Loft Conversion Volume Calculation for
1 Silver Birch Drive, Worthing, BN13 3PP

Calculation of the external volume of the proposed rear dormer and hip-to-gable roof extension in the loft conversion.

Rear Dormer:
Max. height of dormer: 2.220m
Projection of dormer: 3.000m
Width of dormer: 4.800m

External volume of the dormer: $\frac{2.220m \times 3.000m \times 4.800m}{2}$ = **15.98m³**

Hip to Gable Extension:
Height of gable: 3.400m
Top width from hip to gable: 3.865m
Base length of gable: 7.730m

External volume of the extension:
$\frac{3.400m \times 3.865m \times 7.730m}{6}$ = **16.93m³ X 2 = 33.86m³**

Hip to gable extension and dormer to be completed under permitted development allowance.

Total external volume:
15.98m³ + 33.86m³ = 49.84m³ < 50m³

Therefore, the roof extension is **within** the permitted development allowance.