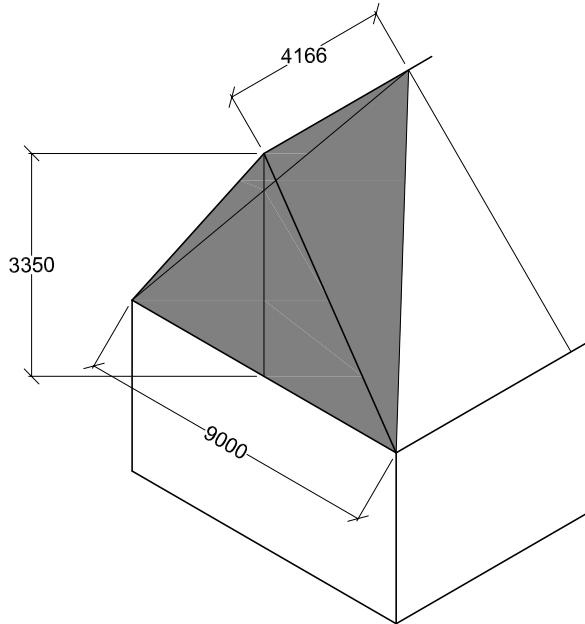


ROOF VOLUME CALCULATIONS

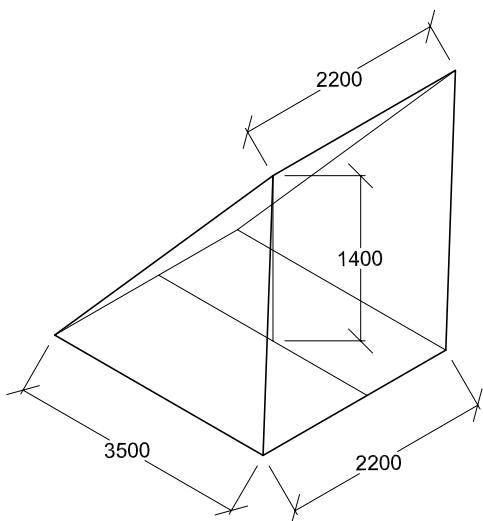


2 x PROPOSED HIP TO GABLE CONVERSIONs

$$21\text{m}^3 \times 2 = 42\text{m}^3$$

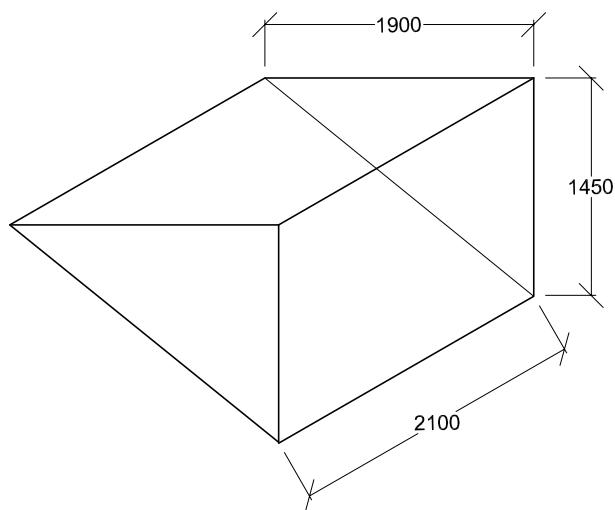
DEDUCT CROWN ROOF SECTION AND 2 x HALF-HIP ENDS ($2\text{m}^3 + 1.5\text{m}^3 = 3.5\text{m}^3$)

$$42\text{m}^3 - 3.5\text{m}^3 = 38.5\text{m}^3$$



VOLUME OF EXISTING FRONT ROOF EXTENSION TO BE INCLUDED

$$5.5\text{m}^3$$



2 x PROPOSED REAR DORMER WINDOWS

$$2.89\text{m}^3 \times 2 = 5.78\text{m}^3$$

TOTAL VOLUME

$$\mathbf{49.78\text{m}^3}$$