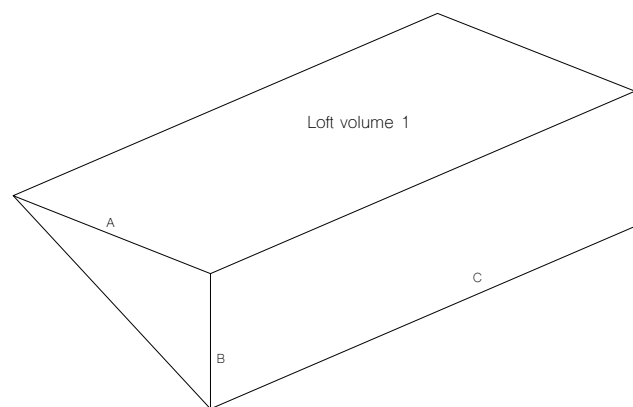


Loft volume - Calculation

Volume of dormer 1 =  $(A \times B \times C)/2$   
 =  $(2.80m \times 1.78m \times 6.11m)/2$   
 =  $(30.4m)/2$

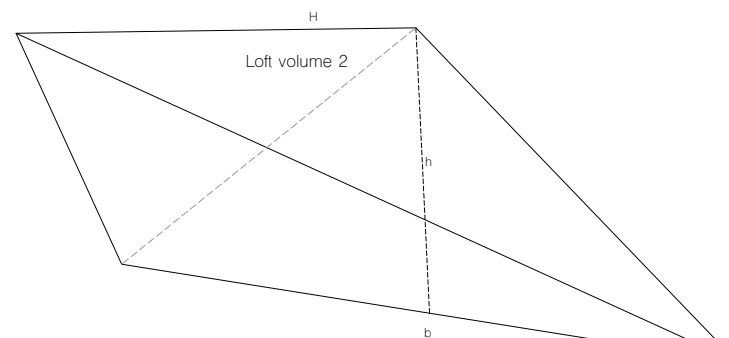
**Total Loft Volume Calculation = 15.2m<sup>3</sup>**



Loft volume 2 (New gable end to existing hip roof) - Calculation

Base Area =  $(bxh)/2$   
 = 19.6

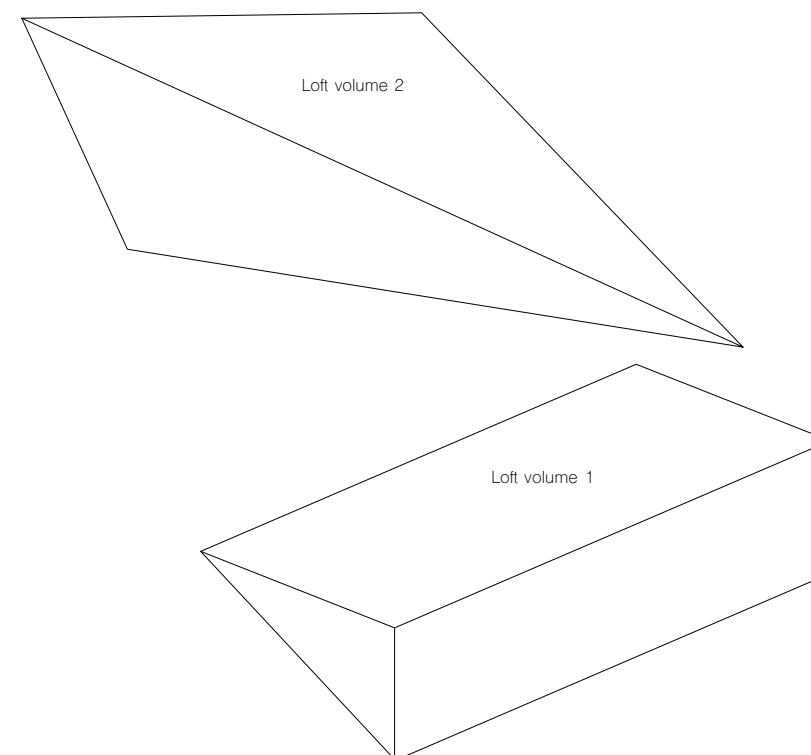
Volume of dormer 2 =  $(1/3) \text{ Base Area} \times \text{Height}$   
 =  $(1/3) 19.6 \times 5.317$   
 = **34.8m<sup>3</sup>**



**Loft volume 1 + Loft volume 2 = Total Loft Volume Calculation**

**34.8m<sup>3</sup> + 15.2m<sup>3</sup> = 50m<sup>3</sup>**

**Allowable Volume = 50m<sup>3</sup> for semi-detached houses**



1 Total loft volume calculation