

Roof Volume Calculation

(Hip to gable with rear dormer)

15 Priest Hill, RG4 7RZ

A	Depth of the main roof	8.160
B	Width of the main roof	7.240
C	Height of the main roof	2.970
D	Ridge to eaves in plan	4.270
E	Projection of the rear dormer	3.540
F	Height of the rear dormer	2.430
G	Width of the rear dormer	7.060

Volume of the triangular prism x area of the triangle x its length:
(A x C/2 x (D x 2)) 103.484 cubic metres

Volume of the pyramid base area x 1/3 height: (A x (D x 2) x 1/3
C) 68.990 cubic metres

Volume of the additional segment Hip to Gable: Prism - Pyramid /
2 17.247 cubic metres

Volume of the additional rear dormer area of the triangle x its
length: (E x F / 2 x G) 30.366 cubic metres

TOTAL Volume of development 47.613 cubic metres

TOTAL Volume of development	47.613 cubic metres
------------------------------------	----------------------------

Balance of development allowed in the loft 2.387 cubic metres

Based on an allowed volume of 50.000 cubic metres