

ÖVNING 1

2. 1. M& j Ö

- Ä 1. C30 $f_{cu,k}=30\text{N/mm}^2$;
- Ä 2. 20mm $A_0=245\text{mm}^2$;
- Ä 3. 20mm $A_1=314\text{mm}^2$;
- Ä 4. $8.8 \times 4 \times \dots$ $f_{yk}=640\text{N/mm}^2$;
- Ä 5. HRB400 $f_{yk}=400\text{N/mm}^2$ $f_y=360\text{N/mm}^2$

1. ÖP

1. $N_1 = A_1 \times f_y = 0.001 \times 314 \times 360 = 109.4\text{kN}$

2. $N_{s,d} = N_d \times A_s f_y / K_s$

$N_{s,d} = N_d \times A_s f_y / K_s$

$N_d = N_d \times A_s f_y / K_s$

$f_{sk} = f_{yk} \times$

$A_s = A_s \times$

$K_s = K_s \times 1.3 \times 1.2$

$N_{s,d} = N_d \times A_s f_{sk} / K_s$

2. 2E M& j Ö

Ä 1C C30E $f_{cu,k}=30\text{N/mm}^2$;

Ä 2A-8K1KJ- $\$$ 20mmEM0 $A_0=245\text{mm}^2$;

Ä 38K1KJEX $8.84 \times .3P\text{E}$ $f_{yk}=640\text{N/mm}^2$;

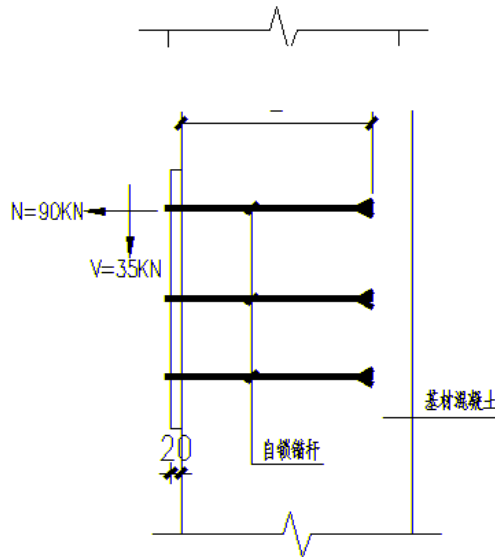
Ä 4ANEKJP% C8E8KJ

v;0EV N=90KNÈ V=35KNÄ

Ä 5KV-Ö K#fDEZb $f_{mck}=2.85\text{MPa} \times K\text{f}$

#f KV f ,2EYb $f_{msk}=6.0\text{MPa}\ddot{A}$

Ä 6K1\\$ D=25mm,MS D+=38mmÄ



. 2 N& KV È /p Ä 2=63< È Ä È 48 Ä Ä

1Ä KVÖ+Ö

KVÖE\\$

20EX

8.84 × 8K1

KVÄ $N_d=120\text{KN}\ddot{E}$ $N_{vd}=48.3\text{KN}\ddot{A}$

2Ä KVÖNÇ

Ö

636YÖ&

$$H = \sqrt[3]{\frac{(c N_d)^2}{9.8^2 f_{cu,k}}}$$

Ö H KV,KÖ

N_d	$K_{\text{VN}} \tilde{A}$	$\tilde{A} \text{ kN}\tilde{A}$	
c	$K_{\text{VE}} \tilde{E}$		$2 \times$
$f_{\text{cu}\tilde{E}k}$	$K_{\text{VE}} \tilde{A}$	$K_{\text{PE}} \tilde{A}$	$f_{\text{cu}\tilde{E}k} > 45 \text{ N/mm}^2 \tilde{A}$
	\tilde{E}		

