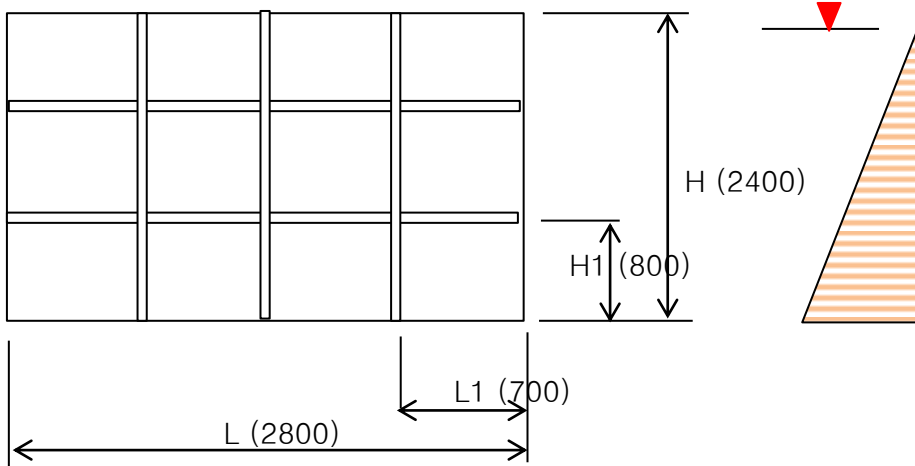


Roak's formulas Factor " $\alpha$ " in Rectangular Tank side plate calculation



A. MAX. ALLOWABLE DISTANCE BETWEEN STIFFENERS

$$L_{max} = 0.455 \cdot t_{min} \sqrt{(1/\alpha) \cdot (S / (0.036 \cdot G \cdot H \cdot L))} =$$

CASE 1,  $\alpha =$   $H/L1 = 2400/700 = 3.429$

CASE 2,  $\alpha =$   $H1/L1 = 800/700 = 1.143$

CASE 3,  $\alpha =$   $H/L = 2400/2800 = 0.857$