

Calculations for Roof Volume

Hip to gable with rear dormer

- A - Depth of the main roof - 6.640 mm
- B - Height of main roof - 3.474 mm
- C - Ridge to eaves in plan - 3.350 mm
- D - Projection of rear dormer - 2.300 mm
- E - Height of rear dormer - 2.700 mm
- F - Width of dormer - 10.500 mm

Proposed Dormer enlargement

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

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

$$V = 2.300 \times 1/2 \times 2.700 \times 10.500 =$$

32.60 CUBIC METRES

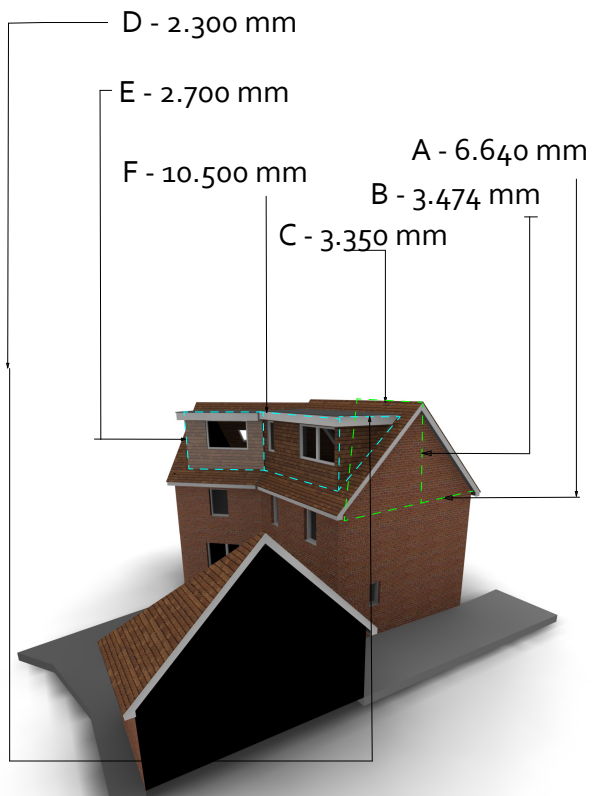
Hip to gable enlargement -

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

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

$$V = 6.640 \times 1/2 \times 3.474 \times 1/3 \times 3.350 =$$

12.87 CUBIC METRES



Total Calculation of roof enlargement

45.47 m3

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