

² . 1È M& j Ö

Ä 1~~0~~ C30È $f_{cu} = 30\text{N/mm}^2$;

Ä 2~~8~~K1K~~V~~-~~\$~~ 20mm~~0~~ $A_0 = 245\text{mm}^2$;

Ä 3~~0~~~~0~~~~\$~~ 20mm~~0~~ $A_1 = 314\text{mm}^2$;

Ä 4~~8~~K1K~~V~~~~€~~~~X~~ $8.8 \times 3\text{P}\text{0}$ $f_{yk} = 640\text{N/mm}^2$;

Ä 5~~0~~~~0~~ HRB400È $f_{yk} = 400\text{N/mm}^2$ $f_y = 360\text{N/mm}^2$ Ä

. 1 ~~0~~~~0~~

1Ä AN~~0~~Ä $N_1 = A_1 \times f_y = 0.001 \times 314 \times 360 = 109.4\text{kN}$

2Ä ~~0~~ $N_{s,d} \leq N_d \text{ È } N_d \leq A_s f_y / K_s$

? Ö $N_{s,d}$ K~~V~~ ~~Ä~~Ä $\text{kN}\text{Å} \times$

N_d K~~V~~Ä $\text{Ä kN}\text{Å} \times$

f_{sk} K~~V~~~~0~~Ä $\text{kP}\text{Ä}$ È $f_{sk} = f_{yk} \times$

A_s K~~V~~~~0~~Ä $\text{m}\text{Å}$

K_s K~~V~~~~0~~Ä $1.3\text{P}\text{Ä}$ 1.2Ä

8K1K~~V~~Ä $N_d \leq A_s f_{sk} / K_s$

2. 2E M& j Ö

Ä 1P C30E $f_{cu,k}=30\text{N/mm}^2$;

Ä 2P+8K1KJ-\$ 20mmE M0 $A_0=245\text{mm}^2$;

Ä 3P+8K1KJ-€X 8.8 4×.3P E $f_{yk}=640\text{N/mm}^2$;

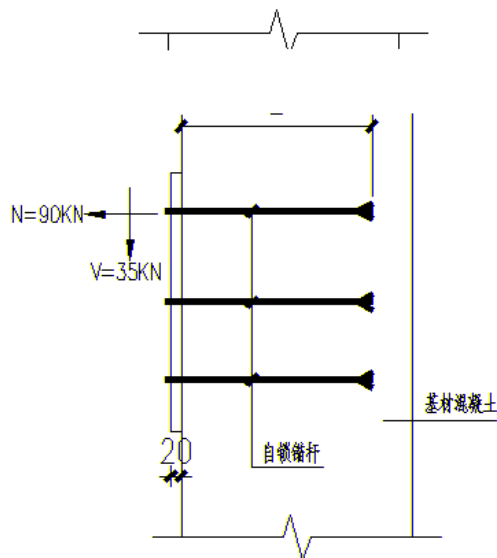
Ä 4AN&VP% C8E B8KJ

v;0E V N=90KN E V=35KNÄ

Ä 5KJ-Ö K#P 2E Jb $f_{mck}=2.85\text{MPa} \times K$

#P KJ f ,2E Jb $f_{msk}=6.0\text{MPa}$ Ä

Ä 6KJ\$ D=25mm, M\$ D+=38mmÄ



. 2 N& KJ E /P Ä ≈63< E Ä E 40 Ä Ä

1Ä KJ+Ö

KJ0E E\$ 20E X 8.8 4×8K1

KJÄ $N_d=120\text{KN}$ E $N_{vd}=48.3\text{KN}$ Ä

2Ä KJ KÖNÇ Ö

63E YÖE

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

PÖ H B, KÖ

N_d KVA

Å kNÅ×

Ψ_c 0.01+È

2×

$f_{cuÈ\text{ k}}$ 0.01

kPÈÅ $f_{cuÈ\text{ k}} > 45\text{N/mm}^2$ Å

Å+

