

## 16 Lawrence Drive

### Volume of dormer window

Area of end x length	Length	1/2 height	Area
Area of end =	3.845	1.327	5.100 sq.m
Length of roof =	5.158 m		
Volume of dormer window =	26.308 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

7.731 1.361 10.522 sq.m

Length of roof = 5.858 m

Volume of gable roof = 61.637 cu.m

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

Length of gable part of roof = 2.013 m

Volume of gable part = 21.181 cu.m

Remaining length of roof = 3.845

Volume of half pyramid = 26.971 cu.m

Total volume of hipped roof = 48.152 cu.m

Volume of hipped to gable conversion = 13.486 cu.m

Total volume of hip to gable conversion and dormer 39.793 cu.m