

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	<u>39.793</u> cu.m