House Type C2 - 5P/3B

Social Housing Detached Unit

Wall Types
External Wall
The maximum permissible air permeability for each dwelling is to be 3.0m³(hr/m²) at 50 PA with a U-Value of 0.15W/m2K

REFER TO ELEVATIONS FOR TYPE OF BRICK AND BOND

Type A4
- 102.5mm facing brickwork F10/110
- 50mm cavity
- 110mm partial fill insulation F30/156
- 140mm concrete block work F10/355
- 10mm sand & cement plaster M20/110 with 3mm skim coat finish M20/202

Type B1
- 102.5mm facing brickwork F10/110
- Cavity as indicated

Type C (recessed brick panel)
- 102.5mm facing brickwork F10/110
- 100mm partial fill insulation F30/156
- 140mm concrete block work F10/355
- 10mm sand & cement plaster M20/110 with 3mm skim coat finish M20/202

Party Wall
Fire rating - 60 mins fire resistance duration
> 45dB airborne acoustic sound resistance as per Building Control Technical Booklets Part G Section 2
Air tightness of 3.0m³ /hr per m² at 50Pa

Type E
- 10mm sand & cement plaster M20/110 with 3mm skim coat finish M20/202
- 140mm concrete block work F10/355
- 150mm full fill insulation F30/156
- 140mm concrete block work F10/355
- 10mm sand & cement plaster M20/110 with 3mm skim coat finish M20/202

Internal Wall
All internal walls to achieve:
Fire rating - 30 mins fire resistance duration within apartments, 60 mins fire resistance duration as part of enclosure to ancillary storage accommodation. > 40dB airborne acoustic sound resistance within apartments.
> 45dB airborne acoustic sound resistance between apartments. as per Building Control Technical Booklets Part G Section 5

Type F
- 10mm sand & cement plaster M20/110 with 3mm skim coat finish M20/202
- 100mm concrete block work F10/355
- 10mm sand & cement plaster M20/110 with 3mm skim coat finish M20/202

Type H
- 12.5mm plasterboard K10/401 with 3mm skim coat finish M20/202
- 12.5mm plasterboard K10/401
- 75mm timber stud partition K10/205
- 12.5mm plasterboard K10/401
- 12.5mm moisture resistant plasterboard (to bathroom side) K10/403 with 3mm skim coat finish M20/202

Type I
- 10mm sand & cement plaster M20/110 with 3mm skim coat finish M20/202
- 215mm concrete block work F10/355
- 10mm sand & cement plaster M20/110 with 3mm skim coat finish M20/202

CB **Cavity Barrier**
Location of cavity barrier to achieve a fire rating of not less than 30 minutes

Cavity barriers within party walls F30/176
Cavity barriers elsewhere F30/178

Stair clear width - 950 unobstructed
Stair flight width - 1000mm
SS = Soil stack
SVP = Soil vent pipe

Rapid ventilation calcs - achieved with top hung friction hinges able to support the open window.

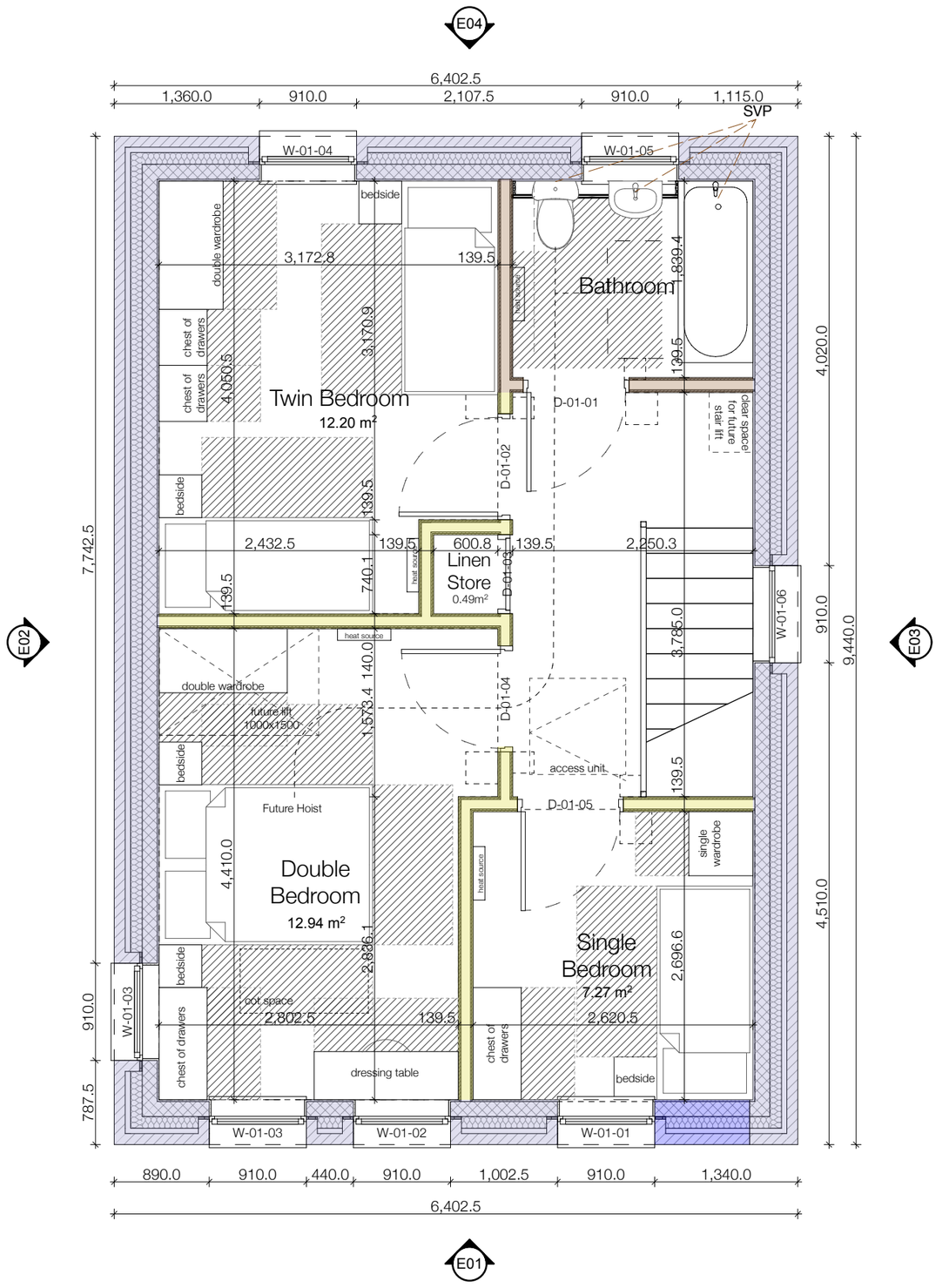
Living / Kitchen room
Floor area - 29.8m²
over 1.5m² window area required.
Window area provided - 1.5m²

Double bedroom
Floor area - 12.5m²
over 0.63m² window area required.
Window area provided - 0.68m²

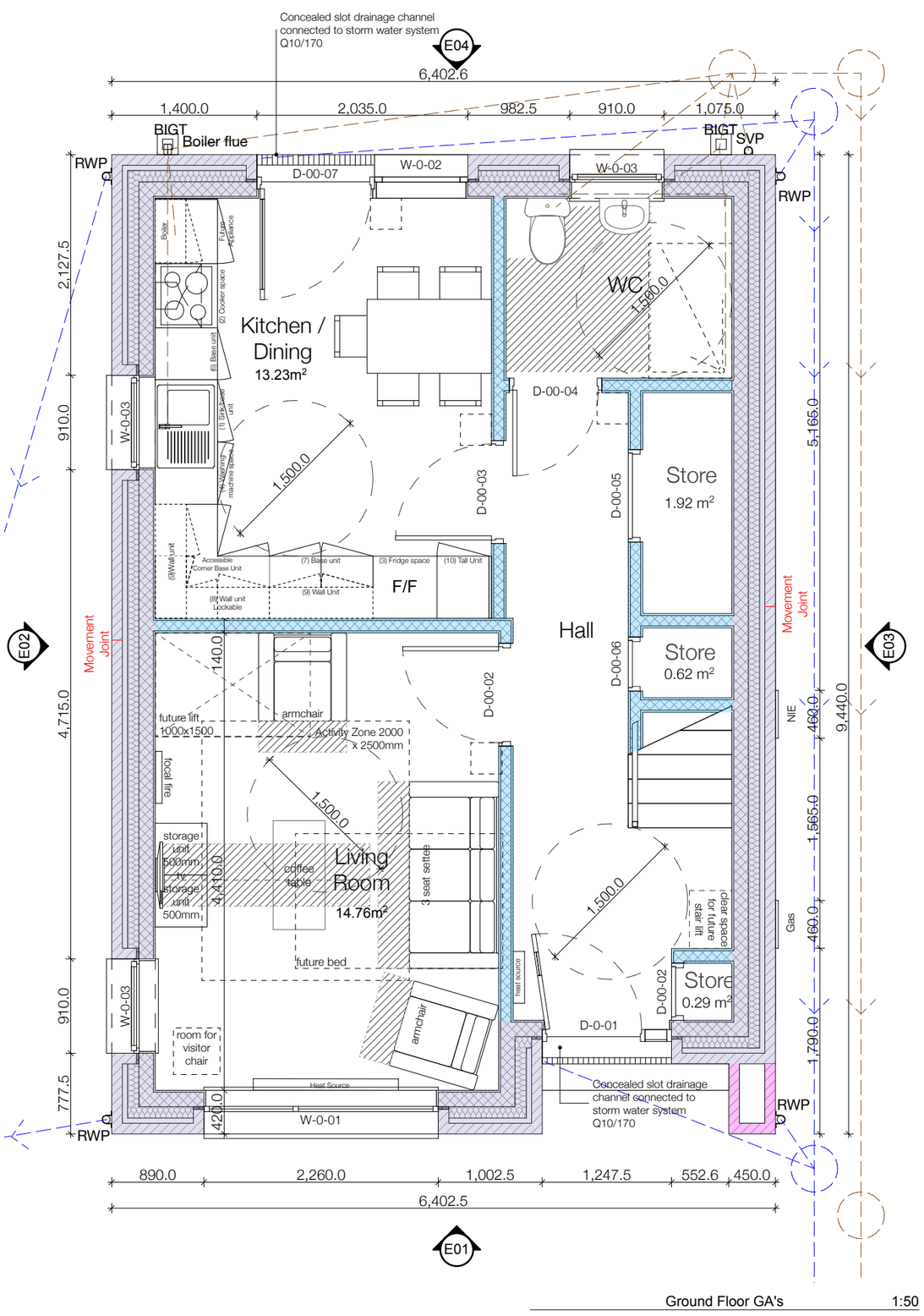
Twin bedroom
Floor area - 10.4m²
over 0.52m² window area required.
Window area provided - 0.84m²

Single bedroom
Floor area - 7.4m²
over 0.37m² window area required.
Window area provided - 0.84m²

Single bedroom
Floor area - 7.1m²
over 0.36m² window area required.
Window area provided - 0.84m²



First Floor GA's 1:50



Ground Floor GA's 1:50

NOTES
- Check all dimensions on site. Do not scale from this drawing.
- Report discrepancies and / or omissions to Hall Black Douglas.
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CONTRACTOR TO ALLOW FOR THE FOLLOWING TESTING:

1./ Submit UKAS accredited laboratory reports for the following: Maximum air pressure and corresponding deflection limits for each dwelling.

F2.59 The procedure for air pressure testing is given in the Air Tightness Testing and Measurement Association (ATTMA) publication Measuring air permeability of building envelopes (dwellings).
The manner approved for recording the results and the data on which they are based is given in Section 4 of that document. Trickle ventilators should be temporarily sealed rather than just closed.

F2.60 The district council should be provided with evidence that the test equipment has been calibrated within the previous 12 months using a UKAS accredited facility and that the tests have been carried out by a person who has received appropriate training and who is registered to test the specific class of building concerned.

F2.61 It would not be reasonable to test all dwellings in a development.
The aim is to enable lessons to be learned and adjustments to design and/or site procedures to be made before the majority of the dwellings are built.

F2.62 On each development, an air pressure test should be carried out on three units of each dwelling type or 50% of all instances of that dwelling type, whichever is less; and at least one of each type should be tested. The dwellings to be tested should be taken from the first completed batch of units of each dwelling type to confirm the robustness of the designs and the construction procedures.

F2.63 Each block of flats should be treated as a separate development irrespective of the number of blocks of flats on the site.

F2.64 The dwellings selected for test should be chosen by the district council in consultation with the pressure tester. They should be selected so that about half of the tests on each dwelling type are carried out during the construction of the first 25% of the dwellings of that type. All tests on dwellings in the sample should be reported to the district council including any test failures (see paragraphs 2.65 to 2.68)..
Materials, components and details: As used in testing/ assessment reports. If discrepancies arise, give notice.

2./ Sound insulation testing for the Building Regulations must be done in accordance with: BS EN ISO 140-4; BS EN ISO 140- 7; BS EN ISO 717-1; BS EN ISO 717- 2; BS EN 20354. When calculating sound insulation test results, no rounding should occur in any calculation until required by the relevant Standards, the BS EN ISO 140 series and the BS EN ISO 717series.

TO BE READ IN CONJUNCTION WITH ALL DETAIL DRAWINGS
NOTE: TANKING MEMBRANES AND COMPONENTS ARE CONTRACTOR DESIGN. LOCATIONS AND COMPONENTS SHOWN ON DETAIL ARE INDICATIVE. CONTRACTOR MUST USE A THIRD PARTY SPECIALIST FOR DESIGN, CERTIFICATION AND ANY CALCULATIONS REQUIRED. INFORMATION TO BE SUBMITTED TO ARCHITECT PRIOR TO INSTALLATION.
NB: ALL STRUCTURAL STEEL TO BE FIRE PROTECTED WITH 60 min. F.R. INTUMESCENT PAINT
AIRTIGHTNESS MAXIMUM PERMISSIBLE AIR PERMEABILITY OF EACH APARTMENT/DWELLING TO BE 3.0/m³/(hr./m²) AT 50 Pa

ALL STRUCTURE IS INDICATIVE AND IS A CONTRACTOR DESIGNED ITEM

NO.	AMENDMENT	DATE	BY	CHECKED

Radius Housing

CLIENT

Newhill
Whiterock Road, Co. Antrim

PROJECT

HT C2 Floor Plans

DRAWING

6018-GA-070-00		1:1000, 1:50	08.11.21
DRAWING NUMBER	REVISION	SCALE	DATE
		MT	**RH**
		DRAWN	CHECKED

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