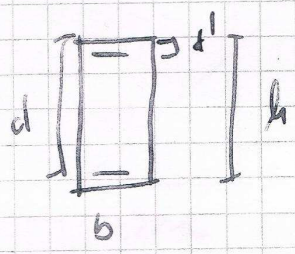


RESUMEN FORMULAS ADMISIVAS PARA RECTANGULARES

FLEXIÓN Y FLEXIÓN GIRATORIA



$$\mu_k = \frac{M_d}{b d^2 f_{ctd}}$$

$$\tau_d = \frac{N_d}{b d f_{ctd}}$$

$$\delta' = d'/d$$

$$w = \frac{A_s f_{yd}}{b d f_{ctd}}$$

FLEXIÓN

$$\tau_d = 0$$

1. $\mu_d \leq 0.257$

$$w = 0.85 \left[1 - \sqrt{1 - \frac{4.5}{1.7} \mu_d} \right]$$

2. $\mu_d > 0.257$

$$w = 0.306 + w'$$

$$w' = \frac{\mu_d - 0.257}{1 - \delta'}$$

* valide a. $d'/d \leq \left(\frac{d'/d \right)_{lim}$

$f_{ctd} (kg/cm^2)$	$\left(\frac{d'/d \right)_{lim}$
2200	0.333
4200	0.226
5000	0.184

para A_s sobre la flexión

MEZCLAS

si $V_d \leq 0.306$

momento
directo
 A_s

1. $\mu_d \leq 0.257$

$$w = 0.85 \left[1 - \sqrt{1 - \frac{4.5}{1.7} \mu_d} \right] - V_d$$

2. $\mu_d > 0.257$

$$w = 0.306 + w' - V_d$$

$$w' = \frac{\mu_d - 0.257}{1 - \delta'}$$

valide a: *

3. $V_d > 0.306 \implies$ DIVERSAS INTERACCIONES

TENSION

RESULTANTE TRACCIÓN

FUERZA
ARRASTRE

1. $\mu_d \leq 0.257$

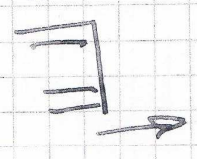
$$w = 0.85 \left[1 - \sqrt{1 - \frac{4.5}{1.7} \mu_d} \right] + V_d$$

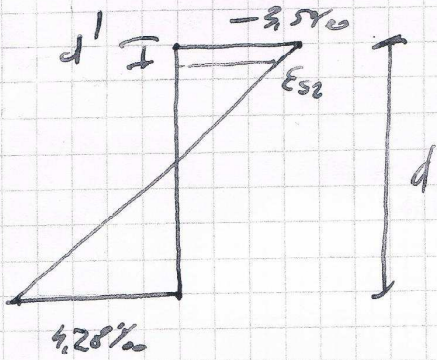
2. $\mu_d > 0.257$

$$w = 0.306 + w' + V_d$$

$$w' = \frac{\mu_d - 0.257}{1 - \delta'}$$

valide a: *





$$\epsilon_{s2} = (3.5 + 4.28) \left(1 - \frac{d'}{d}\right) - 4.28 \leq \epsilon_{yd}$$

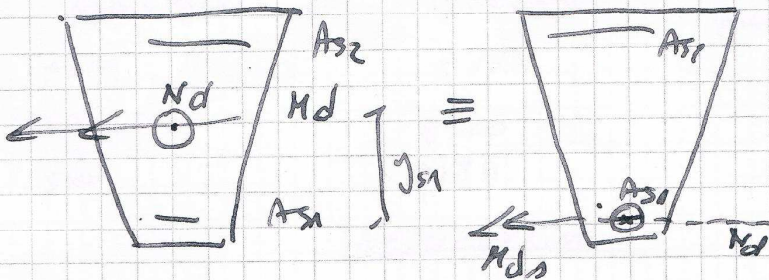
$$3.5 - 3.78 \frac{d'}{d} \leq \epsilon_{yd}$$

$$\frac{d'}{d} \geq \frac{3.5 - \epsilon_{yd}}{3.78}$$

f _{yk}	f _{yd} (115)	ε _{yd}	d'/d min
2200	1913	0.91 · 10 ⁻³	0.333
4200	3652	1.74 · 10 ⁻³	0.226
5000	4348	3.07 · 10 ⁻³	0.184

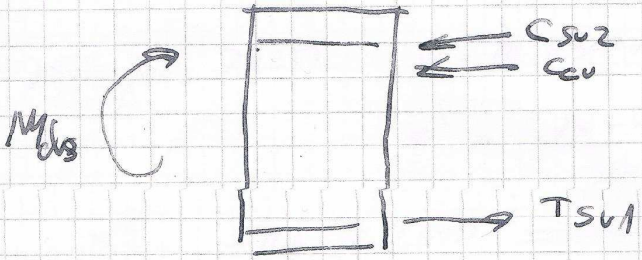
→ en tous cas la section est en flexion.

CHAPITRE 5



$$M_{ds} = M_d - Nd \cdot js_1$$

en un site longitudinal



Alors le sous le joint

