



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

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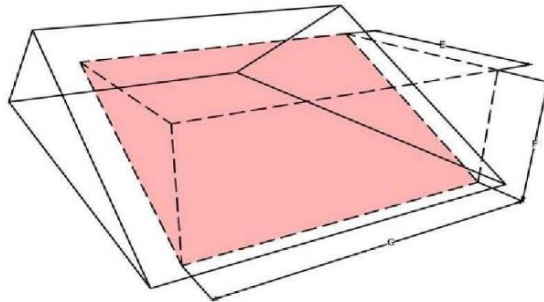
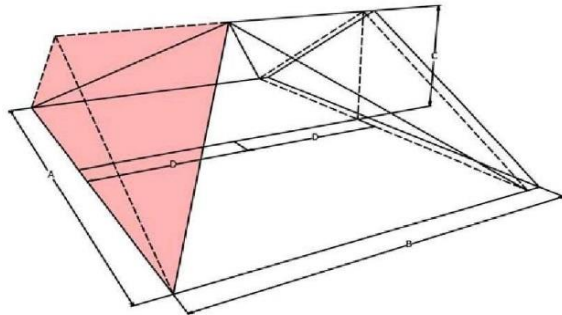
Email: info@h-jag.com

Site address: 1 Gade Bank, Croxley Green, WD3 3GD

Date: 21.12.2023

Calculation for hip to gable loft conversion

	(m)
A Depth of main roof	7.45
B Width of main roof	6.28
C Height of main roof	2.40
D Ridge to eaves in plan	3.81
E Projection of dormer	3.61
F Height of dormer	2.06
G Width of dormer	5.87



Volume of triangular prism

Area of triangle x length

$$((A * C) / 2) * (D * 2)$$

68.12 m³

Volume of the pyramid

Base area x 1/3 height

$$(A * (D * 2) * (1/3 \text{ of } C))$$

45.42 m³

Volume of the additional segment

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

11.35 m³

Volume of additional dormer

Area of triangle x length of dormer

$$((E * F) / 2) * G$$

21.82 m³

Total volume of development

33.17 m³

Rear GF Extension

3m Depth, Eaves 2.928m

Front Porch

*1.24m x 2.4m = 2.976m (Under 3sq/m)
Overall height not higher than 3m*