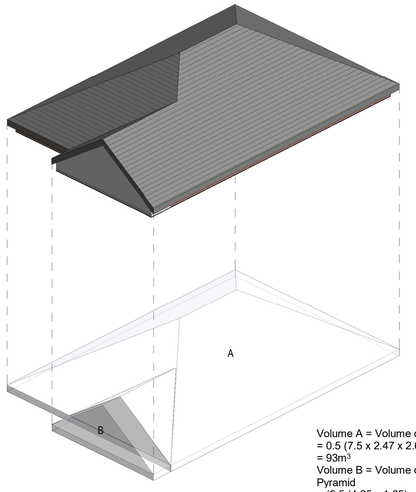
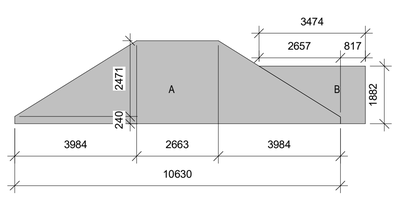


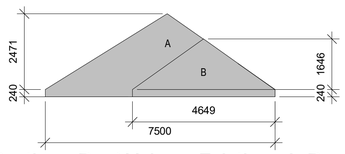
Volume A = Volume of Prism + 2 (Volume of Pyramid) + (Volume of Cuboid)
= 0.5 (7.5 x 2.47 x 2.66) + 2 (2.47 x 3.98 x 7.5) / 3 + (10.6 x 7.5 x 0.24)
= 93m³
Volume B = Volume of Prism + Volume of Cuboid + Volume of Triangular Pyramid
= (0.5 (4.65 x 1.65) x 0.82) + (4.65 x 0.82 x 0.24) + (1.65 x 4.65 /2 x 2.65) /3
= 7m³
Existing Total Roof Volume = 100m³

1. 3D Axo - Roof Volume - Existing



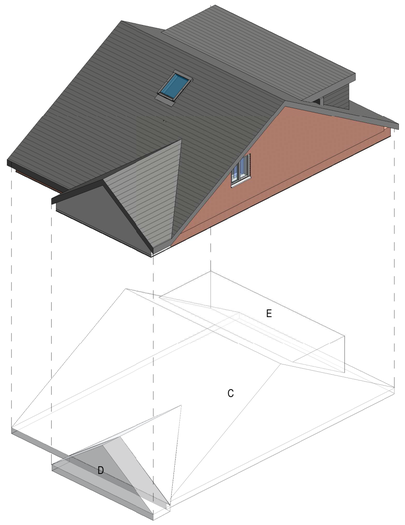
3. Section - Roof Volume Existing - F-R

1 : 100



4. Section - Roof Volume Existing - L-R

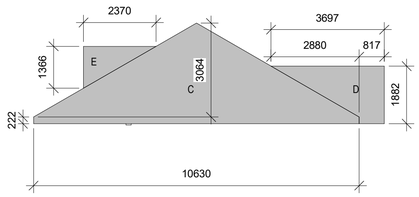
1 : 100



Volume C = (Area of Triangle + Area of Rectangle) x Length
= (0.5 (3.06 x 10.6) + (10.6 x 0.22)) x 7.1 = 132m³
Volume D = Volume of Prism + Volume of Cuboid + Volume of Triangular Pyramid
= (0.5 (4.65 x 1.66) x 0.82) + (4.65 x 0.82 x 0.27) + (1.66 x 4.65 /2 x 2.88) /3
= 8m³
Volume E = Area of Triangle x Length
= 0.5 (1.37 x 2.37 x 6.1) = 10m³
Proposed Roof Volume = 150m³

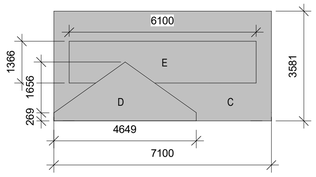
2. 3D Axo - Roof Volume - Proposed

Additional Roof Volume Calculation
Proposed Roof Volume - Existing Roof Volume < 50m³
150m³- 100m³ = 50m³



5. Section - Roof Volume Proposed - F-R

1 : 100



6. Section - Roof Volume Proposed - L-R

1 : 100

REV.	DESCRIPTION	BY	DATE

PROJECT: 5 Holmfield Avenue	SCALE @ A1: 1 : 100 · DATE: 14 Oct 2020 · DRAWN BY: SP
CLIENT: Mr & Mrs Rose	STATUS: Planning
TITLE: Roof Volume Calculation	PROJECT NO.: DA19130.5. · DRAWING NO.: 210. · REV.:

DEBTAL ARCHITECTURE
www.debtal.co.uk

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