Exit signage should be provided to every doorway, other than exits in ordinary use (main entrances). Signage should be in accordance with BS ISO 3864-1 and BS 5499-4. Futher advice on fire safety signs, including emergency escape signs, is given in the HSE publication	Fire dampers and fire and smoke dampers should be sited within the thickness of the fire separating element, securely fixed and sited so that in a fire, expansion would not push the fire damper through the structure. Fire dampers and fire and smoke dampers should conform to BS		Approved Document E - Acoustics:	COPYRIGHT NOTICE: This drawing is the copyright of the Architects and may not be reproduced or used except by written
Safety Signs and Signals: Guidance on Regulations.	EN 15650 and have a minimum E classification of 60 minutes.	A site investigation is required to be undertaken and should contain the following sections: Planning Stage	Please refer to the approved documents for definitions and a full list of codes, standards and references for all building types referred to.	©Crown copyright and database rights(2014) Ordnance Survey licence number100047514
Power circuits should be protected to limit damage to cables, they should be sufficiently robust,	Smoke detection should be sited as to prevent the spread of smoke as early as practicable by	Desk Study		
carefully selected and protected in areas where cables may be exposed to damage. Cable	activating the fire and smoke dampers through automatic release mechanisms, conforming to BS		Requirement E1: The dwelling shall be designed and constructed in such a way that they provide	
support should be class A1 rated and offer at least the same integrity as the cable. They should maintain circuit integrity and hold cables in place when exposed to fire. During a fire a protected		Main Investigation and Reporting	reasonable resistance to sound from other parts of the same building.	This drawing is to be read in conjunction with all relevant drawings and specifications. Do not scale from this drawing. Use figured dimensions only. All levels and dimensions to be checked on site. All level
circuit should be installed to operate equipment, being separate from any circuit provided for			Requirement E2: The dwelling shall be designed and constructed in such a way that internal	and dimensional discrepancies are to be bought to the immediate attention of HSSP Architects ttd. Responsibility cannot be accepted for alteration and/or deviation from this design without prior acknowledgement of HSSP Architects ttd.
another purpose, in accordance with BS EN 50200.	Requirement B4:		walls between a bedroom or a room containing a water closet, other rooms and internal floors.	Copyright reserved. This drawing may only be used for the client and location specified in the title block. It may not be copied or disclosed to any other third party without prior written consent from HSSP Architects Itd.
	The external walls of the building shall adequately resist the spread of fire over the walls and from one building to another, having regard to the height, use and position of the building.		NOTE: Requirement E2 doeas not apply to internal walls containing a door, an internal wall	Prior to any works commencing on site, the engineer is to be contacted regarding the current status, revision or regulatory approval of this drawing. All work to be to the sortice settiscation of the NHBC or Local Authority not withstanding anything shown or indicated on
		o o o o	separating an ensuite from n associated bedroom or existing walls and floors in a building which is subject to a material change of use.	All work to be to the entire satisfaction of the NHBC or Local Authority not withstanding anything shown or indicated on these drawings. All workmanship and materials to be the best of their respective kind and at least equivalent of the appropriate British Standard Code of Practice. All relevant dimensions and levels to be ascertained or checked and
Requirement B2:	building to another, boying report to the year and position of the building	building at least to a depth to prevent later growth. The effects of roots close the proposed building should be assessed in accordance with NHBC and BRE Digests 298, 240 and 241.	is subject to a matchar change of use.	verified on site before specific areas of work are commenced. This drawing is to be read in conjunction with clients specification/employers requirements and structural engineers
To inhibit the spread of fire within the building, the internal linings shall adequately resist the		Puilding convises i.e. below ground drainage, should be repust and flexible to accommodate to	Section 0: Performance:	design.
spread of flames over their surfaces. They should have, if ignited, a rate of heat release or a rate of fire growth, which is reasonable in the circumstances.		presence of any tree roots.	Section 0. renormance.	
			Internal walls and internal floors are to be protected from Airborne Sound and achieve a minimum of 40 RwdB (refer to ADE Section 0: Table 0.2, Diagram 0.2 and Diagram 0.3. Walls which	ı
Castion 6:	The external walls of the building should have the appropriate fire resistance given in ADB2		contain doors are excluded from this requirement.	
Section 6:	Appendix A, Table B1 unless they form an unprotected area.	Section 2: Resistance to Contaminants		
The surface linings of walls and ceilings should meet the classifications in Table 6.1			Section 1: Pre-completion Testing:	
For surface spread of flame and classification of linings please refer to HSSP Floor Plans.	Section 13:	A site investigation is required to determine whether or not contaminants are present.		
FOR SUFface spread of harme and classification of minings prease refer to moor moor mans.		The ground conditions have been assumed to be clay based upon ADC diagram 1. All DPC's	Sound testing should be undertaken in accordance with ADE Section 1 for dwellings. These will	
The need for cavity barriers in concealed floor or roof spaces can be reduced by installing a fire	Please refer to the site plan for the position of relevant boundaries and percentage of	must provide a barrier to potential radon gases, Monarflex RMB400 or similar and approved.	consist of two airborne tests as follows:	
resisting ceiling (minimum El 30) below the cavity, complying with ADB2 Diagram 9.3.	•	The guidelines set out in ADC must be followed in terms of dealing with site contaminants, should	A test of insulation against airborne sound between one pair of rooms (where possible suitable for use as living rooms) on opposite sides of the separating floor.	
	To be in accordance with ADB2 Section 13 Diagram 13.2, Diagram 13.3 and Diagram 13.5. Permitted upprotected areas shall comply with Table 13.1 of ADB2 Section 13.	any be found.	suitable for use as living rooms) on opposite sides of the separating floor. A test of insulation against airborne sound between another pair of rooms (where possible	
Requirement B3:	Permitted unprotected areas shall comply with Table 13.1 of ADB2 Section 13.	Damp Proof Course at 150mm minimum above finished ground level lapped with damp proof	A test of insulation against airborne sound between another pair of rooms (where possible suitable for use as bedrooms) on opposite sides of the separating floor.	
The building shall be designed and constructed so that, in the event of a fire, it's stability will be	A subscription of a	membrane, stepped DPC inside cavity, all lapped and taped fully in accordance with	They should be undertaken and recorded in accordance with the requirements of ADE Section	
maintained for a reasonable period.	Section 14:		1:1.29 to 1.41.	
A wall common to two or more buildings shall be designed and constructed so that it adequately	, Roof coverings to National Class AA, AB or AC, to comply with ADB2 Table 14.1 and Appendix B	B with ADC Section 5, diagram 8 and 9.		
resists the spread of fire between those buildings.	Table B3.		If sound testing is not desirable then the areas applicable could be constructed to Robust Details	
Where reasonably necessary, to inhibit the spread of fire within the building, measures shall be taken where appropriate, to sub-divide the building with fire resisting construction.			Ltd, subject to the contractor being registered.	
The building shall be designed and constructed so that the unseen spread of fire and smoke	Requirement B5:	Section 3: Subsoil Drainage	and the second	
within concealed spaces in its structure and fabric is inhibited.	The building shall be designed and constructed so as to provide reasonable facilities to assist	The proposed development is not expected to alter the ground water table conditions therefore	Section 5: Internal Walls & Floors for New Buildings	
	firefighters in the protection of life.	localised flooding is not expected. The site falls within flood zone 1 using the flood map for	The section 5	
Section 7:	Reasonable provision shall be made within the site of the building to enable fire appliances to gin	planning, therefore there is a very low probability of flooding. A flood risk assessment is not	Internal wall types D is applicable to ground floor internal walls, please refer to ADE Section 5: 5.20 and Diagram 5.4.	
	access to the building.	required.	Internal wall types A or B are applicable to first floor internal walls, please refer to ADE Section 5:	.
All penetrations or openings through a compartment wall or fire element must be suitably fire			5.17, 5.18, Diagram 5.1 and 5.2,	
stopped in accordance with ADB2 Appendix B Table B3.	Section 15:	During excavation works care must be taken to prevent the potential transport of water bourne contaminants, should any be present	Internal floor type C or D is applicable to the first floor, please refer to ADE Section 5: 5.23 and	
			Diagram 5.7.	
Section 8:	Access to buildings for pump applicances should be within 45m of every point of the footprint as per ADB2 Section 15, Diagram 15.1 and Table 15.1.	Section 4: Floors		
	per ADDZ deditor ro, Diagram roll and rable rell.		All doors and openings to have good perimeter sealing. Doors to have a minimum mass per unit area of 25kg/m ² or, if using a door-set, a sound reduction index of 29dBRw.	
All compartment walls are to be taken to the underside of the roof and suitably fire stopped in accordance with ADB2 Section 8 Diagram 8.1a, table 8.1. Compartment walls and floors should	Regulation 38:	The ground supported floor must prevent the passage of moisture from the ground and formation	area or 25kg/m² or, it using a door-set, a sound reduction index or 2000 two.	
form a complete barrier to fire between compartments they separate, have appropriate fire	Where a building is being extended, the person carrying out the works shall give fire safety	of condensation. The floor should be built on well compacted hardcore no greater than 600mm	All gaps around internal should be adequately filled to avoid air paths between rooms.	
resistance compliant with Appendix B, Tables B3 and B4. Where timber beams, joists, purlins	information to the responsible person not later than the date of completion of the work, or the	deep of clean broken brok of similar men material, nee from materials including water-soluble	All gaps around internal should be adequately lined to avoid an patho betheory roome.	
and rafters are built into or carried through masonry compartment walls, they should be addequately fire stopped	date of occupation of the building or extension, whichever is the earlier.	sulphates in quantities which could damage the concrete (BRE Digest 276); and concrete at least 100mm thick (but thicker if the structural design requires) to mix ST2 in BS 8500 or, if there is	Please refer to specification for wall and floor build-ups.	
addequately fire stopped. The roof, 1500mm either side of the compartment, should have a covering classified as		embedded reinforcement, to mix ST4 in BS 8500; and damp-proof membrane above or below the	Please refer to specification for wait and noor build-ups.	
The roof, 1500mm either side of the compartment, should have a covering classified as BROOF(t4), on a substrate or deck of a material rated class A2-s3, d2 or better, as set out in	Section 19:	concrete, and continuous with the damp-proof courses in walls, piers and the like. If the ground	· · · ··· ··· ··· ··· ··· ··· ···	
Diagram 8.2a.		could contain water soluble sulphates, or there is any risk that sulphate or other deleterious matter could contaminate the hardcore, the membrane should be placed at the base of the	Approved Document F - Ventilation:	
-	Information should be provided to Building Control setting out the following; escape routes, location of fire separating elements, fire doorsets, self closing devises and relevant hardware,	concrete slab	The second standards and	
Section 9:	location of fire separating elements, fire doorsets, self closing devises and relevant hardware, locations of fire and smoke detectors, alarm call points, control boxes, alarm sounders, fire safety		Please refer to the approved documents for definitions and a full list of codes, standards and references for all building types referred to.	
	signage, emergency lighting, fire extinuishers. Details should also include assumptions relating	A suitable DPM must be provided which should be a minimum of 300µm thick (1200 guage),		
Cavities in the construction of a building provide a ready route for the spread of smoke and	to the management of the building in the design of fire safety arrangements and the provision of the evacuation of disabled people. As set out in ADB2 Section 19 Paragraph 19.3, 19.4.	ioints to be sealed and laid onto a bed of material that will not damage the sheet	Requirement F1:	
flame, which can present a greater danger as any spread is concealed. For the purpose of this document, a cavity is considered to be any concealed space. To reduce the potential for fire	the evacuation of disabled people. As set out in ADD2 Section 191 arayiapin 19.9, 19.7.		There shall be adequate means of ventilation provided for people in the building.	
spread, cavity barriers should be provided in accordance with ADB2 Section 9 Diagram 9.1.	Appendix C: Fire Doors	Floors should be constructed to resist surface condensation and mould growth. The thermal	Fixed systems for mechanical ventilation and any associated controls must be commissioned by	
	Appendix C: Fire Doors	transmittance should not exceed 0.7 w/m ⁻ K at any point and all junctions are designed to	testing and adjusting as necessary to secure that the objective referred to above.	
Ceilings should meet the minimum fire resistance of EI30 in accordance with ADB2 Diagram 9.3.	All doors on the escape route should be readily operable from the side approached by people		The person carrying out the work once completed, must give sufficient information to the building	,
	 All doors on the escape route should be readily operable from the side approached by people making the escape. 	Section 5: Walls	owner within five days, related to the ventilation system and it's maintenance.	
Openings should be limited to the following instances:			The person carrying out the works must serve notice to the building control body that the fixed	
a. Fire doorsets with a minimum rating of E 30, fitted in accordance with Appendix C.	The fire resistance of the doors should be in accordance with ADB2 Appendix C Table C1.		services have been commissioned in accordance with the procedure approved by the Secretary of State. This must be received by the building control body no later than 30 days after the	
b. The passage of pipes that follow the provisions in Section 10, table 10.1, diagram 10.1.		formation of condensation. A suitable damp proof course should be installed which is continuous	completion of the works.	
	All elements of structure are to be in accordance with ADB2 Apendix B26, Table B3 or as shown	with the damp proof membrane, at least 150mm from the ground level and the cavity taken at		
c. The passage of cables or conduits containing one or more cables.	on HSSP floor plans.	 least 225mm below the lowest level of the damp proof course. Weep holes should be provided every 900mm. Please refer to ADC Section 5: Diagram 8 & 9. 	Section 4:	
d. Openings fitted with a suitably mounted and appropriate fire damper.	Approved Document C - Site:	All external walls should also provide protection from precipitation in accordance with ADC		
e. Ducts that are either of the following.	Approved Document o - one.	Section 5: 5.12 - 5.18.	To minimise noise disturbance for the occupants, quieter ventilation products must be specified	
i. Fire resisting (minimum E 30).	Please refer to the approved documents for definitions and a full list of codes, standards and		and approved by the designer. The noise level in habitable rooms i.e. bedrooms, should not exceed 30dB LAeqT as set out in BS8233:1999. For less sensitive rooms, this should not exceed	L
	references for all building types referred to.	The building exposure zone is class 1 (ADC Section 5: Diagram 12) therefore a 125mm full fill	35dB LAeqT as set out in BS8233:1999. For less sensitive rooms, this should not exceed 35dB LAeqT as set out in BS8233:1999.	
ii. Fitted with a suitably mounted and appropriate fire damper where they pass through the cavity barrier.		cavity is acceptable (See ADC Section 5: Table 4). Mortar joints within the brickwork are to be	Any ducts passing through fire / compartment walls must be suitably fire stopped in accordance	
	Requirement C1:		with approved document B.	
	The ground to be covered by the building shall be reasonably free from any material that might		The mechanical systems must be commissioned in accordance with the Domestic Ventilation	
Section 10:	damage the building or affect its stability, including vegetable matter, topsoil and pre-existing foundations.		Compliance Guide.	
The performance of a fire-separating element should not be impaired. Every joint, imperfect fit		Where level threshold access is provided, the external landing is laid to fall away from the door at	All documents as listed in the Domestic Ventilation Compliance Guide should be given to the dwelling owner and building control body at handover.	

The performance of a fire-separating element should not be impaired. Every joint, imperfect fit and opening for services should be sealed. Fire-stopping delays the spread of fire and, generally, the spread of smoke as well, should comply with ADB2 Section 10, table 10.1, diagram 10.1. Where uPVC pipes are to be used, these should also comply with BS4514 or BS5255.

Duct work for mechanical ventilation and air conditioning systems should not help to transfer fire and smoke through the building. Terminals of exhaust points should be sited away from final exits, cladding or roofing materials achieving class B-s3, d2 or worse and openings into the building. Ductwork should comply with ADB2 section 10, diagram 10.2 or diagram 10.3.

Non- domestic kitchens and plant rooms should have separate and independent extraction systems, extracted air should not be recirculated in accordance with ADB2 Section 10.

Reasonable precautions shall be taken to avoid danger to health and safety caused by contaminants on or in the ground covered, or to be covered by the building and land associate with the building.

adequate subsoil drainage shall be provided if it is neded to avoid the passage of ground moisture to the interior of the building or damage to the building.

Requirement C2:

The walls, floors and roof or the building shall adequately protect the building and people who use the building from the harmful effects caused by ground moisture, rain, condensation and water spillages.

Where level threshold access is provided, the external landing is laid to fall away from the door at dwelling owner and building control body at handover. between 1 in 40 and 1 in 60 with the cill having maximum slope of 15°.

To resist damage from interstitial condensation, all external walls are to be in accordance with BS5250:2002 and BS EN ISO 13788:2002. The thermal transmittance should not exceed 0.7W/m²K at any point and all junctions are designed to accredited construction details or the guidance in BRÉ IP17/01.

Section 6: Roofs

The proposed pitched roof should have overlapping dry joints, impervious or weather resisting and backed by a material which will direct precipitation which may enter to the roof outer face. Each roof tile should be fixed in an appropriate manner in accordance with BS8000-6:1990.

The proposed flat roof should have sealed joints and be impervious to moisture. Each section should be fixed in an appropriate manner in accordance with BS8000-6:1990.

To resist damage from interstitial condensation, all roof finishes are to be in accordance with BS5250:2002 and BS EN ISO 13788:2002. To avoid excessive moisture transfer to roof spaces, all penetrations must be suitably filled and sealed.

Section 7:

When building work is carried out on an existing building, the work should comply with the applicable requirements of Schedule 1 to the Building Regulations, and the rest of the building should not be made less satisfactory in relation to the requirements than before the work was carried out (see regulations 3 and 4 of the Building Regulations). Further, when a building undergoes a material change of use, as defined in regulation 5 of the Building Regulations (see paragraph 3.17 above), Part F applies to the building or that part of the building which has been subject to the change of use, in accordance with regulation 6. Therefore, the guidance in other sections of this Approved Document may be applicable.

Where the original windows were fitted with trickle ventilators the replacement windows should include them and they should be sized. In all cases where trickle ventilators (or an equivalent means of ventilation) are to be fitted, the new ventilation opening should not be smaller than was originally provided, and it should be controllable. Where there was no ventilation opening, or where the size of the original ventilation opening is not known, the following minimum sizes should be adopted.

- occupiable rooms: for floor areas up to 10 m2 2500 mm2 equivalent area; greater than 10 m2 – at the rate of 250 mm2 equivalent area per m2 of floor area
- kitchens (domestic type) 2500 mm2 equivalent area
- bathrooms and shower rooms 2500 mm2 equivalent area per bath or shower
- sanitary accommodation (and/or washing facilities) 2500 mm2equivalent area per WC

Intermittent extract is to be provided to the kitchen areas, bathrooms and other sanitary accommodation. Sufficient purge ventilation should be provided to all habitable rooms.

All internal doors should have an undercut for air transfer of 10mm above the finished floor level.

Using table 5.1a the new dwelling is to achieve the following minimum intermittent extract rates per room type:

Kitchen 60 l/s (30l/s adjacent to the hob)

Bathroom/Ensuite 15 l/s

WC 6 l/s



