

4D10 Structural Steel work 2014

ANSWERS:

Q1: c) $93 \text{ kNm} > 85 \text{ kNm}$. OK. d) $93 \text{ kNm} < 125 \text{ kNm}$. FAIL

Q2: a) 3692 kN, 650 kNm, (760kN). b) 3138 kN, 1218 kN, 319 kNm

Q3: a) FAIL (instability of top web panel over support) b) 470,000 cycles

Q4: a) $1191 \text{ kNm} > 878 \text{ kNm}$ OK b) 172 studs(13 by 65) c) 23.5 mm