ÆÖKÿÌÕÃĀ

² . 1È M& j Ö

Ä 1ĵÒ C30È $f_{cu,k}$=30N/mm^2;

Ä 2ÅK1Kÿ-$ 20mmÈ9M0 A_0=245mm^2;

Ä 3ÒÕĒ{$ 20mmÈXM0 A1=314mm^2;

Ä 4ÅK1Kÿ€ĵX 8.8 4×.3PÈ f_{yk}=640N/mm^2;

Ä 5ÒÕĒĵ{ HRB400È f_{yk}=400N/mm^{2}È f_y=360N/mm^{2}Ä

. 1 ÌÕK{/ĵ?

1Ã AÑÕÇĪĒÂîAÑ $N_1=A_1\times f_y=0.001\times 314\times 360=109.4$kN

2Ã ĕÒ $N_{s,d}\le N_d$ È $N_d\le A_s f_y/K_s$

ĵ? Ö $N_{s,d}$ —— Kÿ ÊÄîAÑÄ kNÅ×

N_d —— KÿĒÇîAÑ Ä kNÅ×

f_{sk} —— KÿvĵĒÕÄ kPÈĵÅvÈ $f_{sk}=f_{yk}\times$

A_s —— Kÿv9XM0Ä ×mÅ

K_s —— Kÿvĵd3+ÈĵÈ& 1.3ÈĵMŽ& 1.2Ä

8K1KÿvĒÂîAÑ $N_d\le A_s f_{sk}/K_s$

² . 2È M& j Ö

Ä 1ÿÐ C30È $f_{\text{cuÈ k}}$=30N/mm^2;

Ä 2Ø+8K1K÷-$ 20mm9ÈM0 A_0=245mm^2;

Ä 3ÅK1K÷€jX 8.8 4×.3PÐ f_{yk}=640N/mm^2;

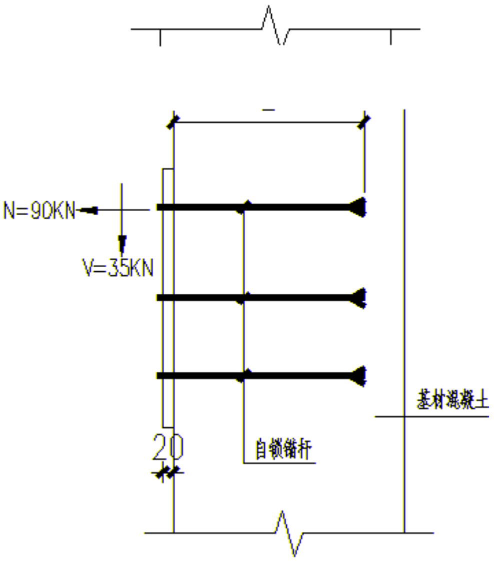
Ä 4ÅN&K÷P%C8ÈK8+KJ

v;0ÈW N=90KNÈ V=35KNÄ

Ä 5ÅK÷-jÐ K#>$2ÈÜb f_{mck}=2.85MPa× K#

#> K÷ f ,2ÈÜb f_{msk}=6.0MPaÄ

Ä 6ÅK$ D=25mm,ÅW$ D_+=38mmÄ



. 2 N& K÷ Ë /j? Ä ²63< Ë Ã Ë 48 Ä Å

1Ã K÷8P+Ð

K÷0ÿW÷Ë+$ 20ÈjX 8.8 4×8K1

K÷Ä N_d=120KNÈ N_{vd}=48.3KNÅÄ

2Ã K÷KÐÑÇ Ö

63<6Y2,e

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

?Ö H —— K÷,KÐ

N_d —— KÿĘâÃÑ Ä kNÅ×

Ψ_c —— ÞKdĒ+È 2×

$f_{\text{cuÈ k}}$ —— ÛðĮÄ kPaÈÅ $f_{\text{cuÈ k}}$>45N/mm^{2}ÀÈ

ßL+