74 St. Georges Drive - Revision A

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
	5.152	0.971	5.000 sq.m
Length of roof =	6.191 m		
Volume of gable roof =	30.955 cu.m		
Volume of hipped roof =	part of gable roof + 1/2 pyramid		
Length of gable part of roof =	2.324 m		
Volume of gable part =	11.620 cu.m		
Remaining length of roof =	1.934		
Volume of half pyramid =	6.445 cu.m		
Total volume of hipped roof =	18.065 cu.m		
Volume of hipped to gable conversion =	12.890 cu.m		

Volume of dormer window - 1

Area of end x length	Length	1/2 height	Area
Area of end =	2.313	0.971	2.245 sq.m
Length of roof =	6.191 m		
Volume of dormer window =	13.897 cu.m		

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Volume of dormer window - 2

Area of end x length	Length	1/2 height	Area
Area of end =	2.313	0.971	2.246 sq.m
Length of roof =	1.28 m		
Volume of dormer window =	2.875 cu.m		

Volume of dormer window - 3

Area of end x length	Length	1/2 height	Area
Area of end =	1.157	0.486	0.562 sq.m
Length of roof =	4.91 m		
Volume of dormer window =	2.758 cu.m		

Total volume of hip to gable conversion and dormer   32.420 cu.m