

47 St. Mary's Road

Volume of dormer window

	Length	1/2 height	Area
Area of end x length			
Area of end =	3.596	1.399	5.031 sq.m
Length of roof =	5.99 m		
Volume of dormer window =	30.135 cu.m		

Volume of Hip to gable change

Volume = Volume of gable - 1/2 a pyramid

Equation for pyramid = area of base x 1/3 height

Volume of gable roof = Area of triangular end x length of roof

Area of end = Length 1/2 height Area

8.190 1.607 13.157 sq.m
6.102 m

Length of roof = 80.285 cu.m

Volume of hipped roof = part of gable roof + 1/2 pyramid

Length of gable part of roof = 2.125 m

Volume of gable part = 27.959 cu.m

Remaining length of roof = 3.977

Volume of half pyramid = 34.884 cu.m

Total volume of hipped roof = 62.843 cu.m

Volume of hipped to gable conversion = 17.442 cu.m

Total volume of hip to gable conversion and dormer 47.577 cu.m