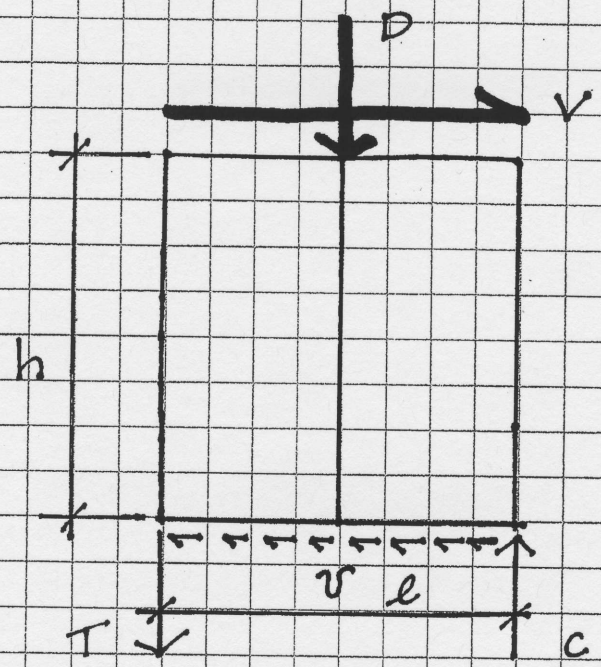


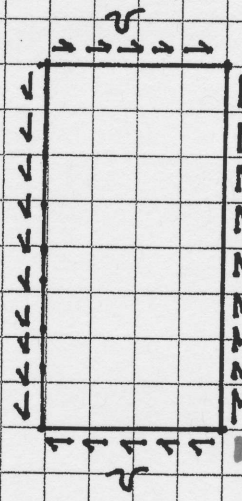
OTM = Vh

RM = $\frac{D\ell}{2}$

$$T = \frac{Vh - \frac{D\ell}{2}}{\ell} = \frac{Vh}{\ell} - \frac{D}{2} = vh - \frac{D}{2}$$

$v = V/\ell$

$$C = \frac{Vh + D\ell/2}{\ell} = vh + \frac{D}{2}$$



$$\frac{T+D}{h} = v + \frac{D}{2h}$$

$$C/h = v + \frac{D}{2h}$$

Take moment about this point.

Grid: 4x4 = 1"

Right-hand rule:

$$\underbrace{(v + D/2h)(h)}_{\text{magnitude}} \underbrace{(\ell/2)}_{\text{arm}} = \underbrace{(v\frac{\ell}{2})}_{\text{mag}} \underbrace{(h)}_{\text{arm}}$$

$$\frac{vh\ell}{2} + \frac{D\ell}{4} = \frac{vh\ell}{2}$$

$$\frac{D\ell}{4} \neq 0 \quad \text{Not in equilibrium.}$$

Also note that if $v = v_{tab}$, the vertical shear on panels is beyond design capacity as it is $v + D/2h$. In other words, even if it were in equilibrium, it would be overloaded.