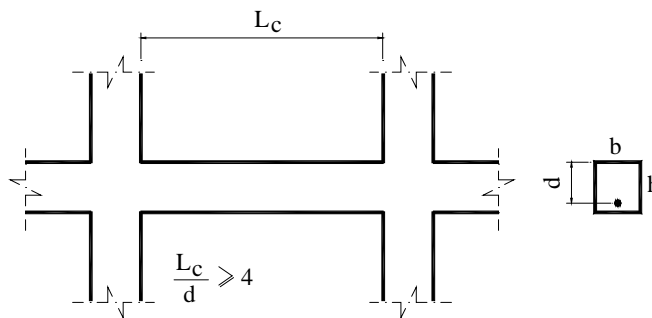


PERENCANAAN ELEMEN LENTUR SRPMK SESUAI (SNI 03-2847-02 (06))

ISWANDI IMRAN
KK Rekayasa Struktur, FTSL
Institut Teknologi Bandung

Persyaratan Elemen Lentur SRPMK

Gaya aksial tekan terfaktor pada komponen struktur tidak melebihi $0,1A_g f'_c$



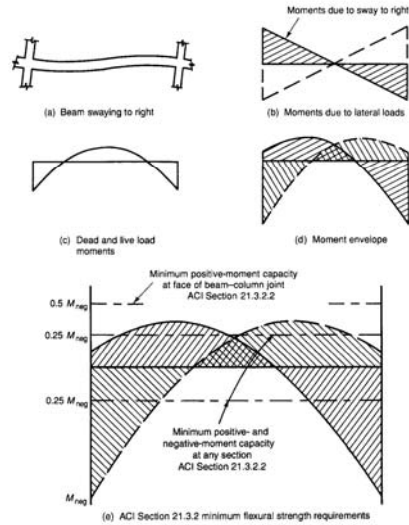
$$\frac{L_c}{d} \geq 4$$

$$\frac{b}{h} \geq 0.3$$

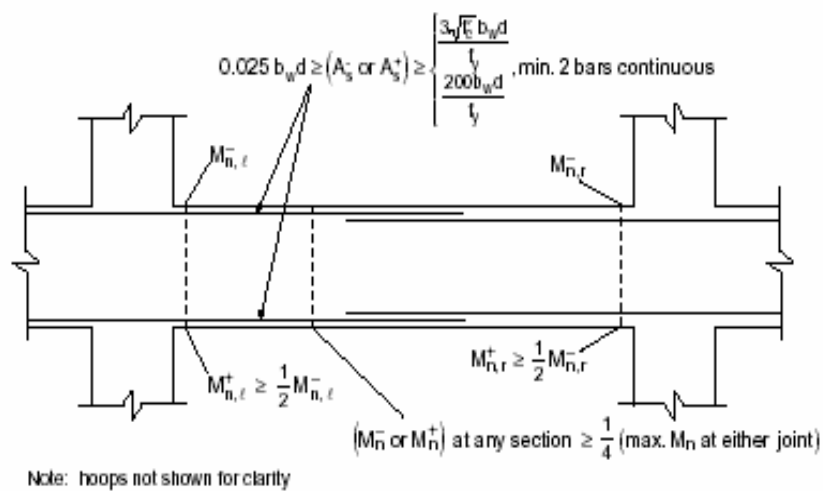
$$b \geq 250 \text{ mm}$$

$$< (c + 2 * \frac{3}{4} h)$$

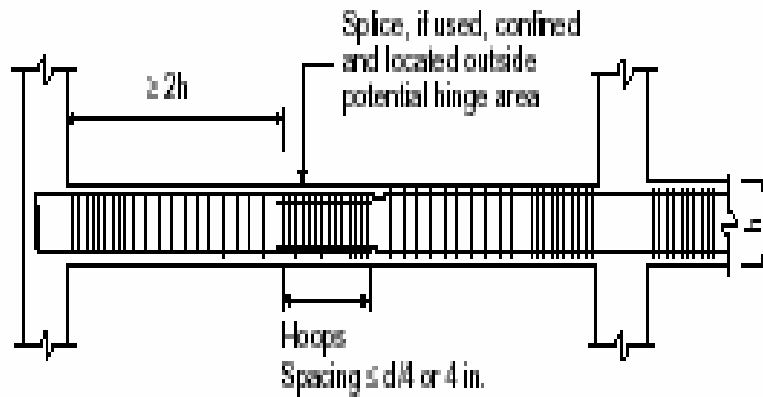
Kombinasi Lentur



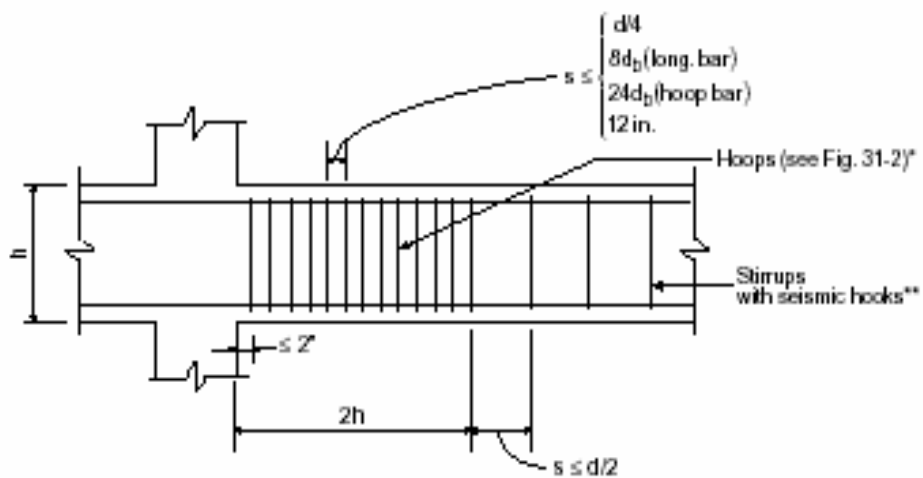
Persyaratan Tulangan Lentur



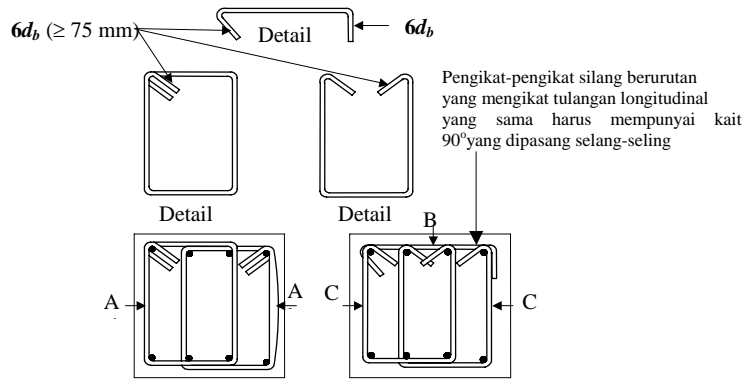
Persyaratan Sambungan Lewatan



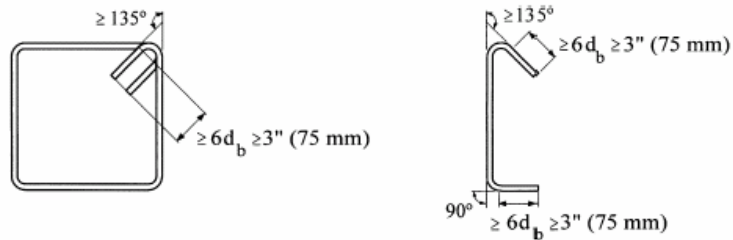
Persyaratan Tulangan Transversal



Contoh Sengkang Tertutup yang Dipasang Bertumpuk



Persyaratan untuk Closed Hoop and Cross Tie



a) Closed Hoop

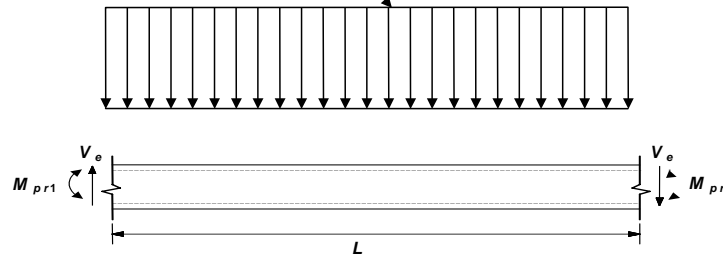
b) Single Leg Cross Tie

Perencanaan Geser untuk Balok

Untuk balok:

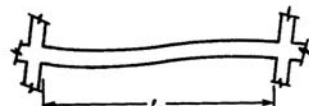
$$V_e = \frac{M_{pr1} + M_{pr2}}{L} \pm \frac{W_u L}{2}$$

Beban gravitasi $W_U = 1,2D + 1,0L$

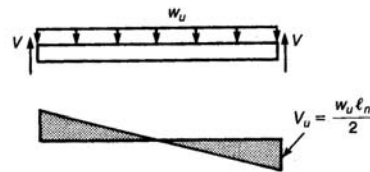


Momen ujung M_{pr} didasarkan pada tegangan tarik $1,25 f_y$

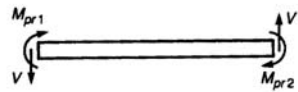
Kombinasi Geser



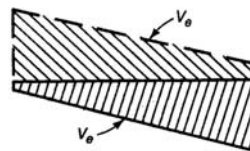
(a) Beam swaying to right



(c) Shears due to gravity loads and the vertical component of E



(b) Shears due to lateral loads



(d) Design shear force envelopes