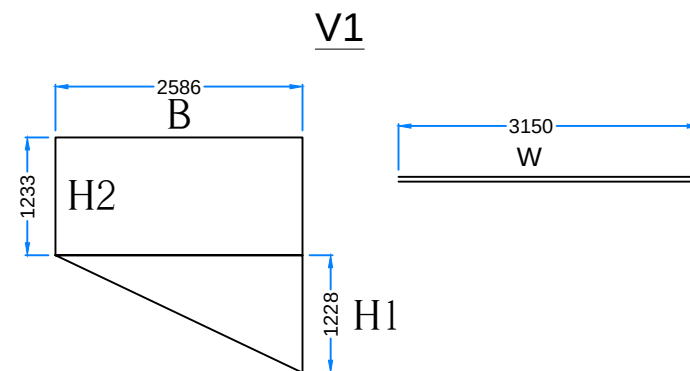




REAR DORMER SIDE PROFILE IS DIVIDED INTO TRIANGLE AND RECTANGLE FOR EASE OF CALCULATIONS.

AREA OF TRIANGLE

$\frac{1}{2}$ (BASE X HEIGHT)

$$B \times H1 \times \frac{1}{2}$$

$$2.586 \times 1.228 \times \frac{1}{2} = 1.59$$

AREA OF RECTANGLE

BASE X HEIGHT

$$B \times H2$$

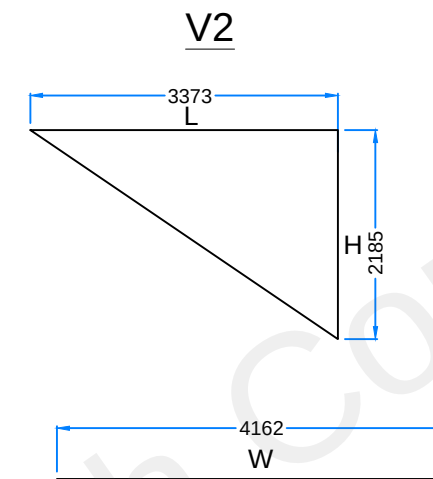
$$2.586 \times 1.233 = 3.19$$

$$\text{TOTAL SIDE PROFILE AREA} = 1.59 + 3.19 = 4.78$$

TOTAL VOLUME OF REAR DORMER =

SIDE PROFILE AREA X DEPTH

$$V1 = 4.78 \times 3.15 = 15.1$$



Main dormer calculation V

$\frac{1}{2}$ (Length x Width x Height)

$$L \times W \times H \times \frac{1}{2}$$

$$3.373 \times 4.162 \times 2.185 \times \frac{1}{2} =$$

$$V2 - \text{Volume} = 15.33 \text{ m}^3$$

TOTAL VOLUME CONSUMED

$$V1 - \text{VOLUME} = 15.1 \text{ m}^3$$

MAIN DORMER

$$V2 - \text{VOLUME} = 15.33 \text{ m}^3$$

$$\begin{aligned} \text{TOTAL VOLUME } V1 + V2 &= 15.1 + 15.33 \\ &= 30.43 \end{aligned}$$

$$30.43 \text{ m}^3 < 40 \text{ m}^3$$