Sheiren Home — Hamilton

Garage beam

$UDL = \left(3.4 \times \frac{0.9}{2} + 0.6 \times \frac{0.9}{2}\right) = 1.8$ kN/m

$BM = 1.8 \times \frac{5^2}{8}$

$= 5.63$ kNm.

Z reqd $= \frac{5.63 \times 10^6}{1.35 \times 6 \times 1.14} = 610 \times 10^3$ mm^3.

2/ 250 × 50

$\delta = 5/384 \times \frac{1.8 \times 10^3 \times 5^4 \times 10^9}{8 \times 10^3 \times 114 \times 10^6}$

$= 16$ mm. .0032 L.

use 2/ 300 × 50

Ranjit Waring 15/12/90

(49. DELHURST)

AMENDED PLANS	
Date	20 DEC 1990
Stat P.	
P. & D.	
BL	
Design	
ST/TR