

# 195 Fordwych Road Roof Extension Volume Calculations



DE METZ FORBES KNIGHT ARCHITECTS

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## Existing Roof Volumes

### Main Roof

Height (m)	3.10		
Width (m)	8.29		
	25.70	/2 =	12.85
			*
Hip length (m)	4.22	/2 =	2.11
			=
			27.11
Pitched roof length (m)	1.88 * 12.85		24.16

**Main Roof Total (m3) 51.27**

### Bay Window Roof

#### Section 1

Height (m)	1.98		
Width (m)	3.98		
	7.88	/2 =	3.94
			*
Length (m)	2.90		2.90
			=
			11.43
			/2 =
Sub Total (m3)			5.71

#### Section 2

Height (m)	1.98		
Width (m)	3.98		
Sub Total (m3)	7.88	/2 =	3.94

**Bay Window Roof Total (m3) 9.65**

### Rear Roof

Height (m)	1.46		
Width (m)	3.00		
	4.38	/2 =	2.19
Length (m)	8.00 * 2.19 =		17.52

**Rear Roof Total 17.52**

**Existing Roof Total (m3) 78.44**

## Additional Roof Volumes

### Hip to Gable

Height (m)	2.36		
Width (m)	7.36		
	17.37	/2 =	8.68
			*
Length (m)	3.80	/2 =	1.90
			=

**Hip to Gable Total (m3) 16.50**

### Dormer 1 (Main Roof)

Height (m)	2.20		
Width (m)	3.40		
	7.48	/2 =	3.74
			*
Length (m)	4.90		4.90
			=

**Dormer 1 Total (m3) 18.33**

**Additional Roof Total (m3) 34.83**

**Proposed Total (Existing + Additional) (m3) 113.27**

Revisions