



Calculation for Hip to Gable Loft Conversion

Site Address

80B Halford Road,
Ickenham, Uxbridge,
UB10 8QA

Project No.

1817

Date

02 October 2020

	(m)
A Depth of main roof	10.69
B Width of main roof	7.97
C Height of main roof	3
D Ridge to eaves in plan	5.345
E Projection of dormer	3.565
F Height of dormer	2
G Width of dormer	6

Volume of triangular prism

Area of triangle x Length

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

171.41 m³

Volume of the pyramid

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

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

114.28 m³

Volume of the additional segment

Prism x Pyramid / 2

28.57 m³

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

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

21.39 m³

Total volume of development

49.96 m³

