

3D3 2013. Numerical answers

1 (b) (i) UB 203×102×23

(ii) UC203×203×46

2 (a) 9.93 kN/m

(c) 111.4 kN; 159 kN

3 (b) (i) 226 mm, $199.6 \times 10^6 \text{ mm}^4$

(iii) 12.3 mm, 4.4 mm

(iv) 0.94 mm, -0.62 mm

4 (b) (i) 31.25 kNm

(ii) 109.2 kNm; $4.89 \times 10^{-6} \text{ mm}^{-1}$

(iii) 271.3 kNm