

Balk: 2. $q/m: 0.35 \times 0.40 \text{ m}$ $l_b = 2.10$
 $B_{el}: 2 \times 2.5 = 3.5 \text{ kN/m}$
 $m.w.: 2 + 2.5 = 5.0$
 $v. d. b.: 1.9 + 1.5 = 3.0$
 $q = \frac{11.5}{1} \text{ kN/m}$

$M_{max} = \frac{1}{8} \times 2.10^2 + 11.5 = 6.35 \text{ kNm}$

$A_{400 \text{ min}} = 210 \text{ mm}^2$ ✓

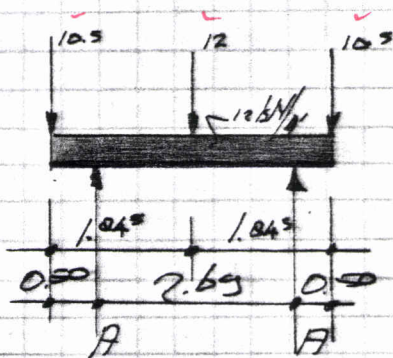
$R = \frac{1}{2} \times 2.10 + 11.5 = 12 \text{ kN}$ ✓

$\sigma_d < 0.55 \text{ N/mm}^2$ ✓

stellen later gemidd.

Balk: 3. $q/m: 0.35 \times 0.40 \text{ m}$ $l_b = 3.69 \text{ m}$
 $B_{el}: 2 \times 3.0 = 6.0 \text{ kN/m}$
 $m.w.: 2 + 3.0 = 5.0$
 $v. d. b.: 1.9 + 1.5 = 3.0$
 $q = \frac{12.0}{1} \text{ kN/m}$ ✓

Punt balk 1 = 10.5 kN
 " " " " 2 = 12 kN



$M_{uitst. A} = \frac{0.50^2}{2} \times 12 + 10.5 \times 0.5 = 1.5 + 5.25 = 6.75 \text{ kNm}$

$A_{400 \text{ min}} = 210 \text{ mm}^2$ ✓

$R_{A} = 10.5 + 0.5 \times 12 = 16.5 \text{ kN}$ ✓

$M_{A-A} = 12 \text{ kNm}$ $A_{400 \text{ min}} = 210 \text{ mm}^2$ ✓

$R_{aalt. A} = 16.5 + 22 = 38.5 \text{ kN}$ ✓

$\sigma_d < 0.55 \text{ N/mm}^2$ ✓