

## 5 Clayton Way

### Volume of dormer window

	Length	1/2 height	Area
Area of end x length			
Area of end =	3.317	1.250	4.146 sq.m
Length of roof =	5.062 m		
Volume of dormer window =	20.988 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

6.915 1.303 9.007 sq.m  
5.162 m

Length of roof = 46.493 cu.m

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

Length of gable part of roof = 1.705 m

Volume of gable part = 15.357 cu.m

Remaining length of roof = 3.457

Volume of half pyramid = 20.758 cu.m

Total volume of hipped roof = 36.114 cu.m

Volume of hipped to gable conversion = 10.379 cu.m

Total volume of hip to gable conversion and dormer 31.367 cu.m