



**VOLUME CALCULATION FOR HIP TO GABLE EXTENSION TO MAIN ROOF**

increase in length of existing roof ridge line	3.05 m
width of existing hipped roof at eaves	6.35 m
height of ridge above existing roofline at end of extended ridge	2.55 m
volume added = $(3.05\text{m} \times 6.35\text{m} \times 2.55\text{m}) / 6$	8.23cubic m
<b>ADDITIONAL VOLUME ADDED BY HIP TO GABLE EXTENSION TO MAIN ROOF</b>	<b>8.23cubic m</b>

**VOLUME CALCULATION FOR NEW REAR BOX DORMER**

cross section area of box dormer	$(2.75\text{m} \times 3.40\text{m}) / 2$	4.68 sqm
volume of box dormer	$4.68\text{sqm} \times 6.70\text{m}$ (dormer width)	31.36cubic m
<b>ADDITIONAL VOLUME ADDED BY BOX DORMER OVER REAR ADDITION ROOF</b>		<b>31.36cubic m</b>

<b>TOTAL VOLUME ADDED BY EXTENSIONS TO ROOF</b>	$8.23\text{cubic m} + 31.36\text{cubic m}$	<b>39.59cubic m</b>
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**RUSSELL HUNT ARCHITECTS**

CLIENT	Michael Zwick & Tamara Corin
PROJECT	21 St Marys Avenue, London, N3 1SN
TITLE	Proposed Front Elevation
PROJECT NO	2303
DRAWING NO	L(-4)11
SCALE	1:50@A3
DATE	Feb 2024
STATUS	Planning
DRAWN	Rus
CHECKED	