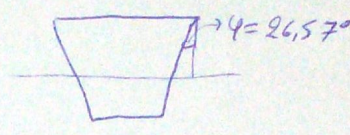


14-2015 κανονισμός Άσκηση

Τέπνομα αντοχίς = $\min(V_{Rds}, V_{Rdmax})$

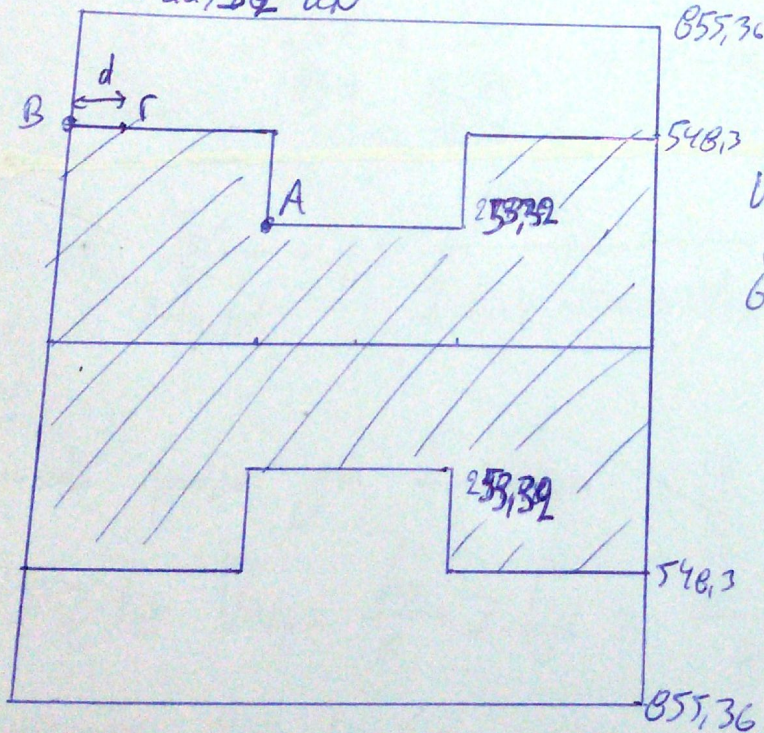
$V_{Rdmax} = b_w \cdot z \cdot V_i \cdot f_{cd} / 2 =$

$0,3 \cdot 0,9 \cdot 0,6 \cdot 0,6 \left(1 - \frac{30}{250}\right) \cdot \frac{30000}{1,5 \cdot 2} = 855,36 \text{ kN}$



$V_{RdsL} = 2 \cdot f_{yd} \cdot \left(\frac{A_{s1}}{s_1} + \frac{A_{s2}}{s_2} \right) = 0,9 \cdot 0,6 \cdot \frac{600000}{1,15} \left(\frac{11 \cdot 0,01^2}{4 \cdot 0,15} \cdot 2 + \frac{11 \cdot 0,008^2}{4 \cdot 0,1} \cdot 2 \cdot \cos 26,57^\circ \right)$
 $= 281739,13 \left(1,047 \cdot 10^{-3} + 4,495687 \cdot 10^{-4} \right) = 299,98 + 253,32 \text{ kN}$
 $= \underline{\underline{548,3 \text{ kN}}}$

$V_{Rds2} = 253,32 \text{ kN}$



υπόλοιπα za όλητα A, B.

όλεγοs 620 A:

$q_{1,25} = 253,32 \Rightarrow q_A = 202,6 \text{ kN/m}$

$q_{2,50} = 548,3 \Rightarrow q_B = 146,2 \text{ kN/m}$

$q = \min(q_A, q_B) = 146,2 \text{ kN/m}$

όλεγοs 620 r (napaia + d)

$548,3 = q_B \left(\frac{7,5}{2} - d \right) \Rightarrow q_B = 174,1 \text{ kN}$