



PROJECT	143 RUSHAMS ROAD, MORSHAM		
Job No.	DE 1400	Date JULY '26	Sheet No. V-02 REV-A.

Volume Calculation for Loft Conversion.

To be read in conjunction with drawing:
DE 1400/V-02.

DORMER:

$$\begin{aligned} \text{AREA A; } A1 \times A2 &= \left(\frac{A3 \times A2}{2} \right) \\ 3486 \times 100 &- \left(\frac{133 \times 100}{2} \right) = 341,950 \end{aligned}$$

$$\begin{aligned} \text{Volume A; } \frac{\text{AREA A} \times A4}{1,000,000,000} &= \text{Volume A m}^3 \\ \frac{341,950 \times 5766}{1,000,000,000} &= \underline{\underline{1.971 \text{ m}^3}} \end{aligned}$$

$$\begin{aligned} \text{AREA B; } B1 \times B2 &- \left(\frac{B3 \times B2}{2} \right) \\ 3333 \times 200 &- \left(\frac{265 \times 200}{2} \right) = 640,100. \end{aligned}$$

$$\begin{aligned} \text{Volume B; } \frac{\text{AREA B} \times B4}{1,000,000,000} &= \text{Volume B m}^3 \\ \frac{640,100 \times 5766}{1,000,000,000} &= \underline{\underline{3.690 \text{ m}^3}} \end{aligned}$$



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$$\text{AREA C; } \left(\frac{C1 \times C2}{2} \right) \times C3$$

$$\frac{3017 \times 2274}{2} = 3430329$$

$$\times 5666$$

$$19436244114$$

$$\text{Volume C; } = \frac{19.436 \text{ m}^3}{1000,000,000} = \underline{\underline{19.436}}$$

$$\text{DORMER VOLUME} = \text{VOLUME A} + \text{B} + \text{C}$$

$$1.971 + 3.696 + 19.436$$

$$= \underline{\underline{25.097 \text{ m}^3}}$$

MIP TO GABLE

- OVERALL VOLUME OF MIP TO GABLE

$$= \frac{1}{6} D1 \times D2 \times D3$$

$$= \frac{9096 \times 5789 \times 2772}{6}$$

$$= \frac{24327415728}{1000,000,000}$$

$$= 24.327 \text{ m}^3$$

TOTAL VOLUME

$$24.327 + 25.097 = \underline{\underline{49.424 \text{ m}^3}}$$