



Calculation for Hip to Gable Loft Conversion

Site Address

146 GROSVENOR
CRESCENT,
HILLINGDON, UB10 9EY

Project No.

1961

Date

01 May 2023

	(m)
A Depth of main roof	8.3
B Width of main roof	6.6
C Height of main roof	3.07
D Ridge to eaves in plan	4.15
E Projection of dormer	3.76
F Height of dormer	2.53
G Width of dormer	6.3

Volume of triangular prism

Area of triangle x Length

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

105.75 m³

Volume of the pyramid

Base area x $\frac{1}{3}$ Height

$(A \times (D \times 2)) \times \frac{1}{3} C$

70.50 m³

Volume of the additional segment

Prism x Pyramid / 2

17.62 m³

Volume of additional dormer
area of the triangle x length of dormer

$(E \times F) 2 \times G$

29.97 m³

Total volume of development

47.59 m³

