Loft Conversion Volume Calculation

Address : 102 Penhill Road, Lancing
Date : 21st October 2025

Volume of full hip to gable roof extension

A	width of roof / house	**6.00**	m
B	height of roof	**2.50**	m
C	length of new ridge	**3.40**	m

Volume of the triangular prism (width A x height B x length C / 6)

6.0m x 2.5m x 3.4m / 6	=	**8.50**	m3

Volume of dormer 1 - north side (length D x height E x depth F / 2)

D	length of dormer	=	**5.40**	m
E	height of dormer	=	**2.30**	m
F	depth of dormer	=	**3.15**	m
		=	**19.56**	m3

Volume of dormer 2 - south side front (length D x height E x depth F / 2)

D	length of dormer	=	**3.50**	m
E	height of dormer	=	**2.30**	m
F	depth of dormer	=	**3.15**	m
		=	**12.68**	m3

Volume of dormer 3 - south side rear (length D x height E x depth F / 2)

D	length of dormer	=	**3.30**	m
E	height of dormer	=	**2.00**	m
F	depth of dormer	=	**2.50**	m
		=	**8.25**	m3

Total volume of full gable + rear dormer = **48.99** m3

Permitted Development rules

Detached and Semi Detached - max. volume	*50m3 max.*
Terraced - max. volume	*40m3 max.*

Dormer to be set back min. 200mm from eaves
All materials to match the existing
No part to exceed the highest ridge
Side windows to have obscure glazing and fixed up to 1.7m above floor level
No roof extensions to the front of the dwelling
Velux rooflights not to protrude more than 150mm