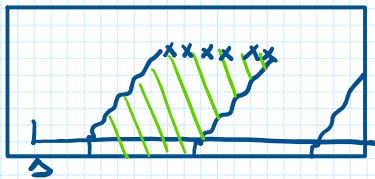
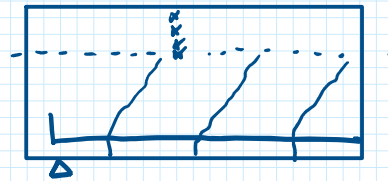


RESISTENZA A  $V_{Ed}$  DI ELEMENTI PRIVI DI ARMATURA A  $V_{Ed}$ :

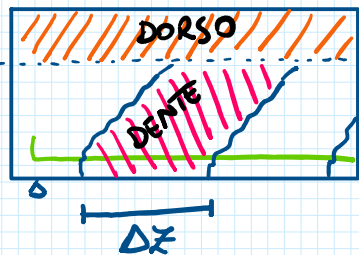
1) ROTTURA DENTE (PUNTONI) DI CLS



2) ROTTURA DEL DORSO DI CLS



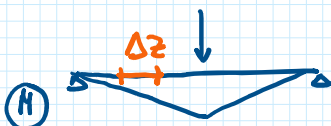
MODELLO  $\Rightarrow$  MODELLO A PETTINE

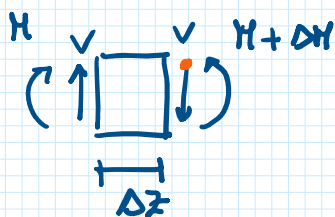
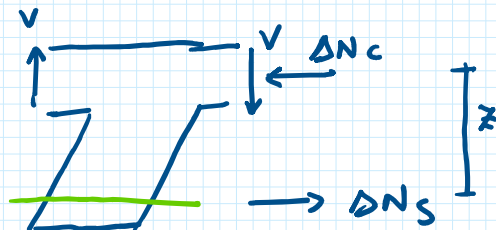
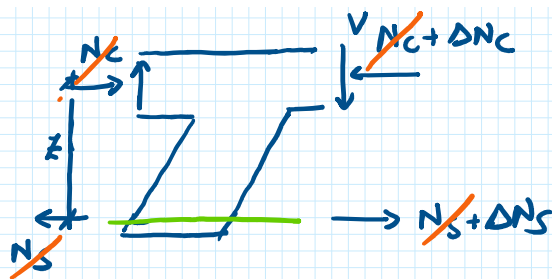
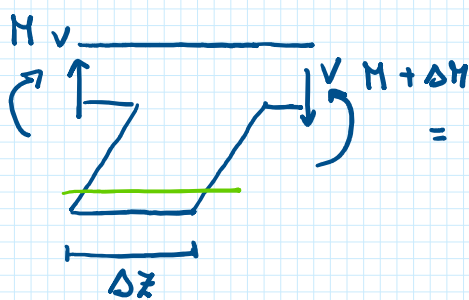


- DISTANZA TRA LE LESIONI A V È PARI A  $\Delta z$
- LESIONI SONO LISCE
- LESIONI A 45°
- CLS TRA DUE LESIONI SIA EFFICACE

$$\Rightarrow \left. \begin{matrix} V_{Rd \text{ DENTE}} \\ V_{Rd \text{ DORSO}} \end{matrix} \right\} \text{MIN} \Rightarrow V_{Rd}$$

$V_{Rd \text{ DENTE}}$



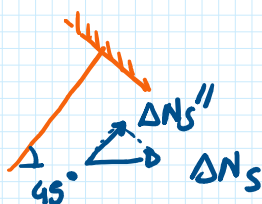
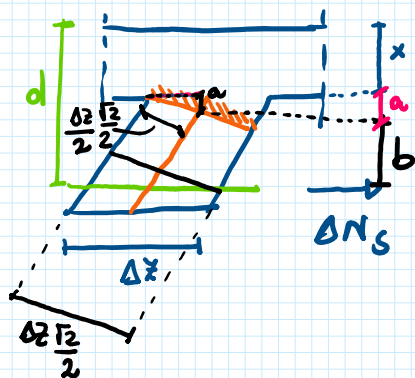


$$\begin{cases} \Delta N_s = \frac{\Delta H}{\Delta z} \Rightarrow \Delta N_s = \frac{V \Delta z}{\Delta z} \\ \Delta H = V \Delta z \end{cases}$$

$$H + V \Delta z - (H + \Delta H) = 0$$

$$\cancel{H} + V \Delta z - \cancel{H} - \Delta H = 0$$

$$\Delta H = V \Delta z$$



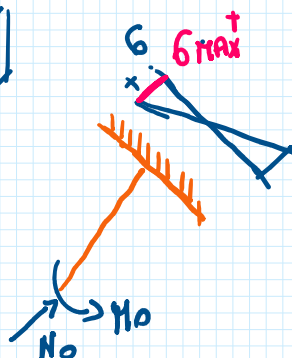
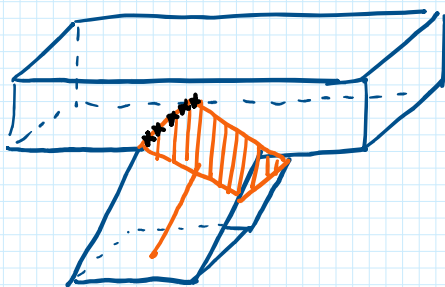
$$\Delta N_s'' = N_o \Rightarrow N_o = -\Delta N_s \frac{\sqrt{2}}{2}$$

$$N_o = -V \frac{\Delta z}{\Delta z} \frac{\sqrt{2}}{2}$$

$$M_o = \Delta N_s b = V \frac{\Delta z}{\Delta z} \left( d - x - \frac{\Delta z}{4} \right)$$

$$b = d - x - a = d - x - \frac{\Delta z}{4}$$

$$a = \Delta z \frac{\sqrt{2}}{2} \frac{1}{2} \frac{\sqrt{2}}{2} = \frac{\Delta z}{4}$$



$$G_{max} = \frac{1}{2} \tau$$