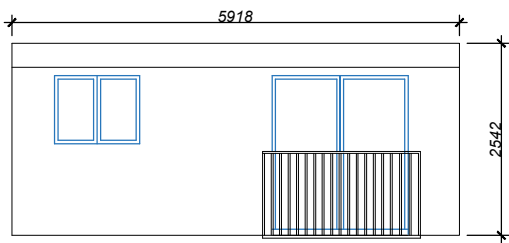
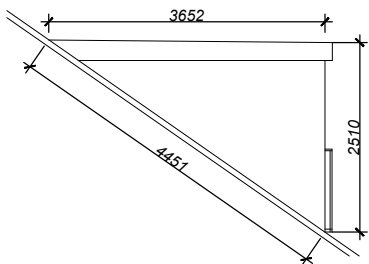


Volume of Roof Expansion

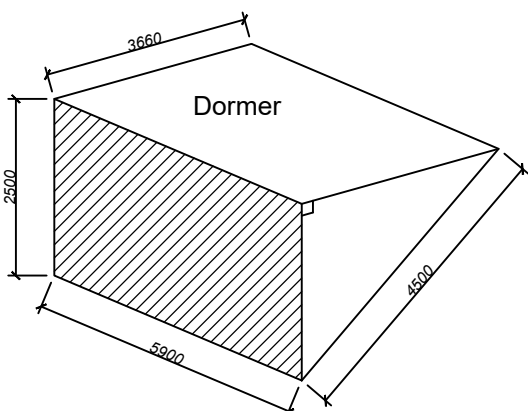
Volume of Rear Dormer



Front of Rear Dormer



Side Wall

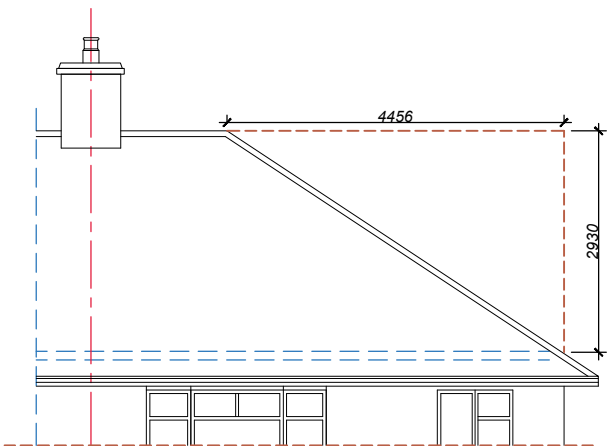


Right Angle Prism

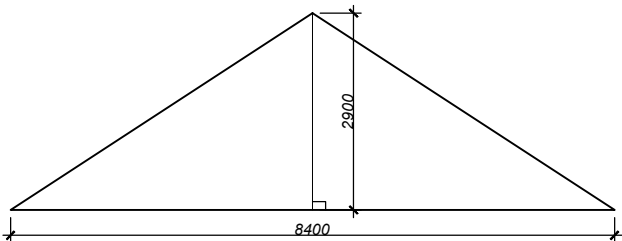
Volume of a Dormer

Formular: $(\text{base} \times \text{height}) / 2 \times \text{width}$
 $(3.66 \times 2.50) / 2 \times 5.90$
 $= 25.53 \text{ cu.m}$

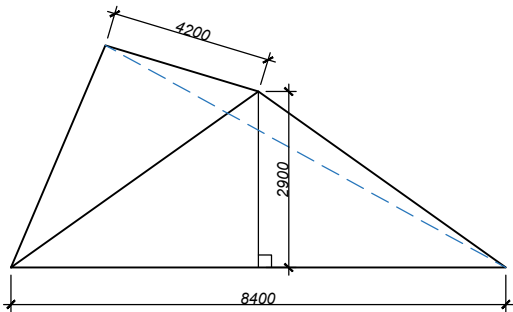
Volume of Roof Transformation
(Hip to Gable)



Front Elevation



Right Angle Triangle



Volume of hip to gable

Area = $1/2 \times \text{base} \times \text{height}$
 $= (2.90 \times 8.40) / 2$
 $= 12.18 \text{ sqm}$

Volume = $(\text{Area} \times \text{Depth}) / 3$
 $= (12.18 \times 4.5) / 3$
 $= 19.20 \text{ cu.m}$

GRAND TOTAL VOLUME FOR
ROOF EXPANSION:
VOLUME = 25.53 + 19.20 = 44.73 cu.m

DWG. TITLE:	Volume Claculations	PROJECT:		CLIENT	SITE:	GLOBPROJECT LIMITED Chartered Architects Yeoman House, 7th Floor 63 Croydon Road London SE20 7TS M 07961761712 E gprojectltd@gmail.com
JOB No.	GPR-059/2021					
DWG. No.	059/07/VC	Loft Conversion involving construction of a rear dormer, roof alteration from hip to gable and installation of skylight to front roof slope		Mohamed Al Fatlawi		
REVISION:						
SCALE:	ILLUSTRATION ONLY					
DRAWN:	BM					
DATE:	10.05.2021	Issue	Lawful Development	Note: In depth measurements to be determined on site prior to construction. This is a planning drawing and a separate design for Building Regulations will be required. NB: Prior to construction, a client is advised to seek professional advice of a Party Wall Surveyor		
CHECKED:	BM					