

Calculations for Roof Volume

Proposed Dormer enlargement

Volume of the rear dormer - Area of the triangle x its length

Hip to gable with rear dormer

A - Depth of the main roof - 8.506 mm

B - Height of main roof - 3.739 mm

C - Ridge to eaves in plan - 3.891 mm

D - Projection of rear dormer - 3.332 mm

E - Height of rear dormer - 2.617 mm

F - Width of dormer - 6.110 mm

Formula - $V = D \times E/2 \times F$

$$V = 3.332 \times 1/2 \times 2.617 \times 6.110 =$$

26.62 CUBIC METRES

Hip to gable enlargement -

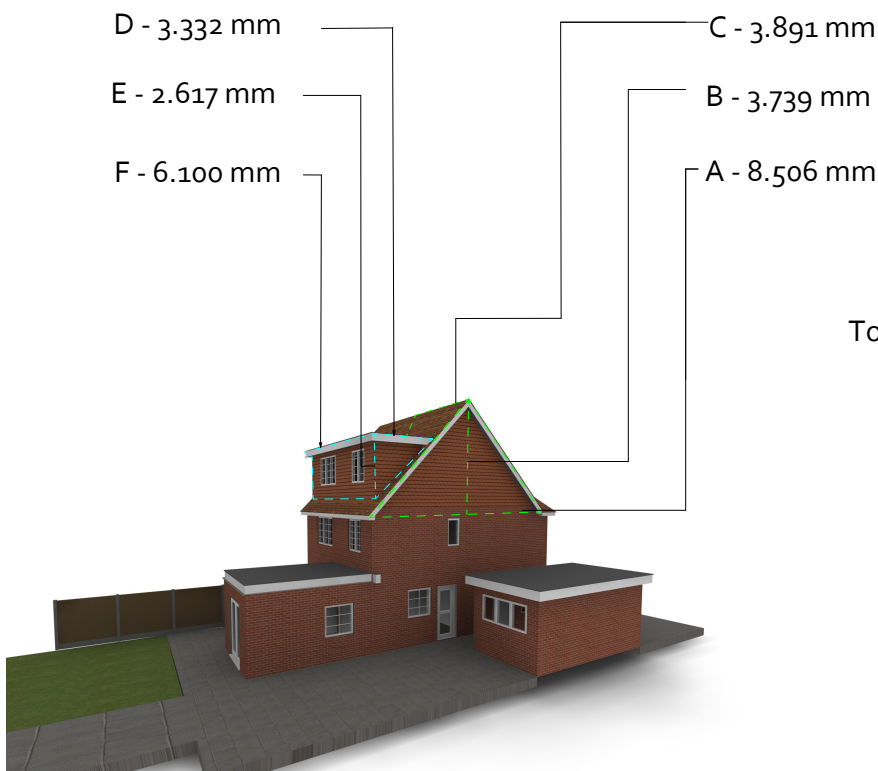
Volume of hip to gable segment - Pyramid - Base area x 1/3 height

Formula - $V = A \times 1/2 \times B \times 1/3 \times C$

$$V = 8.506 \times 1/2 \times 3.739 \times 1/3 \times 3.891 =$$

20.61 CUBIC METRES

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Total Calculation of roof enlargement

47.23 m3

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