

Roof Volume Calculations in support of Certificate of Lawfulness Application
42941/APP/2018/3501 - 6 North View, HA5 1PE

Original Roof Volume:

Prism: $[L2.13m \times H3.55m \times D8.45m] / 2 =$ 31.9 m³

Hip: $[L4.14m \times H.55m \times D8.45m] / 3 =$ 41.4 m³

Front Angled Hip: $[L0.93m \times H1.80m \times D4.31m] / 2 =$ 2.85 m³

Original Volume: 79.45 m³

Previous Roof Extension Volume:
42941/89/0030

Rear Angled Hip: $[L3.52m \times H1.50m \times D3.09m] / 2 =$ 8.16 m³

Newly Proposed Extension Volume:
42941/APP/2018/3501

Hip to Gable:
= Gable Volume - Hip Volume
= $(L3.88m \times H3.55m \times D8.45m) / 2 - (L4.14m \times H3.55m \times D8.45m) / 3$
= 58.20 - 41.40
16.80 m³

Dormer Volume:
= $(L5.48m \times H2.60m \times D3.06m) / 2$
= 43.60 / 2
21.80 m³

Volume Increase Proposed by 42941/APP/2018/3501:
= 16.80 + 21.80
38.60 m³

Fully Extended Volume:

38.60 m³ + 8.16 m³ 46.76 m³

Measurements are taken from internal roof dimensions to provide internal roof volume figures.

Total additional volume is under the 50m³ limit as required by Permitted Development for Householders Class B.1 Paragraph (d)