

5 Clayton Way

Volume of dormer window

Area of end x length	Length	1/2 height	Area
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
Length of roof =	5.162	m	
Volume of gable 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	<u>31.367</u>	cu.m	