

Project Name:

Build Aviator

Project Number: 1234-1234-1234

Project Name: Build Aviator

Project Address
First Floor,
Ross House
Bury St Edmunds
IP23 7AR

Client Name: Build Aviator

Designer: Elliot Ball

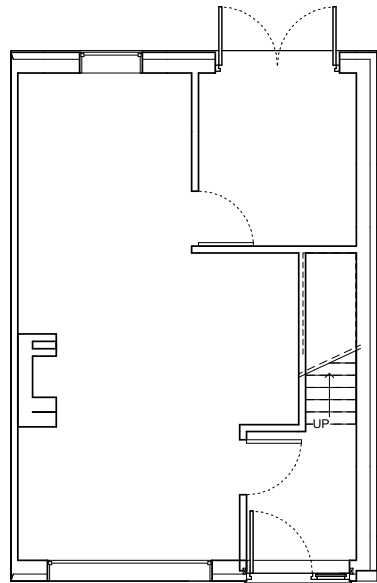
Service Level: Building

Issue Date: 26/01/2022

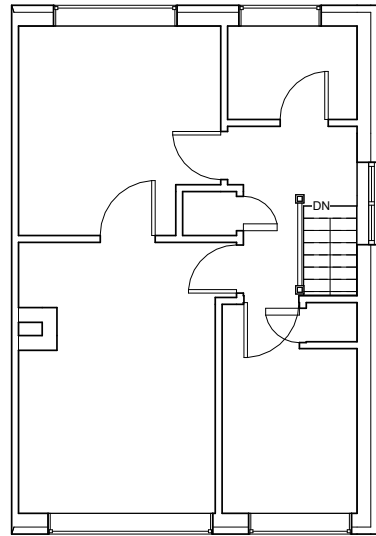


**1st Floor
Ross House
Kempson Way
Bury St Edmunds
IP32 7AR
Tel: 01359 256311
Email:**

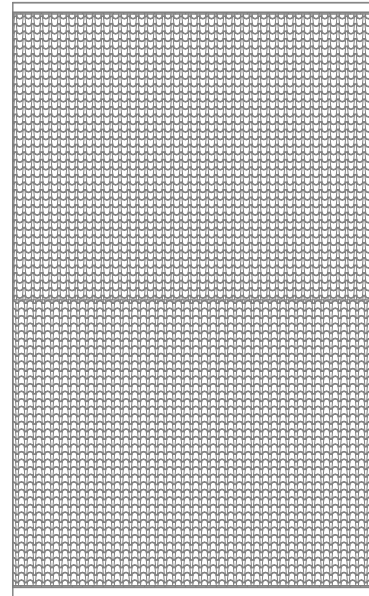
www.buildaviator.co.uk



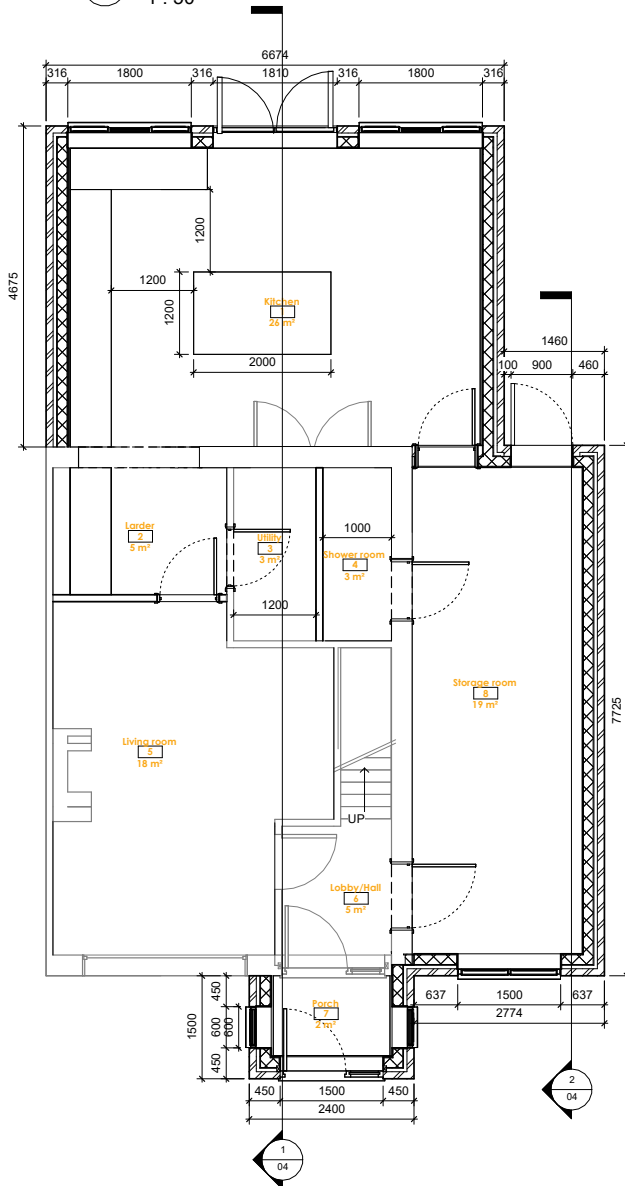
1 00 Existing GF Plan
1 : 50



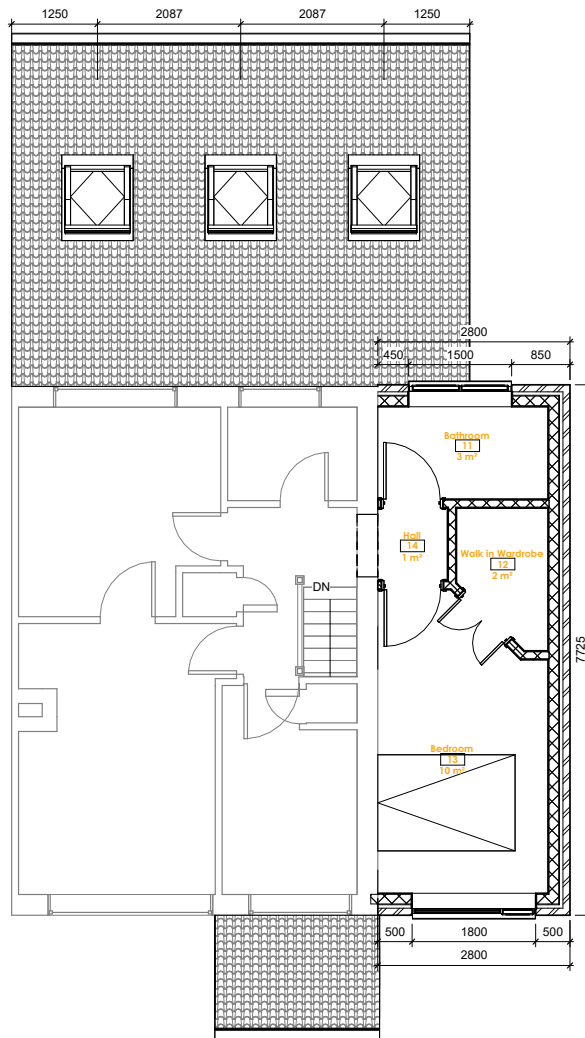
2 01 Existing First Floor Plan
1 : 50



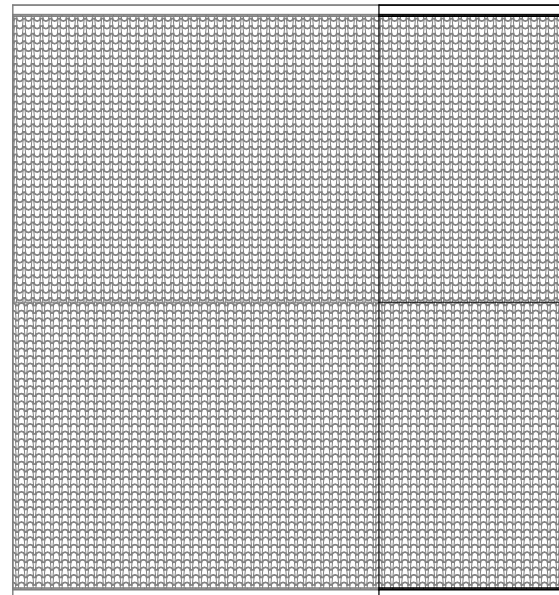
3 02 Existing Roof Plan
1 : 50



4 00 Proposed Ground Floor Plan
1 : 50



5 01 Proposed First Floor Plan
1 : 50



6 02 Proposed Roof Plan
1 : 50



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By Design

1st Floor
Ross House
Kempson Way
Bury St Edmunds
IP32 7AR

Tel: 01359 256311
Email: plandrawing@buildaviator.co.uk

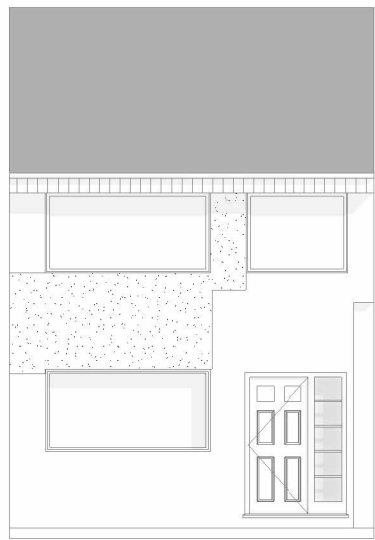
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Rev	Description	Date

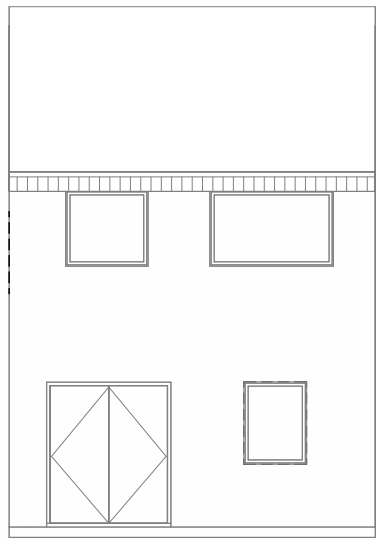


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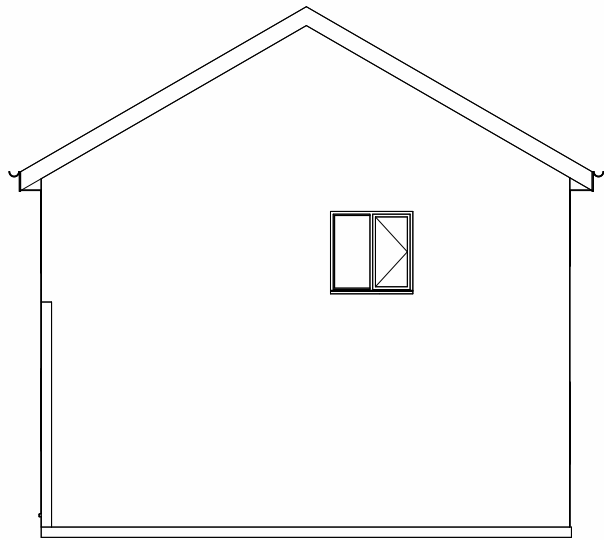
PROJECT	Build Aviator First Floor, Ross House Bury St Edmunds IP23 7AR	
TITLE	Existing & Proposed Plans	
CLIENT	Build Aviator	
SCALE	1 : 50	DATE 26/01/2022
DESIGNER	Elliot Ball	
PROJECT NUMBER	1234-1234-1234	
DRAWING NUMBER	02	



1 Existing Front Elevation
1 : 50



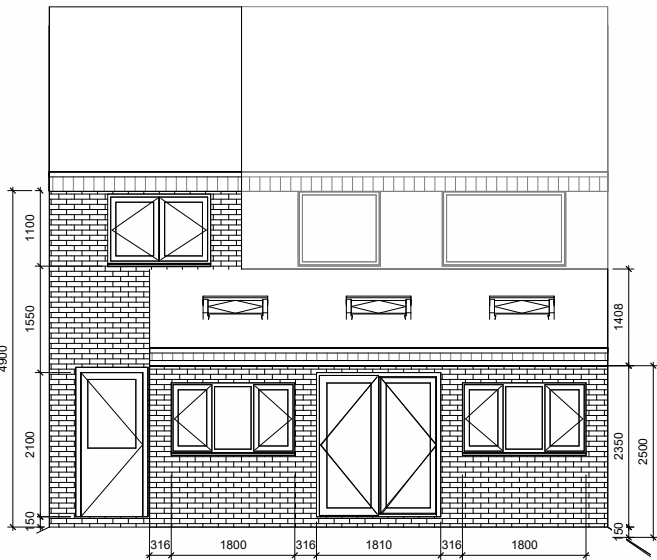
2 Existing Rear Elevation
1 : 50



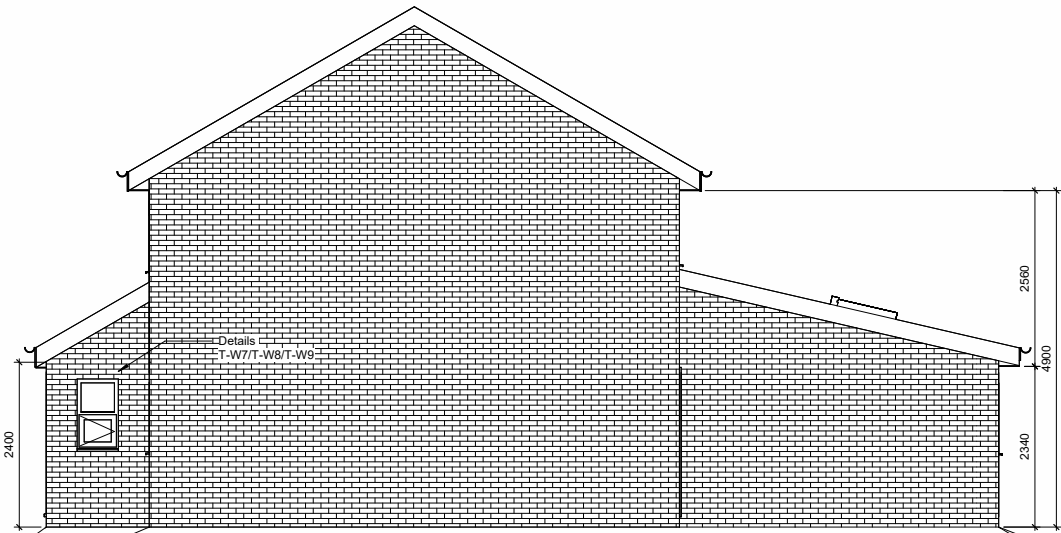
3 Existing Side elevation
1 : 50



4 Proposed Front Elevation
1 : 50



5 Proposed Rear Elevation
1 : 50



6 Proposed Side elevation
1 : 50



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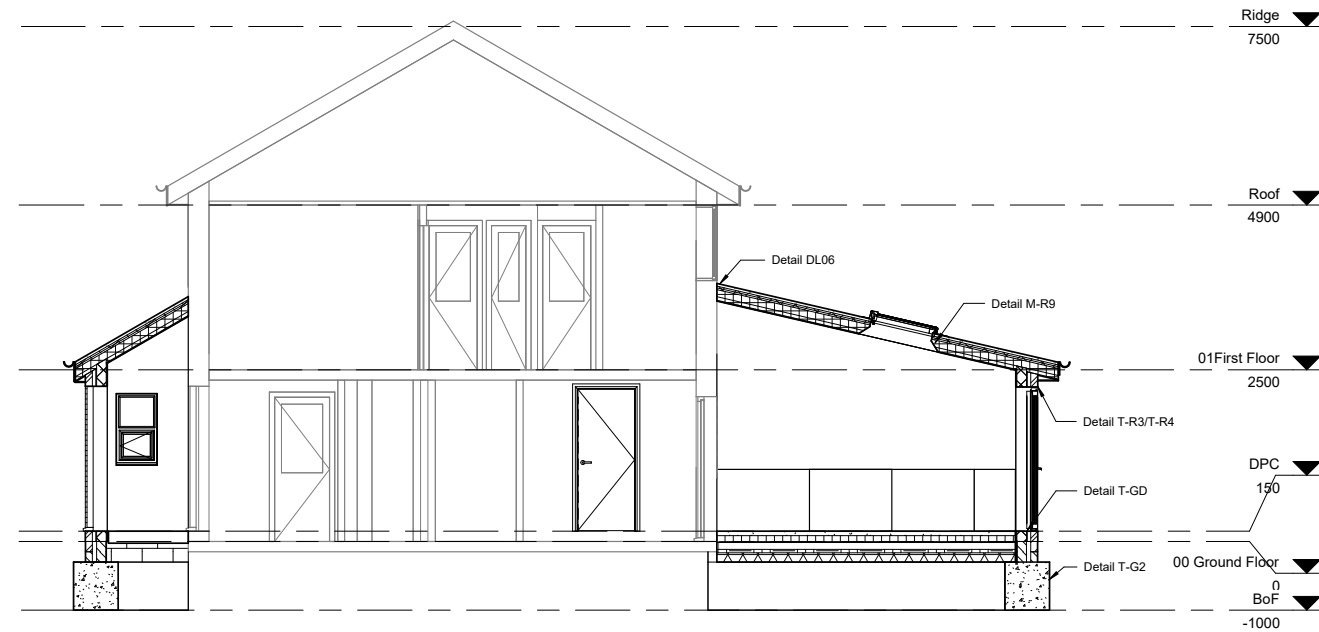
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Rev	Description	Date

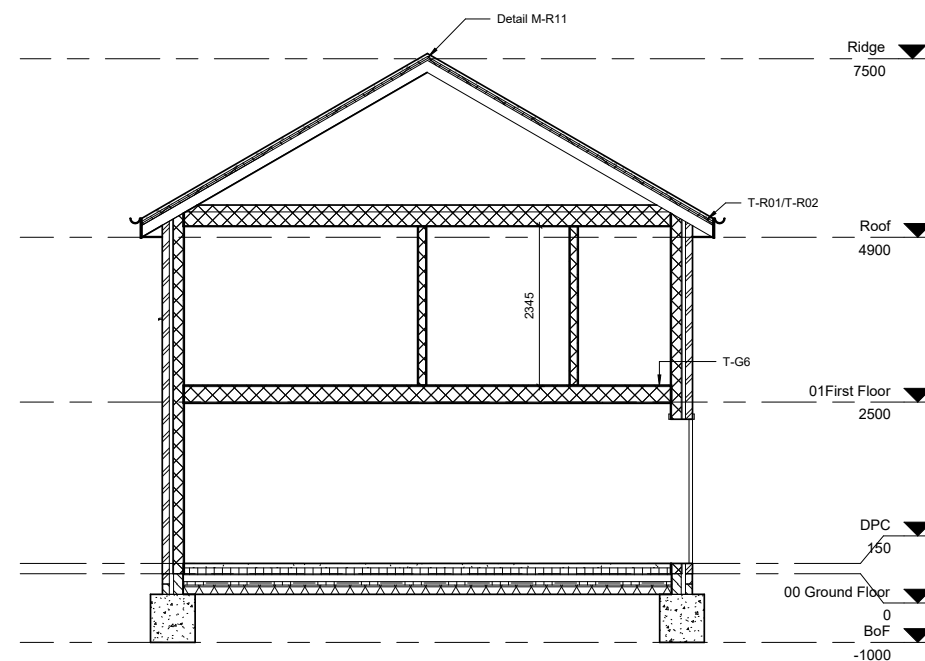


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PROJECT		Build Aviator First Floor, Ross House Bury St Edmunds IP23 7AR	
TITLE		Existing & Proposed Elevations	
CLIENT		Build Aviator	
SCALE	1 : 50	DATE	26/01/2022
DESIGNER		Elliot Ball	
PROJECT NUMBER		1234-1234-1234	
DRAWING NUMBER		03	



1 Section A-A
1 : 50



2 Section B-B
1 : 50



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Rev	Description	Date



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PROJECT		Build Aviator	
		First Floor, Ross House Bury St Edmunds IP23 7AR	
TITLE		Sections	
CLIENT		Build Aviator	
SCALE	1 : 50	DATE	26/01/2022
DESIGNER	Elliott Ball		
PROJECT NUMBER	1234-1234-1234		
DRAWING NUMBER	04		



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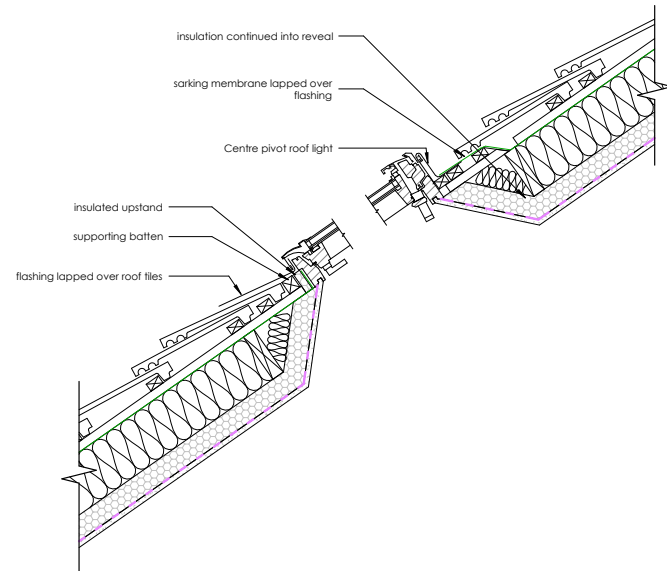
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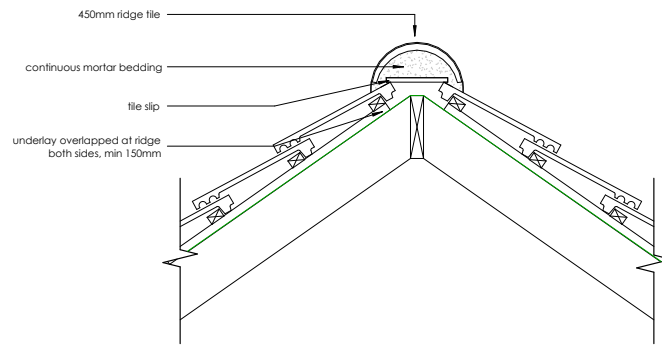
PROJECT		Build Aviator	
		First Floor, Ross House Bury St Edmunds IP23 7AR	
TITLE		Contruction Details 1	
CLIENT		Build Aviator	
SCALE	1 : 10	DATE	26/01/2022
DESIGNER		Elliot Ball	
PROJECT NUMBER		1234-1234-1234	
DRAWING NUMBER		05	

27/01/2022 09:41:25



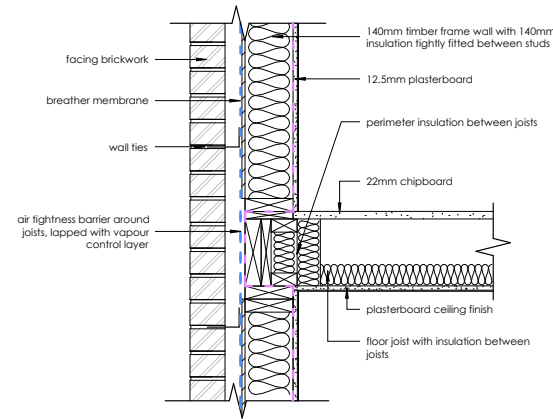
M-R9 ROOF LIGHT DETAIL -
Insulation between and under rafters

Any ventilation requirements according to manufacturers instructions



M-R11 RIDGE DETAIL - bedded ridge, unvented

Any ventilation requirements according to manufacturers instructions



T-G6 TIMBER FRAME WALL
TIMBER INTERMEDIATE FLOOR
joists perpendicular to the wall

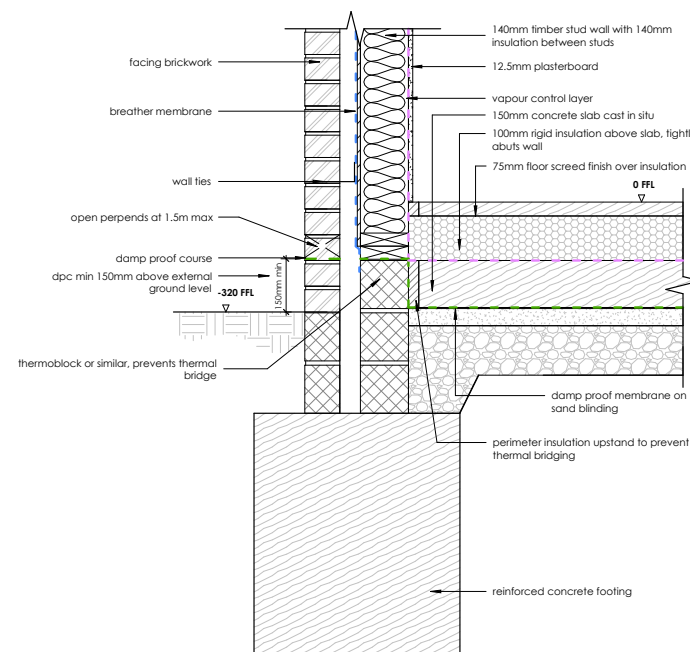
All timber frame construction should be designed by an engineer - all details subject to specific design.

Cavity barrier required in compartment floor arrangement (two separating flats).

1 Rooflight Detail
1 : 10

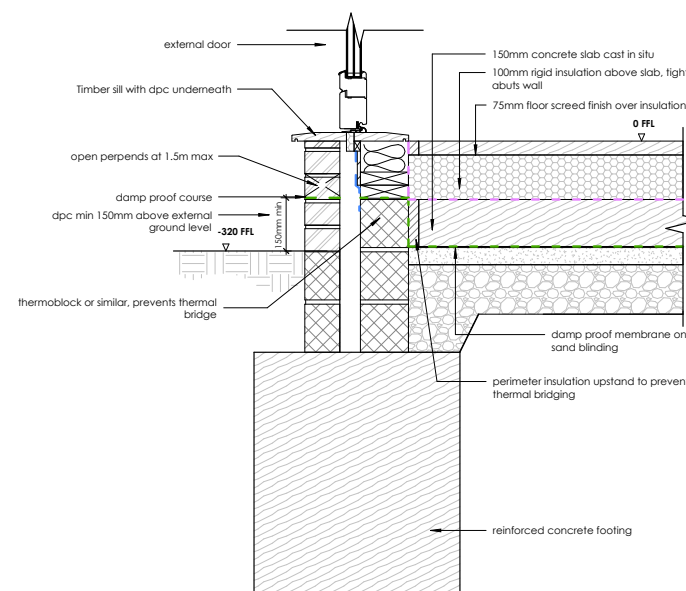
2 Ridge Detail
1 : 10

3 Intermediate Floor
1 : 10



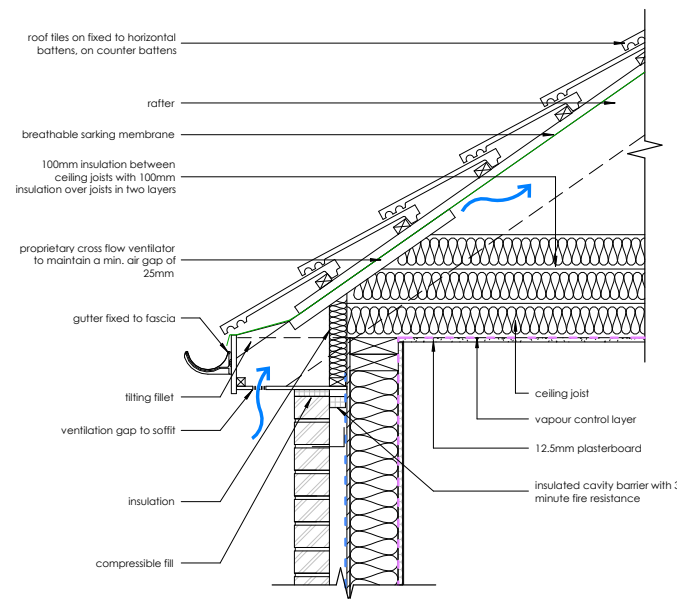
T-G2 TIMBER FRAME WALL,
GROUND BEARING CONCRETE SLAB,
INSULATION ABOVE SLAB

All timber frame construction should be designed by an engineer - all details subject to specific design.
Perimeter strip of insulation abuts concrete slab and blockwork wall.
Floor screed over insulation, minimum 65mm thick, or proprietary screed min 35mm thick. Perimeter insulation to screed.
Alternative floor finish over insulation of chipboard/OSB/ply, must include a vapour control layer between the board and the insulation.
Damp proof membrane can also be positioned over slab.



T-GD TIMBER FRAME WALL,
GROUND BEARING CONCRETE SLAB,
INSULATION ABOVE SLAB

All timber frame construction should be designed by an engineer - all details subject to specific design.
Perimeter strip of insulation abuts concrete slab and blockwork wall.
Floor screed over insulation, minimum 65mm thick, or proprietary screed min 35mm thick. Perimeter insulation to screed.
Alternative floor finish over insulation of chipboard/OSB/ply, must include a vapour control layer between the board and the insulation.
Damp proof membrane can also be positioned over slab.



T-R1 TIMBER FRAME WALL
EAVES DETAIL - VENTILATED ROOF SPACE (cold roof)
Insulation between and over ceiling joists

All timber frame construction should be designed by an engineer - all details subject to specific design.

4 Foundation/Slab Detail
1 : 10

5 Door Cill Detail
1 : 10

6 Eaves Detail
1 : 10



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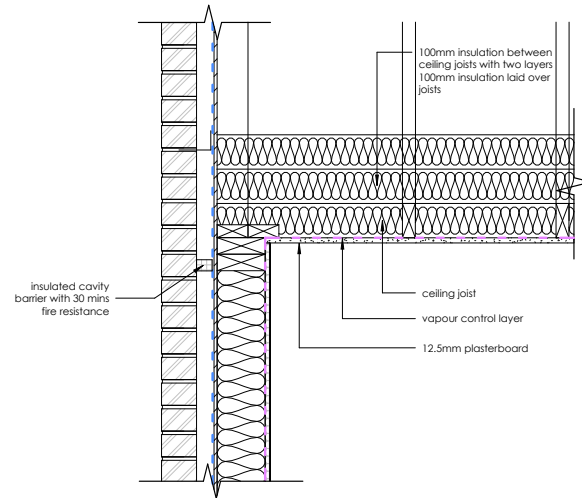
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Rev	Description	Date



Build Aviator

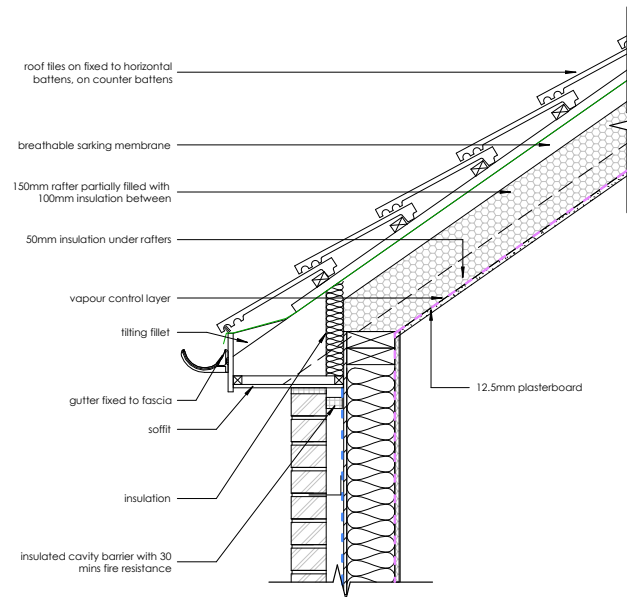
PROJECT		Build Aviator	
		First Floor, Ross House Bury St Edmunds IP23 7AR	
TITLE		Contruction Details 2	
CLIENT		Build Aviator	
SCALE	1 : 10	DATE	26/01/2022
DESIGNER		Elliot Ball	
PROJECT NUMBER		1234-1234-1234	
DRAWING NUMBER		06	



T-R2 TIMBER FRAME WALL
GABLE DETAIL - VENTILATED ROOF SPACE (cold roof)
Insulation between and over ceiling joists

All timber frame construction should be designed by an engineer - all details subject to specific design.

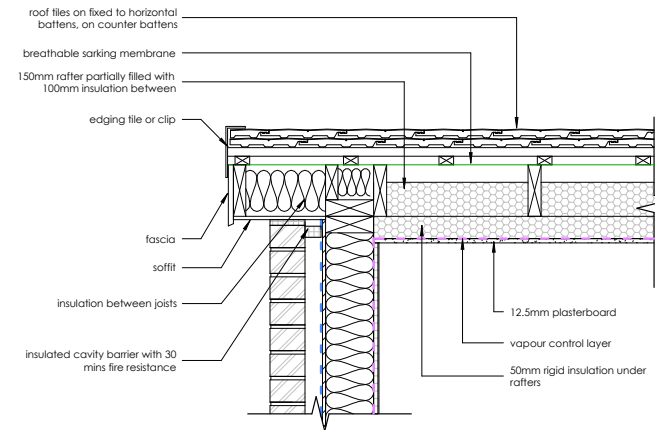
1 Gable Detail
1 : 10



T-R3 TIMBER FRAME WALL
EAVES DETAIL - UNVENTILATED
Insulation between and under rafters

All timber frame construction should be designed by an engineer - all details subject to specific design.
Any ventilation requirements according to manufacturers instructions

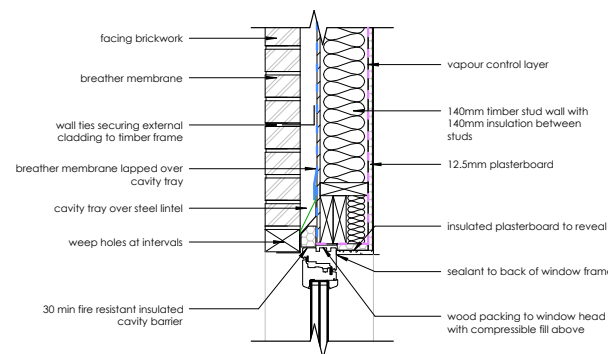
2 Eaves Wall Detail
1 : 10



T-R4 TIMBER FRAME WALL
GABLE DETAIL - UNVENTILATED
Insulation between and under rafters

All timber frame construction should be designed by an engineer - all details subject to specific design.

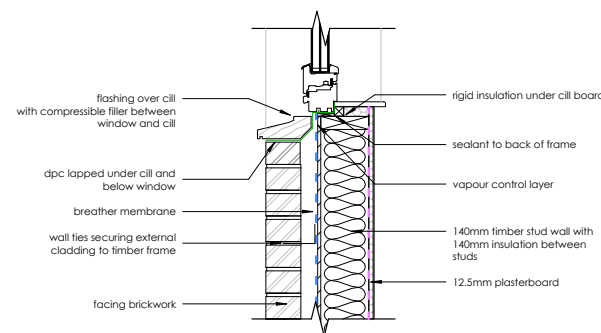
3 Gable Wall Detail
1 : 10



T-W7 TIMBER FRAME WALL
Window head (section)
Brick cladding

All timber frame construction should be designed by an engineer - all details subject to specific design.

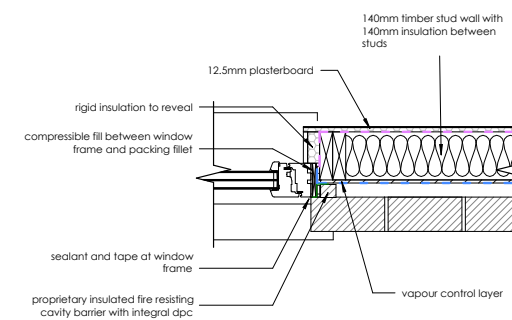
4 Window Head Detail
1 : 10



T-W8 TIMBER FRAME WALL
Window cill (section)
Brick cladding

All timber frame construction should be designed by an engineer - all details subject to specific design.

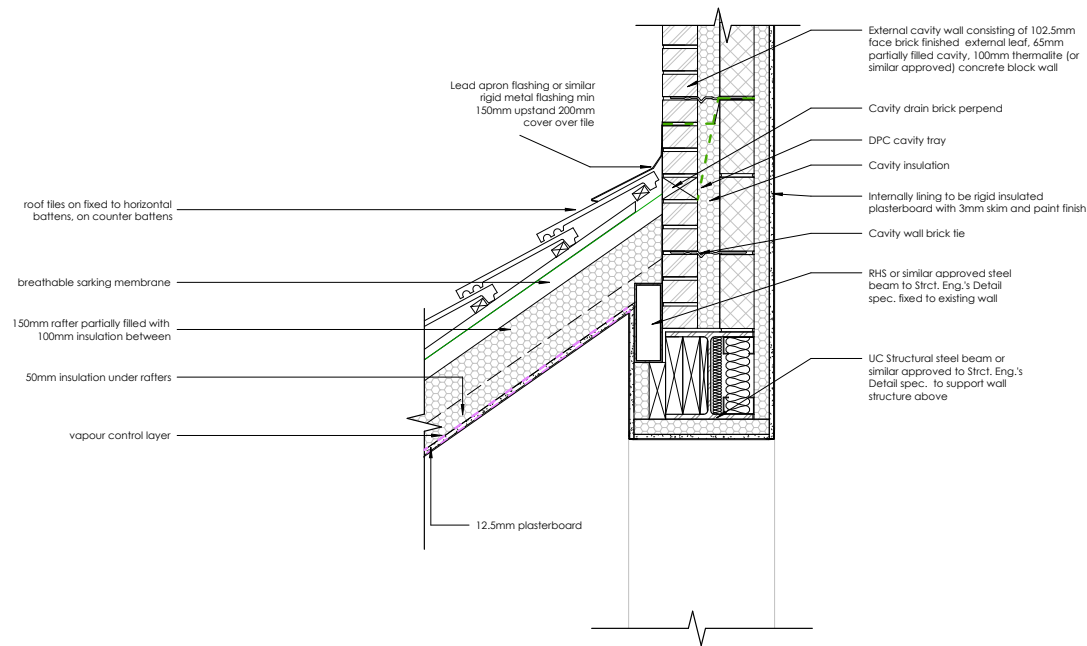
5 Window Cill Detail
1 : 10



T-W9 TIMBER FRAME WALL
Window jamb (plan)
Brick cladding

All timber frame construction should be designed by an engineer - all details subject to specific design.

6 Window/Door Jamb detail
1 : 10



DL06 GLAZED MONOPITCHED LEAN-TO ROOF
DETAIL ABUTTING TRADITIONAL CAVITY
BRICK AND BLOCK WALL.
CROSS SECTION A-A

1 Abutment Detail
1 : 10



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Build Aviator

PROJECT		Build Aviator First Floor, Ross House Bury St Edmunds IP23 7AR	
TITLE		Contruction Details 3	
CLIENT		Build Aviator	
SCALE	1 : 10	DATE	26/01/2022
DESIGNER		Elliot Ball	
PROJECT NUMBER		1234-1234-1234	
DRAWING NUMBER		07	

U Value Calculation							
Software:		Stroma U-value Calculator - Version 0.92					
Date Printed:		25/01/2022 14:26					
Construction Type:		Wall - External Wall					
Calculation Method:		BS EN ISO 6946					
Wall Construction							
No	Description	Main Element			Bridging Element		
		Thickness	λ	R-value	λ	R-value	Fraction
-	Internal Surface Resistance	-	-	0.13	-	-	-
1	Plaster Skim	3	0.18	0.016667	-	-	-
2	Plasterboard	12.5	0.21	0.059524	-	-	-
3	Timber Frame Batt 32 (140 mm)	140	0.032	4.375	0.13	1.077	0.125
4	OSB	15	0.13	0.115385	-	-	-
5	Ventilated Cavity	50	-	0.18	-	-	-
6	Brickwork Outer Leaf - BRE (102.5 mm)	102.5	0.77	0.133117	0.94	0.109	0.1712
-	External Surface Resistance	-	-	0.04	-	-	-
		Σ=323mm		Σ=5.049692			
Resistances							
Lower Limit		Upper Limit			Average		
3.834		4.082			3.958 m²K/W		
Wall U-value Corrections							
No Correction Values							
Wall U-value							
U-value					0.253		
U-value rounded					0.25 W/m²K		

U Value Calculation							
Software:		Stroma U-value Calculator - Version 0.92					
Date Printed:		25/01/2022 14:26					
Construction Type:		Roof - Sloping Ceiling					
Calculation Method:		BS EN ISO 6946					
Roof Construction							
No	Description	Main Element			Bridging Element		
		Thickness	λ	R-value	λ	R-value	Fraction
-	Internal Surface Resistance	-	-	0.1	-	-	-
1	Plaster Skim	3	0.18	0.016667	-	-	-
2	Plasterboard	12.5	0.21	0.059524	-	-	-
3	Eurothane GP (50 mm)	50	0.022	2.272727	-	-	-
4	Eurothane GP (100 mm)	100	0.022	4.545455	0.13	0.769	0.125
5	Unventilated Cavity	50	-	0.34	-	-	-
-	External Surface Resistance	-	-	0.04	-	-	-
		Σ=215.5mm		Σ=7.374372			
Resistances							
Lower Limit		Upper Limit			Average		
5.646		6.519			6.082 m²K/W		
Roof U-value Corrections							
No Correction Values							
Roof U-value							
U-value					0.164		
U-value rounded					0.16 W/m²K		

U Value Calculation							
Software:		Stroma U-value Calculator - Version 0.92					
Date Printed:		25/01/2022 14:26					
Construction Type:		Floor - Ground Floor					
Calculation Method:		BS EN ISO 6946 / BS EN ISO 13370					
Floor Construction							
No	Description	Main Element			Bridging Element		
		Thickness	λ	R-value	λ	R-value	Fraction
-	Internal Surface Resistance	-	-	0.17	-	-	-
1	Screed	75	0.41	0.182927	-	-	-
2	Eurothane GP (100 mm)	100	0.022	4.545455	-	-	-
3	Reinforced Concrete Slab	150	2.5	0.06	-	-	-
		Σ=325mm		Σ=4.958381			
Resistances							
Lower Limit		Upper Limit			Average		
4.958		4.958			4.958 m²K/W		
Soil Properties							
Perimeter					6m		
Area					10m²		
Wall Thickness					300mm		
Ground Type - Default λ=					2W/mK		
Floor U-value Corrections							
No Correction Values							
Floor U-value							
U-value					0.169		
U-value rounded					0.17 W/m²K		

U Value Calculation							
Software:		Stroma U-value Calculator - Version 0.92					
Date Printed:		25/01/2022 14:26					
Construction Type:		Roof - Horizontal Ceiling					
Calculation Method:		BS EN ISO 6946					
Roof Construction							
No	Description	Main Element			Bridging Element		
		Thickness	λ	R-value	λ	R-value	Fraction
-	Internal Surface Resistance	-	-	0.1	-	-	-
1	Plaster Skim	3	0.18	0.016667	-	-	-
2	Plasterboard	12.5	0.21	0.059524	-	-	-
3	Spacesaver (150 mm)	150	0.044	3.409091	0.13	1.154	0.125
4	Spacesaver (150 mm)	150	0.044	3.409091	-	-	-
-	External Surface Resistance	-	-	0.04	-	-	-
		Σ=315.5mm		Σ=7.034372			
Resistances							
Lower Limit		Upper Limit			Average		
6.365		6.643			6.504 m²K/W		
Roof U-value Corrections							
No Correction Values							
Roof U-value							
U-value					0.154		
U-value rounded					0.15 W/m²K		

Version 1.3 - used for works which must comply with the 2010 version of L1b	
Project Name	20 Roseberry Avenue
Project Reference	2118-4512-4915
Assessor	Michael Copley
DATA - INPUT INTO CALCULATIONS.	
EXTENSION GROUND FLOOR AREA	44.00 m²
EXTENSION NET WALL AREA	89.14 m²
NET ROOF AREA (A) (insulation at rafter level or flat)	61.23 m²
NET ROOF AREA (B) (insulation at ceiling level)	0.00 m²
WINDOWS	10.76 m²
EXTERNAL DOORS	8.10 m²
EXTENSION ROOFLIGHT AREA	2.77 m²
WINDOW/DOORS COVERED BY EXT	5.67 m²
TOTAL FLOOR AREA	66.00 m²
1. AD LIB CHECK.	
Area of doors windows and rooflights (in m²)	
Actual	21.63
Permitted	22.17
Result	COMPLIES
2. AREA -WEIGHTED U-VALUE CALCULATION.	
NOTIONAL BUILDING	
FLOOR	44.00 m2 x 0.22 = 9.68 W
WALLS	85.83 m2 x 0.28 = 24.03 W
ROOF	64.00 m2 x 0.18 = 11.52 W
WINDOWS/DOORS	22.17 m2 x 1.80 = 39.91 W
TOTAL	216.00 m2 85.14 W
Allowable 0.3942	
ACTUAL BUILDING	
FLOOR	44.00 m2 x 0.17 = 7.48 W
WALLS	89.14 m2 x 0.25 = 22.29 W
ROOF (A)	61.23 m2 x 0.16 = 9.80 W
ROOFLIGHTS	2.77 m2 x 1.40 = 3.88 W
ROOF (B)	0.00 m2 x 0.16 = 0.00 W
ROOFLIGHTS	0.00 m2 x 1.40 = 0.00 W
WINDOWS	10.76 m2 x 1.40 = 15.06 W
DOORS	8.10 m2 x 1.80 = 14.58 W
TOTAL	216.00 m2 73.08 W
Actual	0.3384
Result	COMPLIES
The glazing to the extension complies with L1b.	



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Rev	Description	Date



Build Aviator

PROJECT		Build Aviator First Floor, Ross House Bury St Edmunds IP23 7AR	
TITLE		SAP	
CLIENT		Build Aviator	
SCALE	DATE	26/01/2022	
DESIGNER		Elliot Ball	
PROJECT NUMBER		1234-1234-1234	
DRAWING NUMBER		08	

Window Schedule			
Count	Width	Height	Family and Type
BA_Win_upvc_C7: 600x1050			
1	600	1050	BA_Win_upvc_C7: 600x1050
1	600	1050	BA_Win_upvc_C7: 600x1050
BA_Win_upvc_C10: 1500x1050			
1	1500	1050	BA_Win_upvc_C10: 1500x1050
1	1500	1050	BA_Win_upvc_C10: 1500x1050
BA_Win_upvc_C12: 1800x1050			
1	1800	1050	BA_Win_upvc_C12: 1800x1050
BA_Win_upvc_C16: 1800x1050			
1	1800	1050	BA_Win_upvc_C16: 1800x1050
1	1800	1050	BA_Win_upvc_C16: 1800x1050
Roof-Windows_VELUX_GGL: Default			
1	940	980	Roof-Windows_VELUX_GGL: Default
1	940	980	Roof-Windows_VELUX_GGL: Default
1	940	980	Roof-Windows_VELUX_GGL: Default

Door Schedule		
Height	Width	Family and Type
AD_Basic Door: 90 x 210cm		
2100	900	AD_Basic Door: 90 x 210cm
BA_Door_upvc_F1-OpenOut: 1980x2100mm		
2100	1810	BA_Door_upvc_F1-OpenOut: 1980x2100mm
Door-Opening: 910 x 2100 Opening		
0	0	Door-Opening: 910 x 2100 Opening
Door-Opening: 1800 x 2100 opening		
0	0	Door-Opening: 1800 x 2100 opening
Doors_ExtSgl_w-Side Panel: EB 1150x2110mm		
2110	1500	Doors_ExtSgl_w-Side Panel: EB 1150x2110mm
Doors_IntDbL_1: EB WIW Doors 1000mm x 2100		
2100	1000	Doors_IntDbL_1: EB WIW Doors 1000mm x 2100
Doors_IntSgl_1: 910x2110mm		
2110	910	Doors_IntSgl_1: 910x2110mm
2110	910	Doors_IntSgl_1: 910x2110mm
2110	910	Doors_IntSgl_1: 910x2110mm
2110	910	Doors_IntSgl_1: 910x2110mm
2110	910	Doors_IntSgl_1: 910x2110mm
Doors_IntSgl_1: 1010x2110mm		
2110	1010	Doors_IntSgl_1: 1010x2110mm

Room Schedule								
Number	Name	Level	Department	Area	Percentage of area	Finish		
						Wall Finish	Floor Finish	Ceiling Finish
01 First Floor								
11	Bathroom	01 First Floor		3.30 m²	19.42%			
12	Walk in Wardrobe	01 First Floor		2.30 m²	13.52%			
13	Bedroom	01 First Floor		10.28 m²	60.55%			
14	Hall	01 First Floor		1.11 m²	6.51%			
01 First Floor: 4				16.98 m²	100.00%			
00 Ground Floor								
1	Kitchen	00 Ground Floor		26.25 m²	32.45%			
6	Lobby/Hall	00 Ground Floor		4.99 m²	6.16%			
3	Utility	00 Ground Floor		3.06 m²	3.78%			
4	Shower room	00 Ground Floor		2.59 m²	3.20%			
5	Living room	00 Ground Floor		18.16 m²	22.45%			
8	Storage room	00 Ground Floor		18.83 m²	23.28%			
2	Larder	00 Ground Floor		4.88 m²	6.03%			
7	Porch	00 Ground Floor		2.15 m²	2.66%			
00 Ground Floor: 8				80.90 m²	100.00%			
Not Placed								
2	Room	Not Placed		Not Placed	0.00%			
3	Living Room	Not Placed		Not Placed	0.00%			
5	Utility Room	Not Placed		Not Placed	0.00%			
6	Shower Room	Not Placed		Not Placed	0.00%			
7	Storage Room	Not Placed		Not Placed	0.00%			
8	Dining room	Not Placed		Not Placed	0.00%			
9	WC	Not Placed		Not Placed	0.00%			
10	Porch	Not Placed		Not Placed	0.00%			
Not Placed: 8				0.00 m²	0.00%			
Total area: 20				97.88 m²				



BuildAviator
By Design

1st Floor
Ross House
Kempson Way
Bury St Edmunds
IP32 7AR

Tel: 01359 256311
Email: plandrawing@buildaviator.co.uk

www.buildaviator.co.uk

Rev	Description	Date



Build Aviator

PROJECT	Build Aviator First Floor, Ross House Bury St Edmunds IP23 7AR	
TITLE	Schedules	
CLIENT	Build Aviator	
SCALE	DATE	26/01/2022
DESIGNER	Elliot Ball	
PROJECT NUMBER	1234-1234-1234	
DRAWING NUMBER	09	



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Rev	Description	Date



Build Aviator

Build Aviator

First Floor,
Ross House
Bury St Edmunds
IP23 7AR

Title

Site Plan

Client

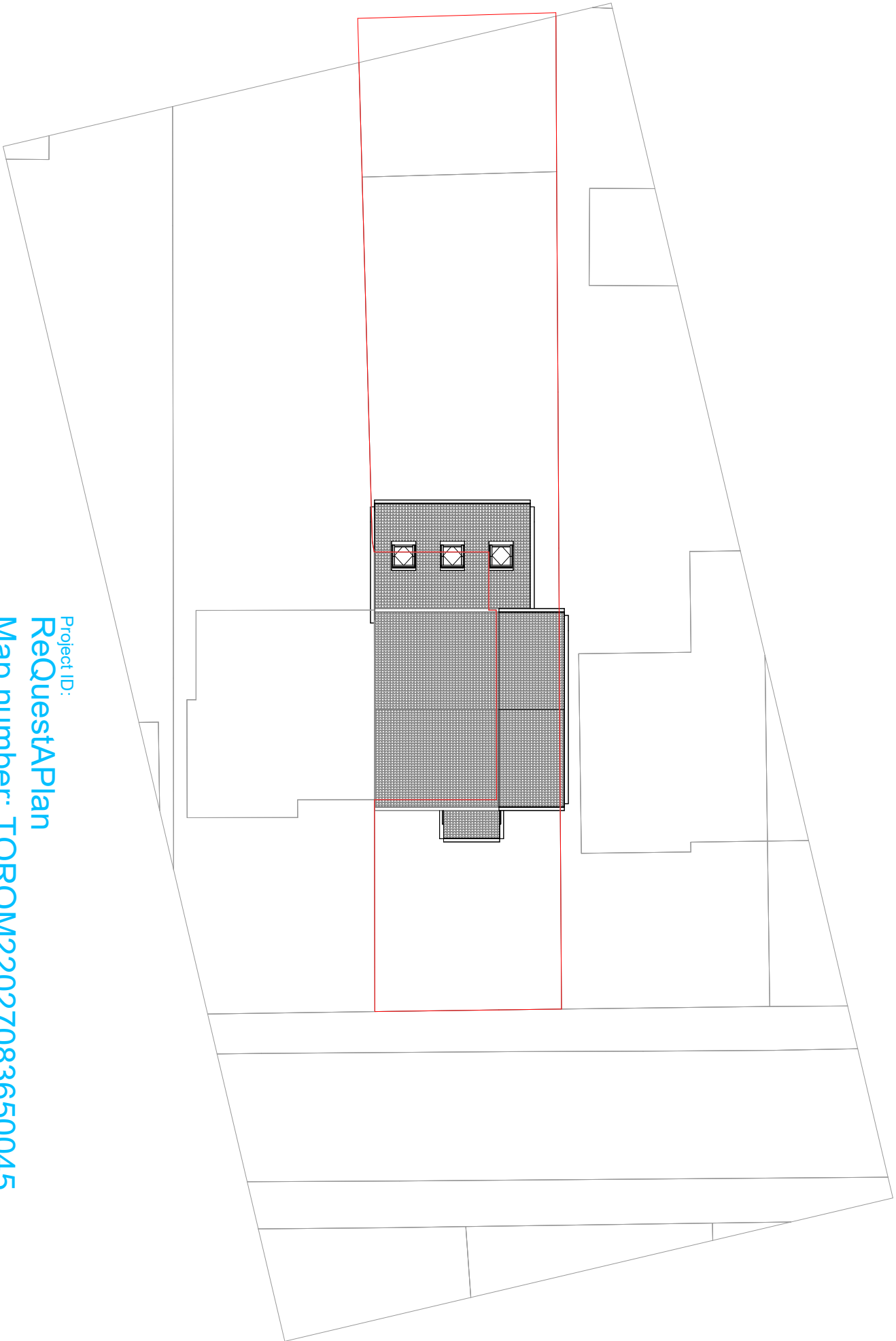
Build Aviator

Scale	Date
1 : 100	26/01/2022

Designer
Elliott Ball

Project Number
1234-1234-1234

Drawing Number
10



Project ID:
RequestAPlan
Map number: TQRQM22027083650045

Title: Dean Burkill
Map Produced for: Dean Burkill
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Date of Purchase: 27-01-2022
1 Years subscription from 27-01-2022 for 1 workstation.

1 Site
1 : 100