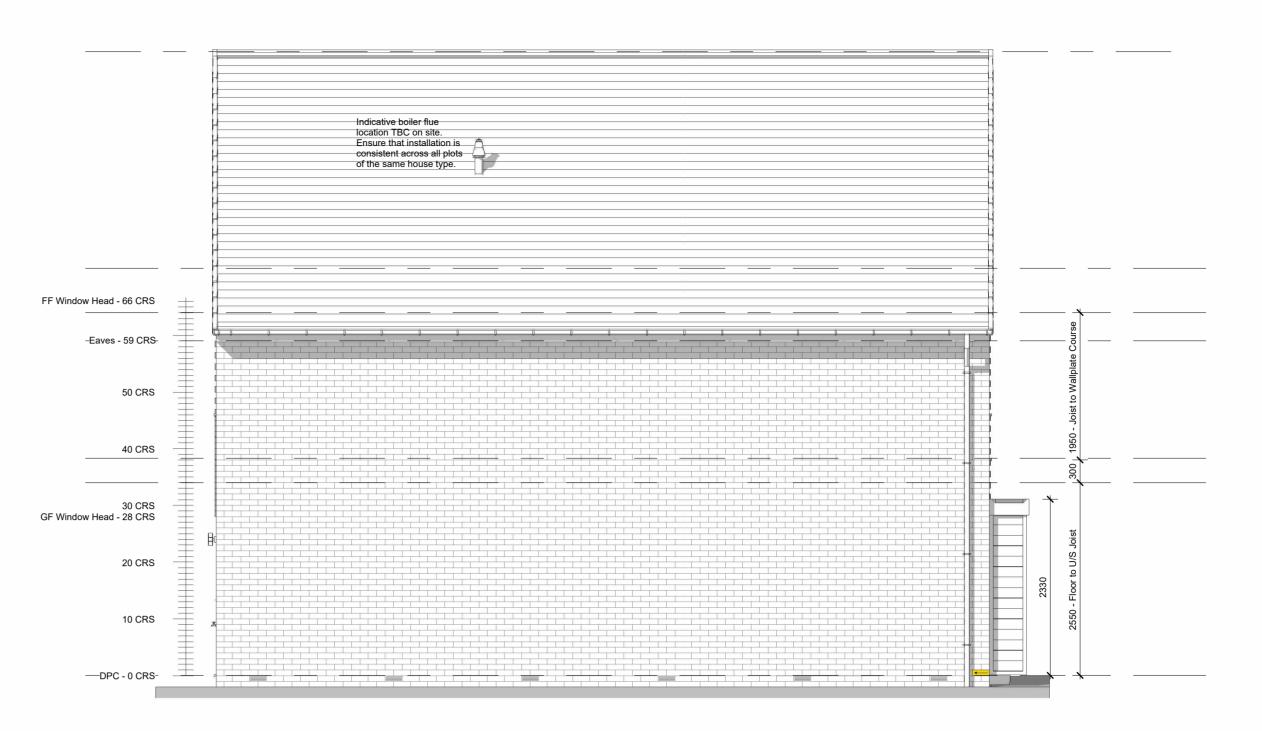
Unobstructed opening casement area to be at least 0.33M² and at least 450mm high and 450mm wide. Bottom of windows to be not more than 1100mm and not less than 800mm above the floor. Escape windows to have non lockable fasteners and hinged to achieve the minimum required opening.

All glazing in critical locations should:
a) If broken, will break safely.
b) Be sufficiently robust to resist breaking.

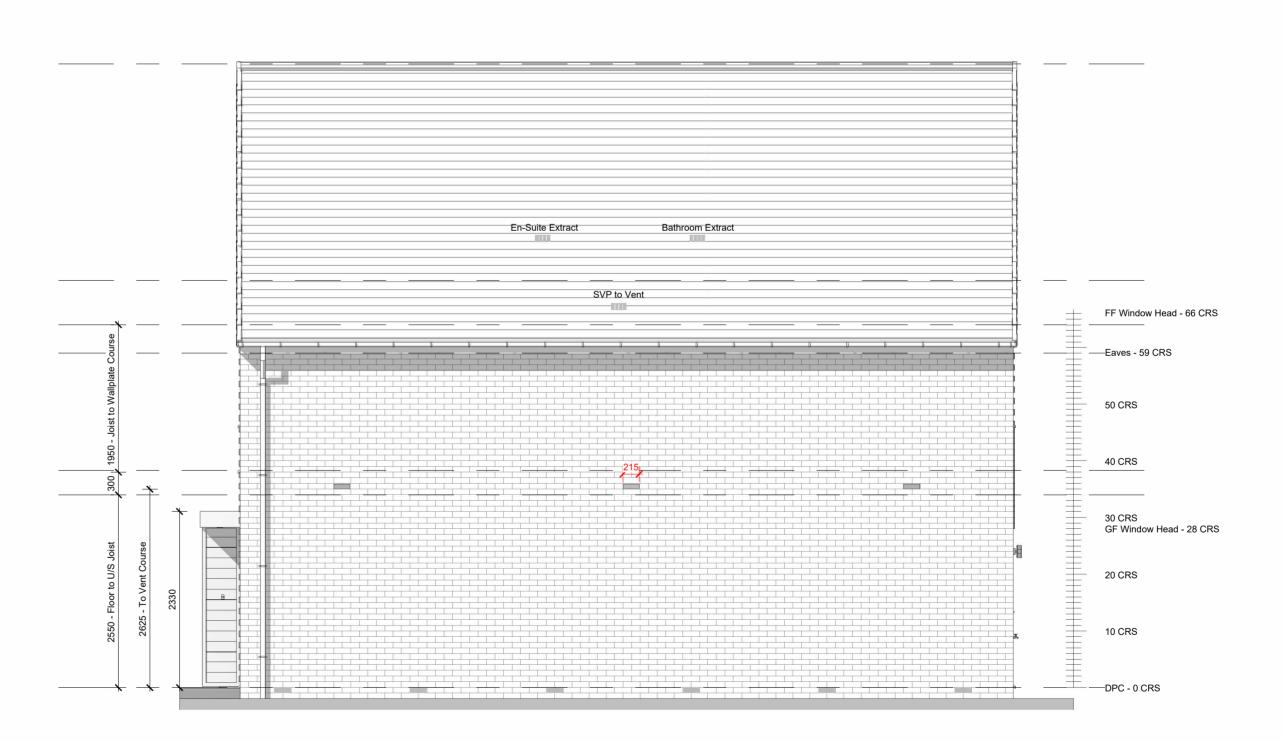
tes:
Schedules to be read in conjunction with all project specification documents, floor plans and elevations
Structural opening size includes any sidelights
Frame set back is taken from front face of brick
Refer to manufactures information for detailed lintel schedules
All accessible windows and doors to be PAS24 tested to comply with Part Q of building regulations
All dimensions to be checked on site prior to manufacture

Escape from upper storey a maximum of 4.5m above ground level: ALL inner rooms where applicable and all first floor habitable rooms (excluding kitchens) to be provided with an escape window (or external door) which complies with Approved Document B1 Section 2 Paragraph 2.2.

Dwellings with one storey more than 4.5m above ground level: A protected stairway should be provided with minimum 30 minute fire resisting construction at all storey's to comply with Approved Document B1 Section 2 Paragraphs 2.5.

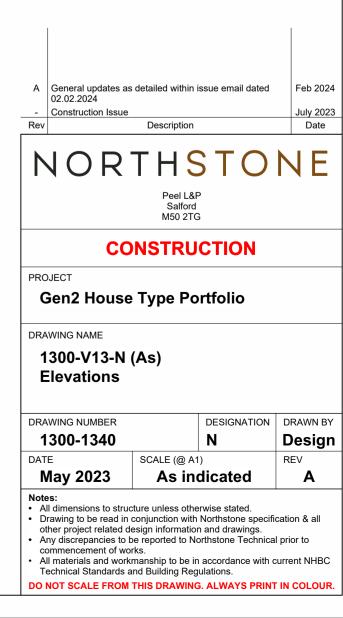


1241. LHS Elevation 1:50



1243. RHS Elevation

1:50



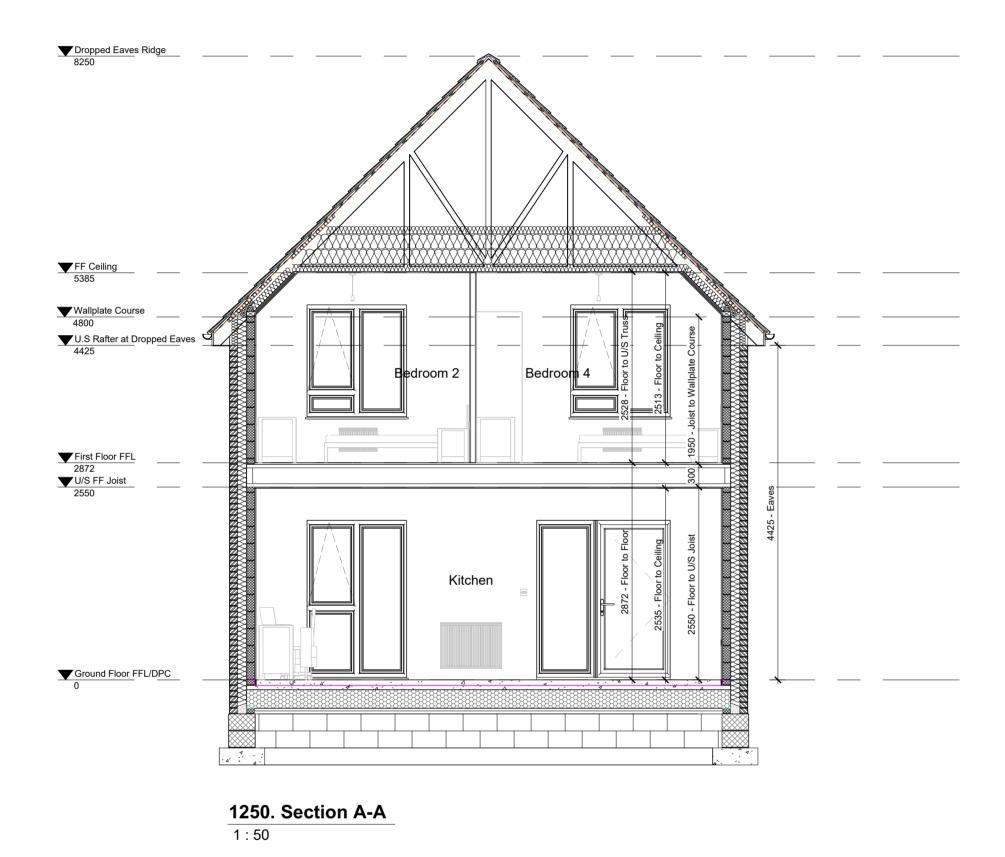
MEMBRANE KEY

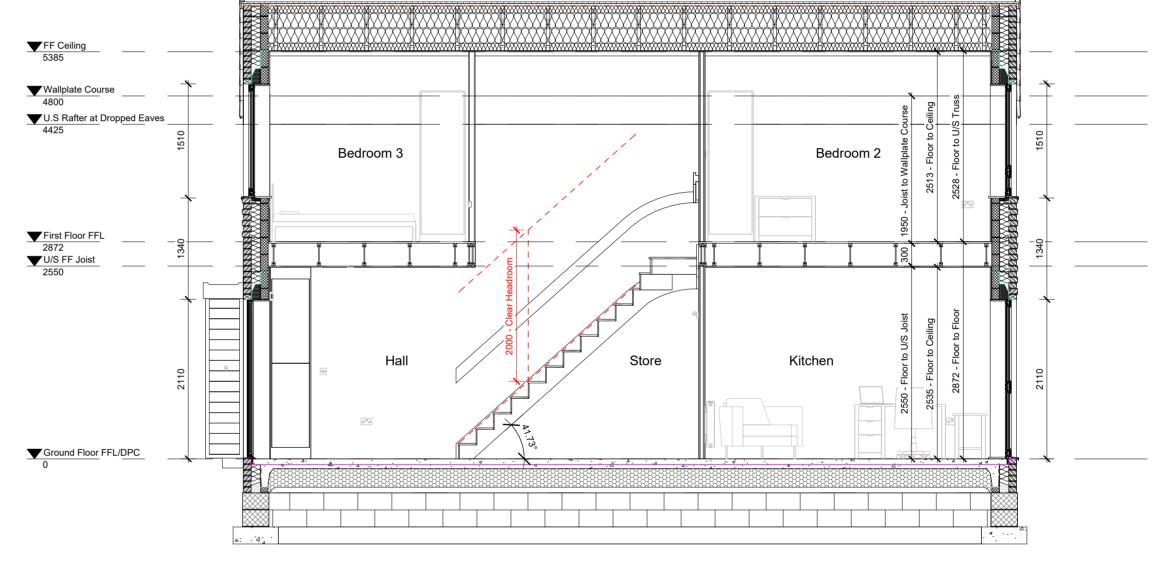
Damp Proof Course (DPC)

Damp Proof Membrane (DPM)

Roof Underlay

Breather Membrane





1251. Section B-B
1:50

