

Volume calculations

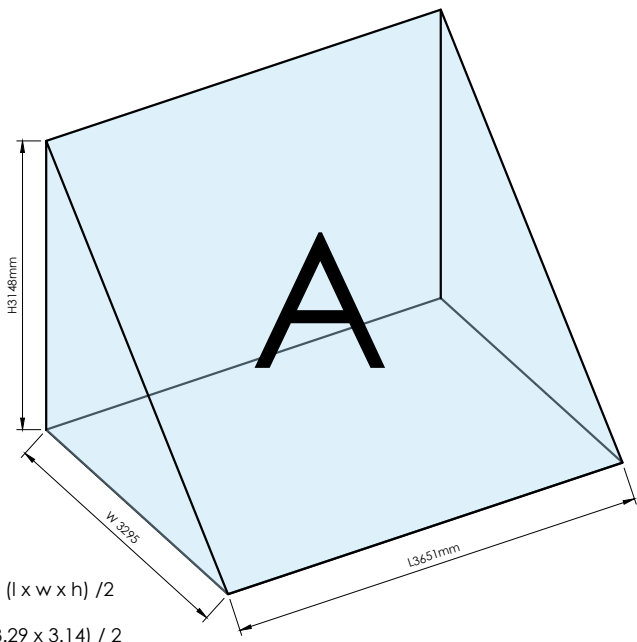
4 Lauderdale Drive,
Richmond upon Thames,
TW10 7BT

Planning

Scale @ A3: 1:100

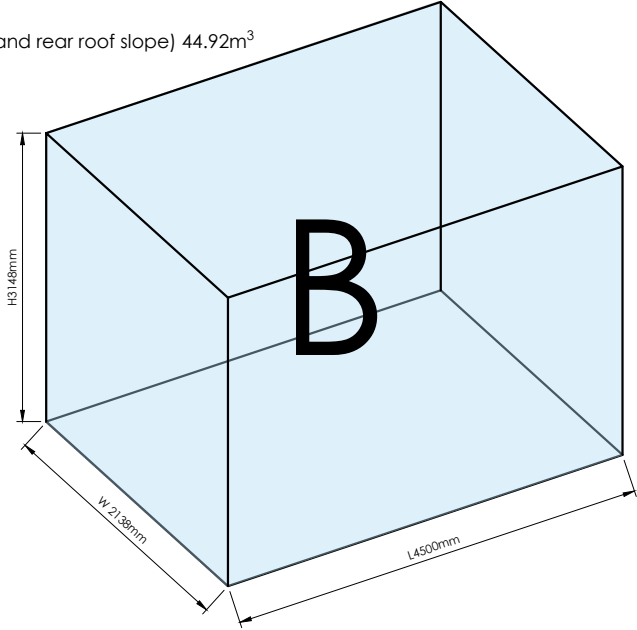
Date: 09.01.2025

Drg no: BL0559/A3/5.002

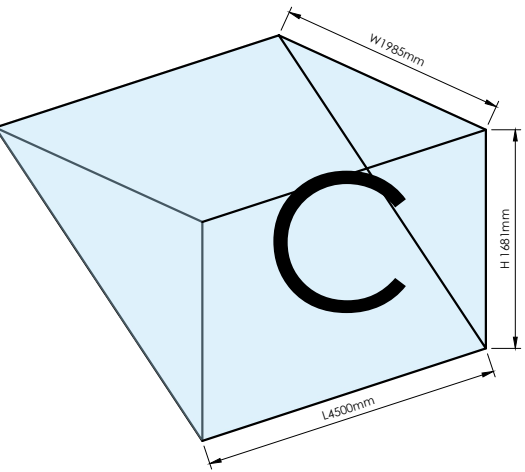


Volume = (l x w x h) / 2
= (3.65 x 3.29 x 3.14) / 2
= 22.46m³

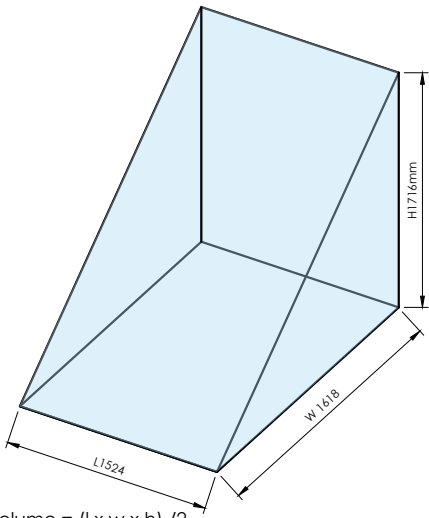
X2 (front and rear roof slope) 44.92m³



Volume = (l x w x h)
= 4.5 x 2.13 x 3.14
= 30.09m³

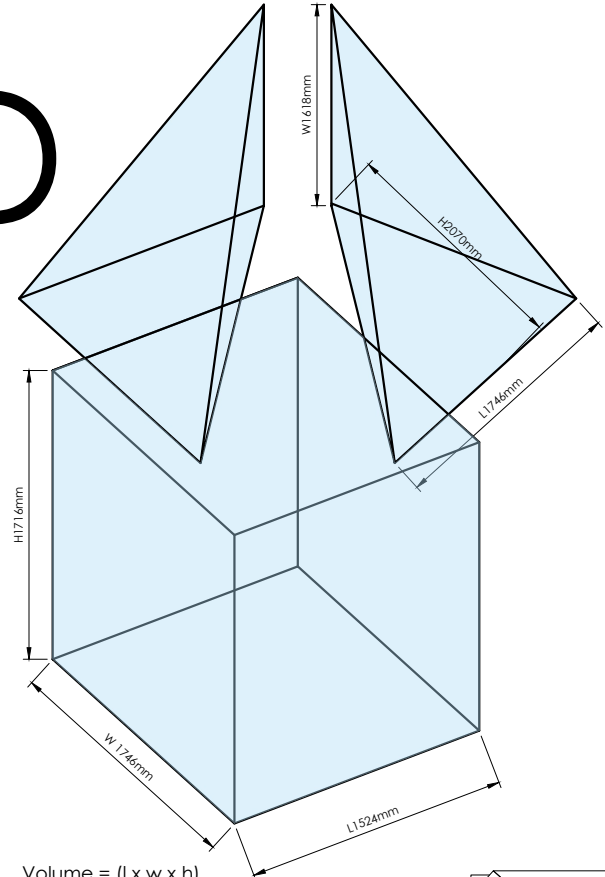


Volume = (l x w x h) / 2
= (4.5 x 1.98 x 1.68) / 2
= 7.48m³



Volume = (l x w x h) / 2
= (1.52 x 1.61 x 1.7) / 2
= 2.08m³

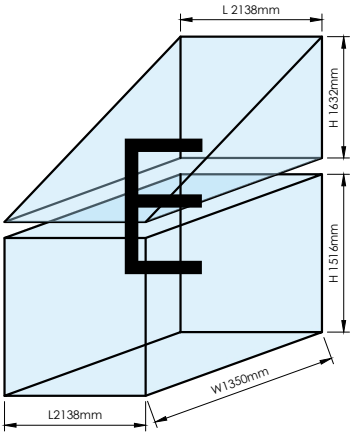
D



Volume = (l x w x h)
= (1.52 x 1.74 x 1.71)
= 4.5m³

Volume = $\frac{1}{3} (l \times h) / 2 \times h$
= $\frac{1}{3} (1.74 \times 2.07) / 2 \times 2.07$
= 1.24m³
x 2 (both sides of the hip) 2.48m³

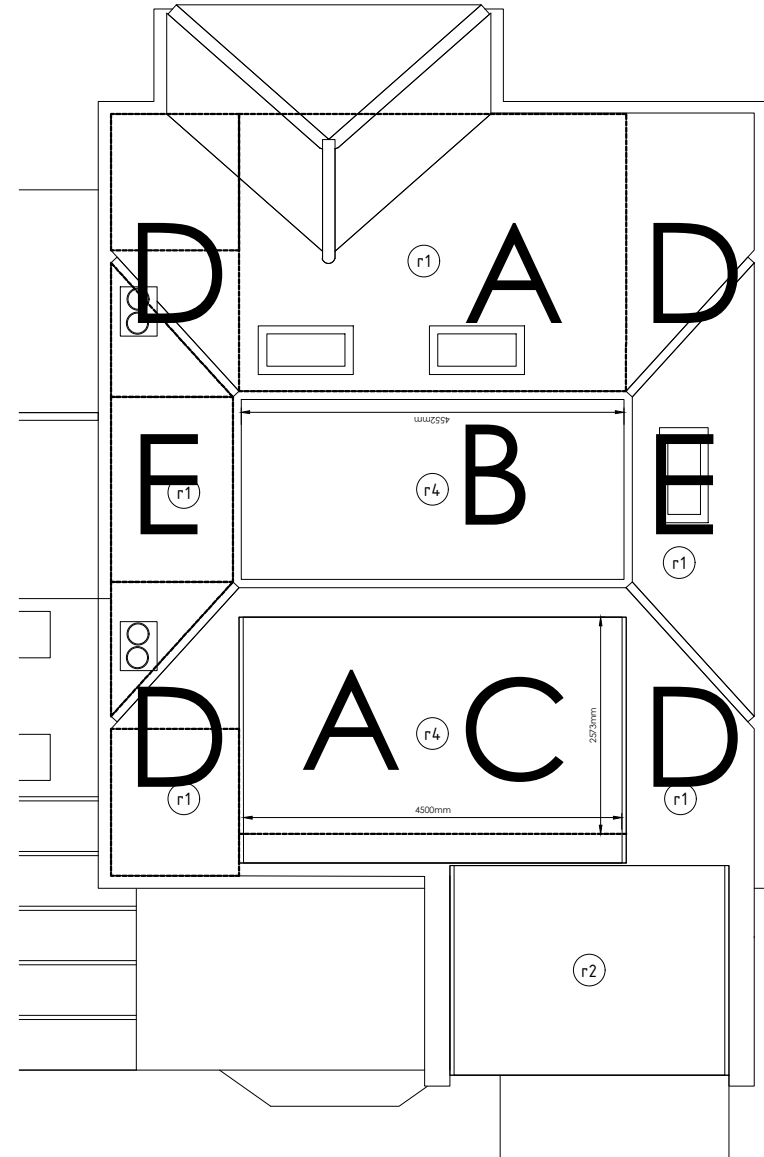
Total volume for D =
9.06 x 4 (Each corner of the roof)
36.24m³



Volume = (l x w x h) / 2
= (2.13 x 1.35 x 1.63) / 2
= 2.34m³

Volume = (l x w x h)
= (2.13 x 1.35 x 1.51)
= 4.34m³

Total = 6.68m³
X 2 (both sides of roof) = 13.36m³



PROPOSED roof - Total volume 130.70 m³
Total additional volume - 47.97 m³

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