

74 St. Georges Drive

Volume of Hip to gable change

Volume = Volume of gable -(1/2 a pyramid)*2

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

7.868 1.651 12.986 sq.m

Length of roof =

7.965 m

Volume of gable roof =

103.435 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 =

30.180 cu.m

Remaining length of roof =

2.821

Volume of half pyramid =

48.837 cu.m

Total volume of hipped roof =

79.016 cu.m

Volume of hipped to gable conversion =

24.418 cu.m

Volume of dormer window - 1

Area of end x length

Length 1/2 height Area

Area of end =

2.314 0.971 2.246 sq.m

Length of roof =

8.947 m

Volume of dormer window =

20.093 cu.m

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Volume of dormer window - 2

Area of end x length	Length	1/2 height	Area
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Area of end =	1.157	0.486	0.562 sq.m
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Length of roof =	6.383 m
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Volume of dormer window =	3.585 cu.m
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Total volume of hip to gable conversion and dormer	<u>48.096</u> cu.m
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