



5 Birch drive, Maple cross,  
Rickmansworth, WD3 9UL

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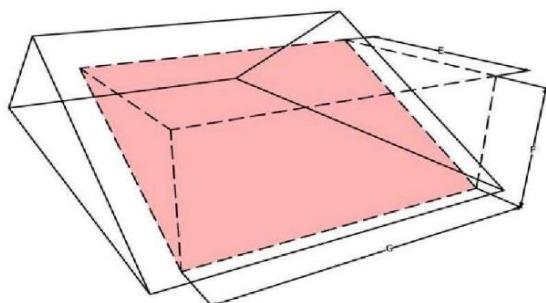
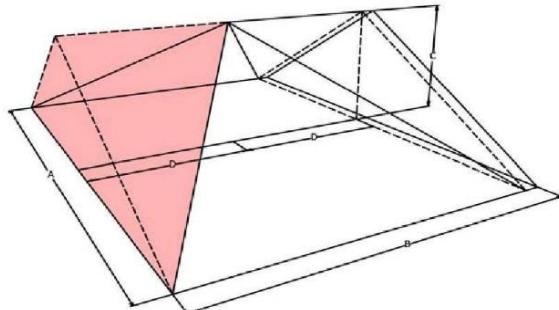
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**Site address:** 51 St Marys Road, Harefield

**Date:** 10.06.2022

### Calculation for hip to gable loft conversion

	(m)
A Depth of main roof	8.58
B Width of main roof	6.36
C Height of main roof	3.48
D Ridge to eaves in plan	4.29
E Projection of dormer	3.44
F Height of dormer	2.56
G Width of dormer	5.77



Volume of triangular prism

Area of triangle x length

$$((A \cdot C) / 2) \cdot (D \cdot 2)$$

**127.97 m<sup>3</sup>**

Volume of the pyramid

Base area x 1/3height

$$(A \cdot (D \cdot 2)) \cdot (1/3 \cdot C)$$

**85.31 m<sup>3</sup>**

Volume of the additional segment

$$((\text{Prism} - \text{Pyramid}) / 2)$$

**21.33 m<sup>3</sup>**

Volume of additional dormer

Area of triangle x length of dormer

$$((E \cdot F) / 2) \cdot G$$

**25.38 m<sup>3</sup>**

Total volume of development

**46.71 m<sup>3</sup>**