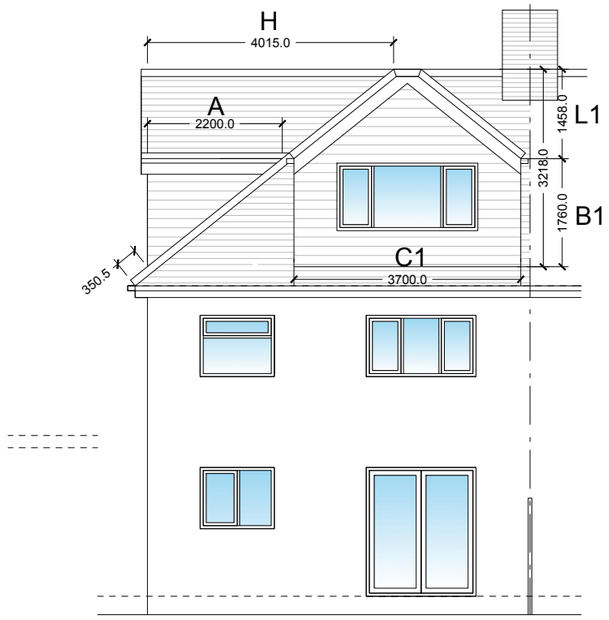
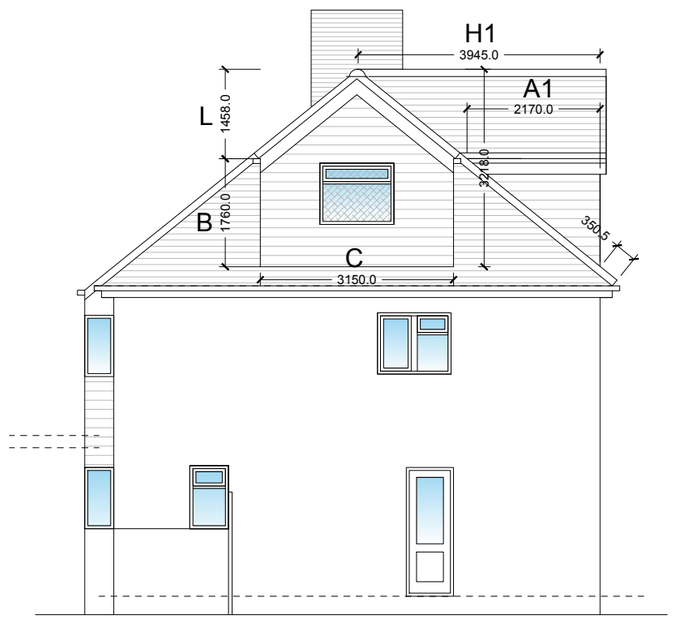


Rear (West) Elevation as proposed
Loft conversion



Side (North) Elevation as proposed
Loft conversion

Loft Conversion Volume Calculation for
(15 Bushby Close, Lancing, BN15 9JW)

1. Calculation of external volume of the proposed side dormer in the loft conversion

A: 2.20m
B: 1.76m
C: 3.15m
L: 1.458m
H: 4.015m

External volume of side dormer: $\frac{(2.20\text{m} \times 1.76\text{m} \times 3.15\text{m})}{2} + \frac{(3.15\text{m} \times 1.458\text{m} \times 4.015\text{m})}{2}$

6.10 m3 + 9.22 m3 = 15.32 m3

2.Calculation of external volume of the proposed rear dormer in the loft conversion

A1: 2.17m
B1: 1.76m
C1: 3.70m
L1: 1.458m
H1: 3.945m

External volume of side dormer: $\frac{(2.17\text{m} \times 1.76\text{m} \times 3.70\text{m})}{2} + \frac{(3.70\text{m} \times 1.458\text{m} \times 3.945\text{m})}{2}$

7.07 m3 + 10.64 m3 = 17.71 m3

Side and rear dormers are to be completed within permitted development allowance

Total external volume of side and rear dormers

15.32 + 17.71m3 = 33.03 m3 < 50m3

NOTE: the actual volume of the dormers is less than 33.03 m3, as the calculation includes part of the dormer roofs inserted into the main roof.

Therefore, the roof extension is within the permitted development allowance.

REVISIONS:
REV: DATE: BY: RVW:

Scale 1:100
0 1 5m 10m

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PROJECT
15 Bushby Close
Lancing
BN15 9JW

TITLE
Loft Conversion
Dormer volume calculations

STATUS
Planning

DATE
October 2021

SCALE @ A3
1:100

DRAWN BY
Edward

REVIEWED BY

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