

Wind: 13 m/s $\rightarrow 7 \text{ m/s}$ \rightarrow trace of wind: $18/2 = 9 \text{ m}$

$Q_{\text{wind}} = 13 \times 7 \times 0,05 \times 0,87 = 67,5 \text{ g/m}^2$

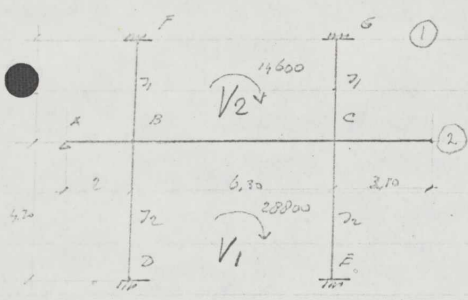
$W_{\text{total}} = 13,7 \times 67,5 \times 7 \times \frac{15,5}{18} + 12 \times 67,5 \times 11 \times \frac{5,5}{18} = 8000 \text{ g}$ $S = 7 \text{ m}$

$W = -1140 \text{ g}$

$M_w (\text{dub. - 2. and.}) = 1140 \times 2 \times 3,20 = 7100 \text{ g/m} = 25 \times 63$

$M_w (\text{2. and. - 1. and.}) = 1140 \times 4 \times 3,20 = 14600 \text{ g/m} = 42 \times 63 = V_2$

$M_w (\text{1. and. - korp.}) = 1140 \times 6 \times 4,20 = 28800 \text{ g/m} = 62 \times 63 = V_1$



$S = \frac{M_1 L_1^2}{6EI_1} = \frac{M_2 L_2^2}{6EI_2}$ $\text{Steel } M_1 = 100 \text{ g/m}$

Varj: $\begin{cases} V_{2-0} + x V_{2-1} + y V_{2-2} = V_2 \\ V_{1-0} + x V_{1-1} + y V_{1-2} = V_1 \end{cases}$

By wind: $\begin{cases} V_2 = 14600 \text{ g/m}, V_1 = 28800 \text{ g/m} \\ V_{2-0} = 0 \text{ m}, V_{1-0} = 0 \end{cases}$

$V_{1-2} = +80 + 90 + 68 + 84 = +322 \text{ g/m}$

$V_{2-2} = -25 - 13 - 40 - 20 = -98 \text{ g/m}$

$V_{1-1} = -20 - 20 - 32 - 16 = -78 \text{ g/m}$

$V_{2-1} = +75 + 87 + 160 + 80 = +302 \text{ g/m}$

Varj: $+302 X - 98 Y = +14600$

$-78 X + 322 Y = +28800$

$-302 X + 1240 Y = +111000 \quad (3,25)$

$0 + 1142 Y = +125600$

$Y = 110$

$+302 X - 10750 = 14600$

$X = \frac{25350}{302} = 84 = X$

