



PROJECTNR:

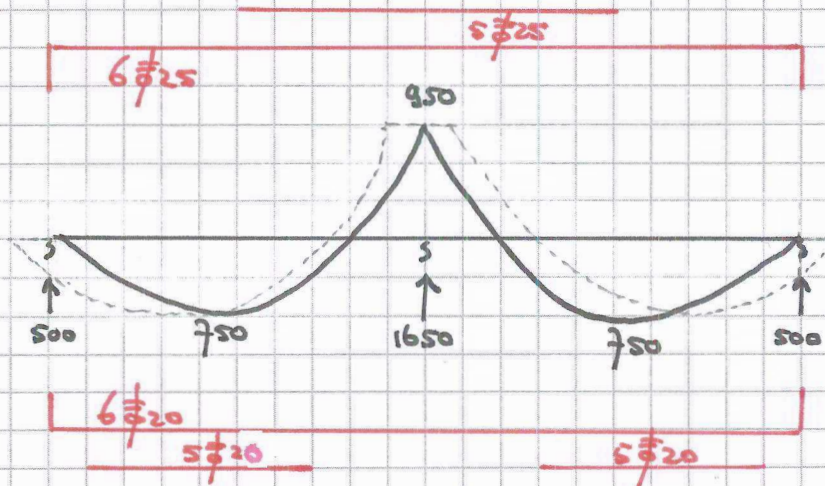
DATUM:

GEWIJZIGD:

BLZ.

Verankeringslengte oplegging balk

Betonbalk 900×600 C30/37 XC1



Spanning wapening t.p.v. oplegging

Moment t.p.v. steunpunt:

- i.v.m. verplaatsen momentenlijn $\rightarrow 240 \text{ kNm}$
- Oplegreactie $\times d = 500 \times 0.55 \rightarrow 275 \text{ kNm}$

$$\left. \begin{array}{l} M_D = 275 \text{ kNm} \\ M_u = 333 \text{ kNm (6ø20)} \end{array} \right\} \sigma_s = 360 \text{ N/mm}^2$$

Opleglengte = 214 mm.

Controleren of dit voldoende is.



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Verankeringslengte

$$< 30 / 3 \rightarrow f_{cbd} = 1.35 \text{ N/mm}^2$$

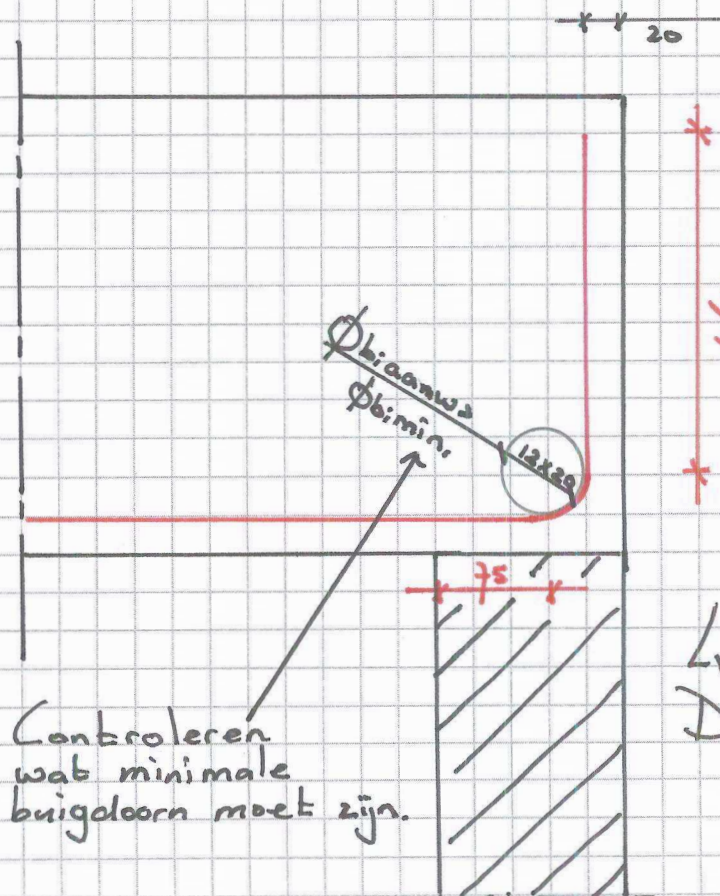
$$f_{bd} = 2.25 \times 1.35 \times 1.0 \times 1.0 = 3.04 \text{ N/mm}^2$$

$\phi_{hw} < 32$
onderwarp (1.0)
bovenwarp (0.7)

$$\sigma_{b; \text{druk}} = 500 \times 10^3 / 900 \times 214 = 2.6 \text{ N/mm}^2$$

$$\alpha = 0.7 < 1 - 0.04 \times \sigma_{b; \text{druk}} < 1.0 \rightarrow 0.90$$

$$L_v = 0.9 \times \frac{\phi_{20} \times 360}{4 \times 3.04} = 535 \text{ mm.}$$



$L_v = 535 \text{ mm}$
Dus voldoet