

18.11.19

400 Bass Lane, Bury

Proposed extension – volume calculation

Volume of original dwelling – pre 1948

[Excludes conservatory assumed built post 1948]

Ground floor volume
 $118.4\text{m}^2 \times 2.97\text{m} = 351.65\text{m}^3$

First floor volume
 $98.9\text{m}^2 \times 1.90\text{m} = 187.91\text{m}^3$

Pitched roof volume
 $74.6\text{m}^2 \times 1.95\text{m} \times 0.5 = 72.74\text{m}^3$

Total volume **= 612.30m³**

Volume of proposed extension

Ground floor volume
 $24.0\text{m}^2 \times 2.97\text{m} = 71.28\text{m}^3$

First floor volume
 $25.3\text{m}^2 \times 1.90\text{m} = 49.02\text{m}^3$

Pitched roof volume
 $27.2\text{m}^2 \times 2.10\text{m} \times 0.5 = 28.56\text{m}^3$

Total volume **= 148.86m³**

Increase in volume over original dwelling

$148.86\text{m}^3 / 612.30\text{m}^3 \times 100\% = \underline{\underline{24.31\%}}$