

$$\frac{h}{8.2} = \frac{-0.5}{12.5}$$

$$h = -0.328$$

Max. shear at mid-span:

$$V_{max} = 142.4(0.5) + 35.6(0.328)$$

$$V_{max} = 82.88 \text{ kN}$$

3. CE Board Nov. 2019

Given:

$$A_s = 8 - 28 \text{ mm}\varnothing$$

$$A_s' = 4 - 28 \text{ mm}\varnothing$$

$$d_s = 12 \text{ mm diam. ties}$$

$$h_1 = 125 \text{ mm}$$

$$h_2 = 475 \text{ mm}$$

$$a = 55 \text{ mm}$$

$$f_c' = 28 \text{ MPa}$$

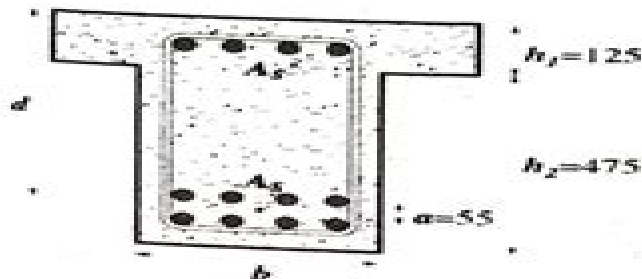
$$f_y = 415 \text{ MPa (longitudinal bars)}$$

$$f_y = 275 \text{ MPa (ties)}$$

$$\text{Shear strength reduction factor} = 0.75$$

$$\text{Clear concrete cover} = 40 \text{ mm}$$

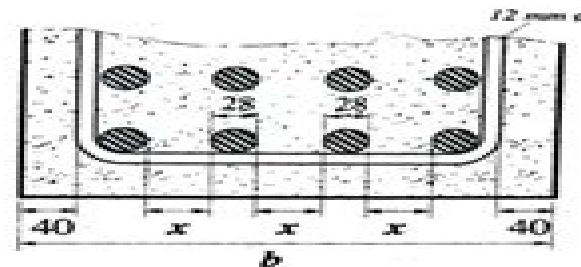
$$\text{Specified maximum aggregates size in the concrete mixture} = 20 \text{ mm}$$



- ① Find the minimum width of beam "b" required to satisfy on cover requirements
- ② Find the minimum width of beam "b" adequate for a factor shear force $V_u = 600 \text{ kN}$ if the spacing of 12 mm diameter ties is 50 mm.
- ③ If $V_u = 450 \text{ kN}$ and spacing of 12 mm diameter ties is 70 mm what is the required minimum width of the beam "b" mm?

Solution:

- ① Minimum width "b" required for cover requirements



Value of x : should be the larger value of the following.

- ① bar diameter = 28
 - ② 25 mm.
 - ③ $1 \frac{1}{3}$ max. aggregate size = $\frac{4}{3}(20) = 26.67$
use $x = 28 \text{ mm}$.
- $$b = 40(2) + 12(2) + 28(4) + 3(28) = 300 \text{ mm.}$$

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web mathematically it is computed using the following equation power work time or $p = \frac{w}{t}$ the standard metric unit of power is the watt as is implied by the equation for power a unit of power is equivalent to a unit of work divided by a unit of time thus a watt is equivalent to a joule second

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web 1 which of the following statements are true about work include all that apply work is a form of energy a watt is the standard metric unit of work units of work would be equivalent to a newton times a meter a $\text{kg m}^2 \text{s}^{-2}$ would be a unit of work work is a time based quantity it is dependent upon how fast a force displaces an object

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web answer a for any given situation the work done by a force can be calculated using the equation $w = f d \cos \theta$ where f is

the force doing the work d is the displacement of the object and θ is the angle between the force and the displacement
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