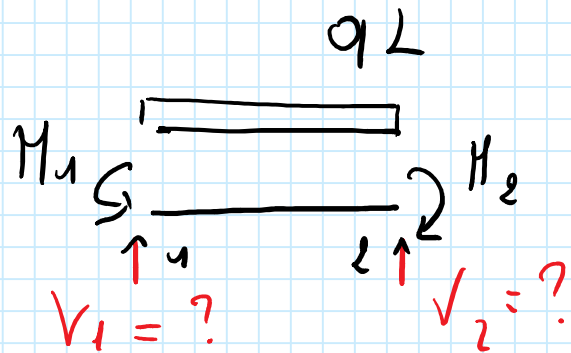
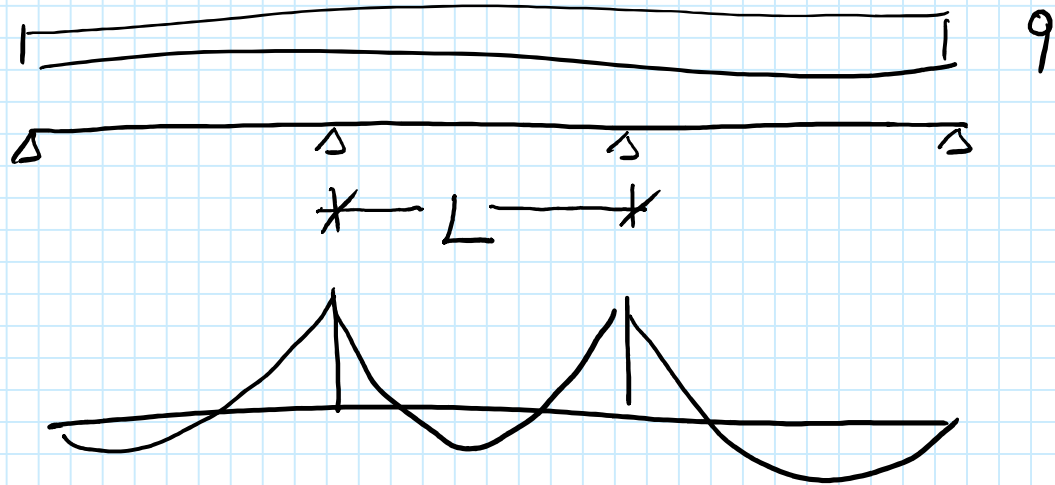
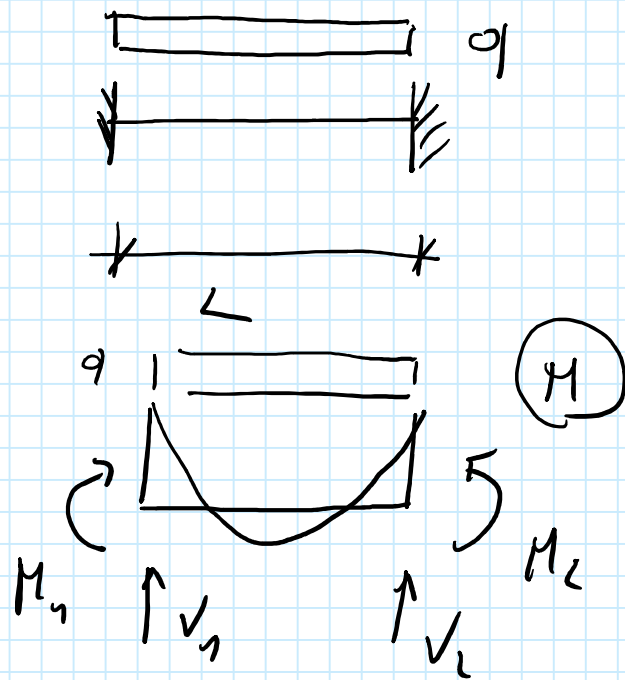


Coefficienti di continuità



Comunque riferisce il cerchio che agisce sulle compede

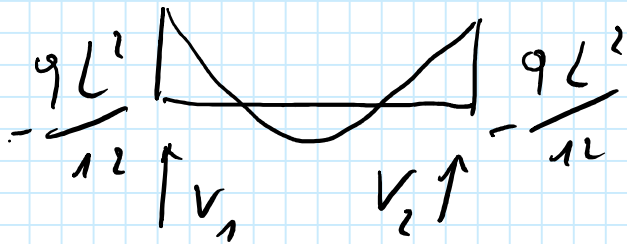
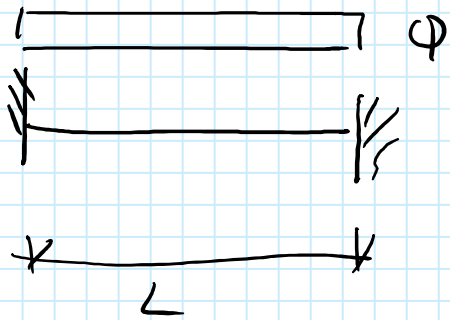


$$-V_1 L + q \frac{L^2}{2} + M_2 - M_1 = 0$$

$$V_1 = \frac{qL}{2} + \frac{M_2 - M_1}{L}$$

$$V_2 L - \frac{qL^2}{2} + M_2 - M_1 = 0$$

$$V_2 = \frac{qL}{2} - \frac{M_2 - M_1}{L}$$



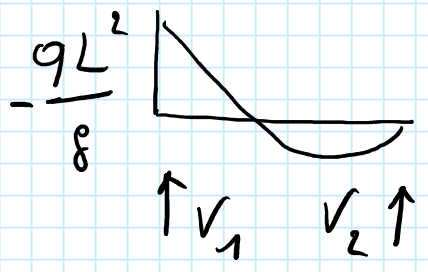
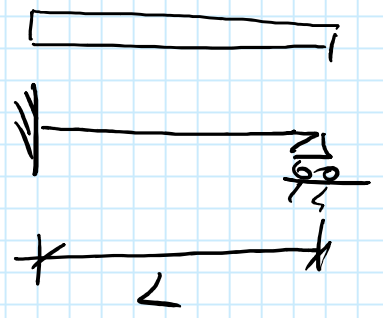
$$M_1 = -\frac{qL^2}{12}$$

$$M_2 = -\frac{qL^2}{12}$$

$$V_1 = \frac{qL}{2} + \frac{-\frac{qL^2}{12} + \frac{qL^2}{12}}{L} = \frac{qL}{2}$$

$$V_2 = \frac{qL}{2} - \frac{-\frac{qL^2}{12} + \frac{qL^2}{12}}{L} = \frac{qL}{2}$$

9



$$V_1 = \frac{9L}{2} + \frac{0 + \frac{9L^2}{8}}{\Delta} = \frac{9L}{2} + \frac{1}{4} \frac{9L}{2} = 1,25 \frac{9L}{2}$$

$$V_2 = \frac{9L}{2} - \frac{0 + \frac{9L^2}{8}}{\Delta} = \frac{9L}{2} - \frac{1}{4} \frac{9L}{2} = 0,75 \frac{9L}{2}$$

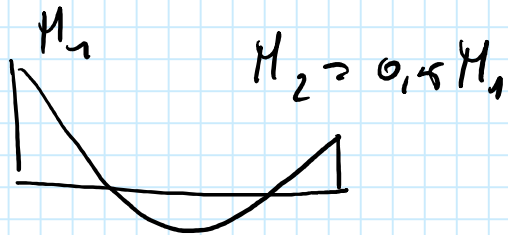


$$V_1 = \frac{1,25}{1,20} \frac{qL}{2}$$

$$\alpha_1 = 1,20$$

$$V_2 = \frac{0,75}{0,80} \frac{qL}{2}$$

$$\alpha_2 = 1,0$$

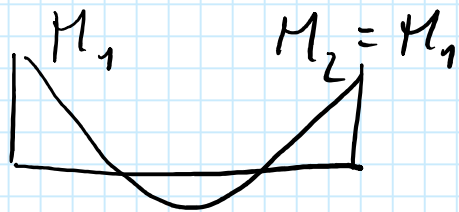


$$V_1 = 1,1 \frac{qL}{2}$$

$$\alpha_1 = 1,1$$

$$V_2 = 0,9 \frac{qL}{2}$$

$$\alpha_2 = 1,0$$



$$V_1 = \frac{qL}{2}$$

$$\alpha_1 = 1,0$$

$$V_2 = \frac{qL}{2}$$

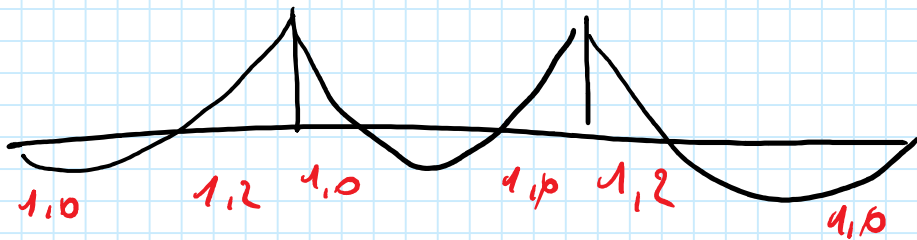
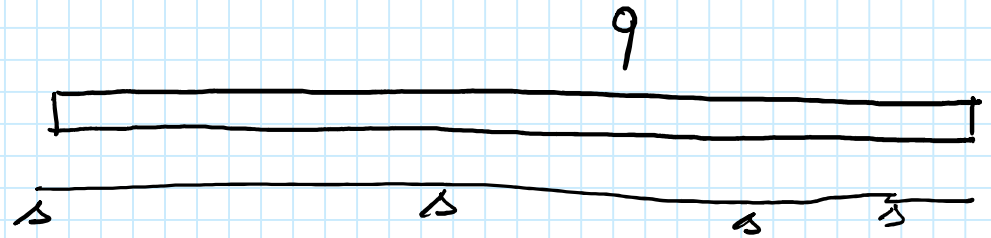
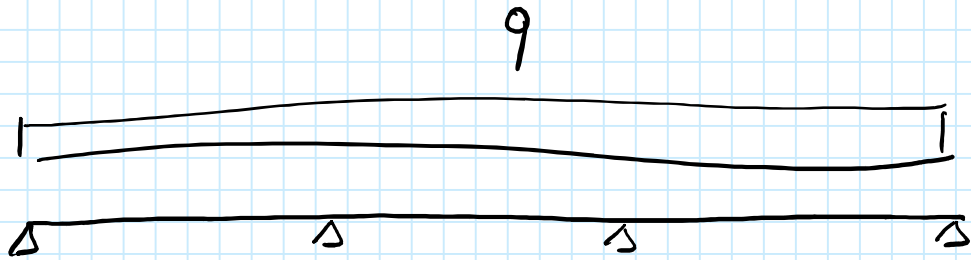
$$\alpha_2 = 1,0$$

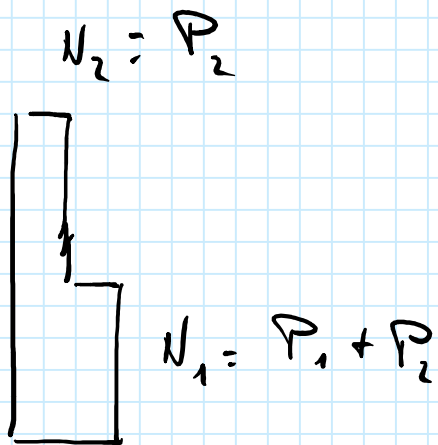


$$V_1 = \alpha_1 \frac{qL}{2}$$

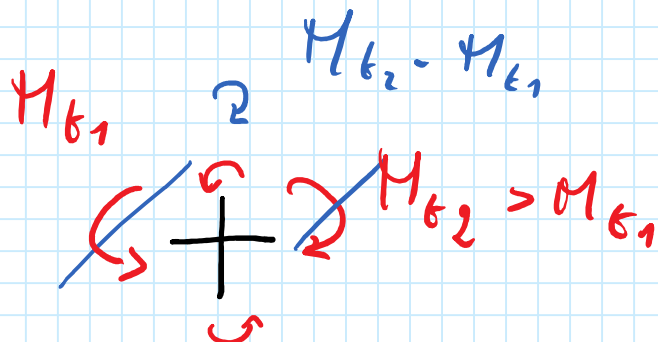
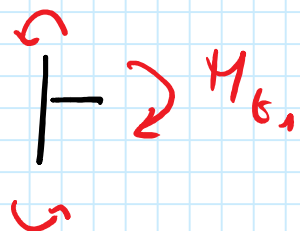
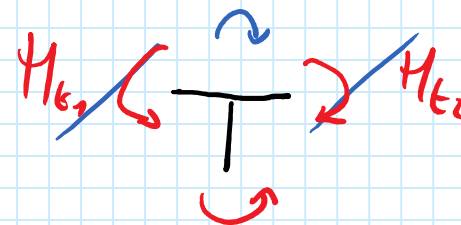
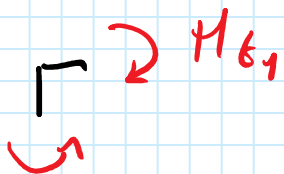
$$V_2 = \alpha_2 \frac{qL}{2}$$

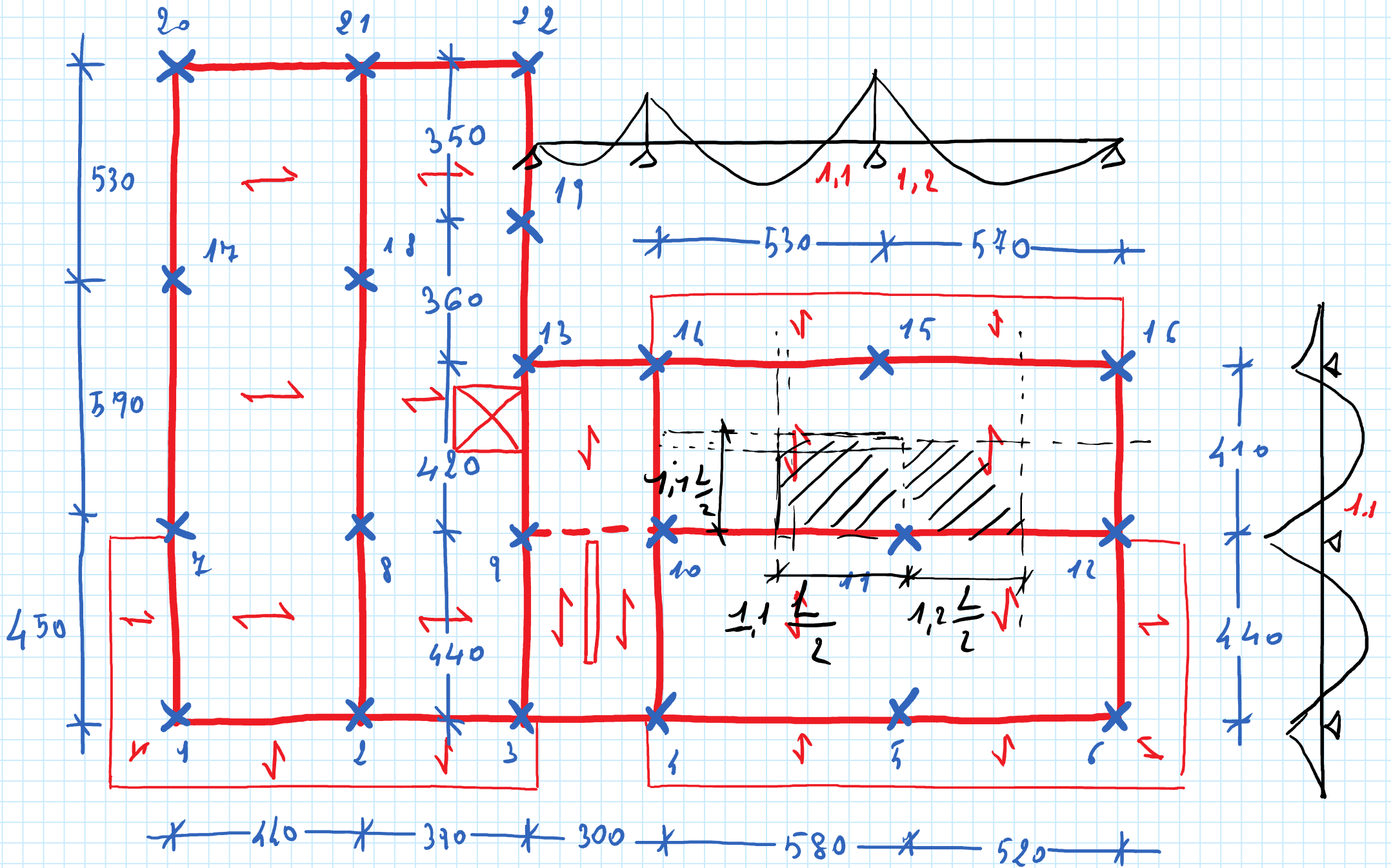
"Ipotetica" in base all'esperienza un disegno dei momenti plausibile e "stimo" i coefficienti di continuità

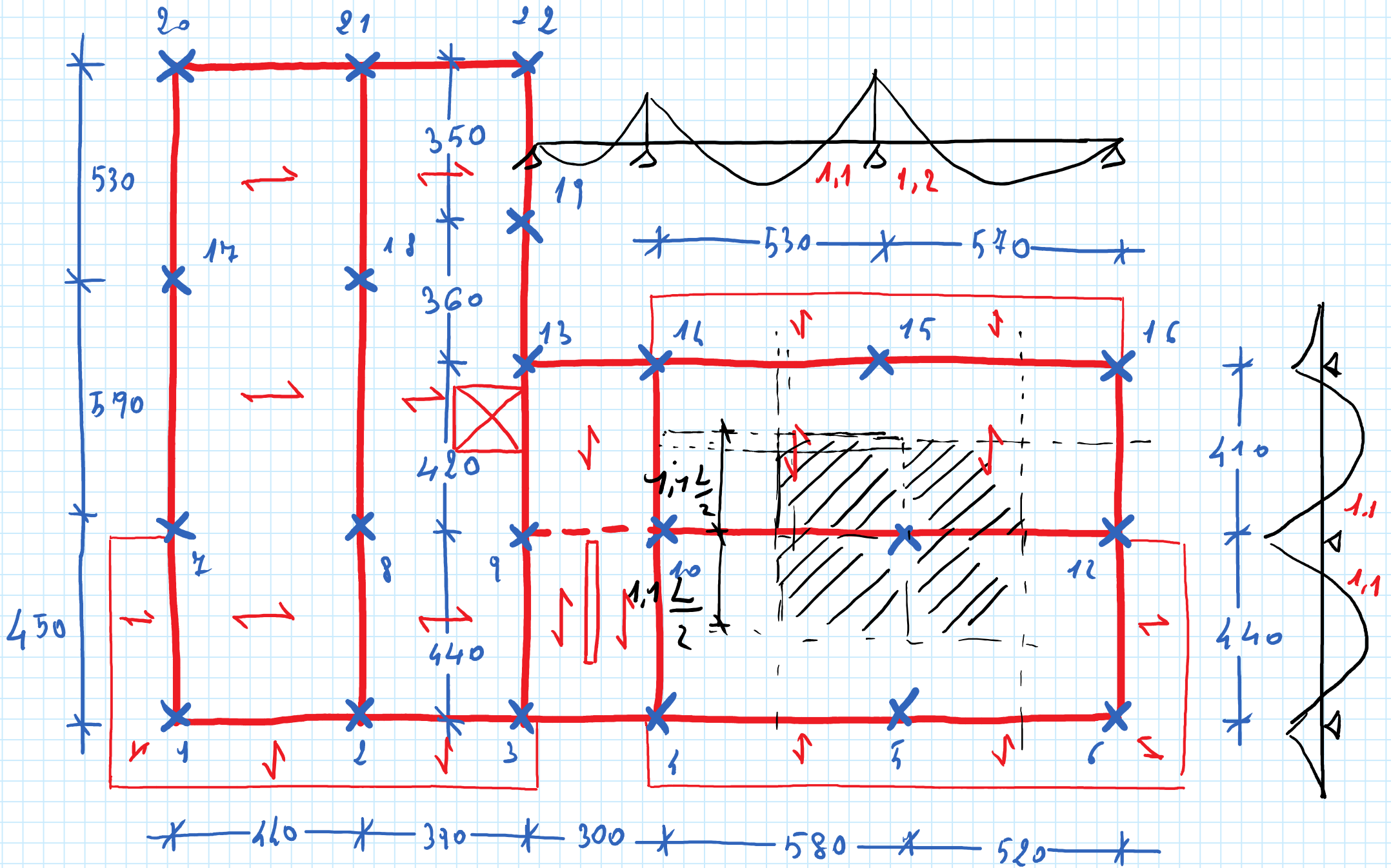




Bisogna conoscere anche i momenti; trasmessi dalle travi?







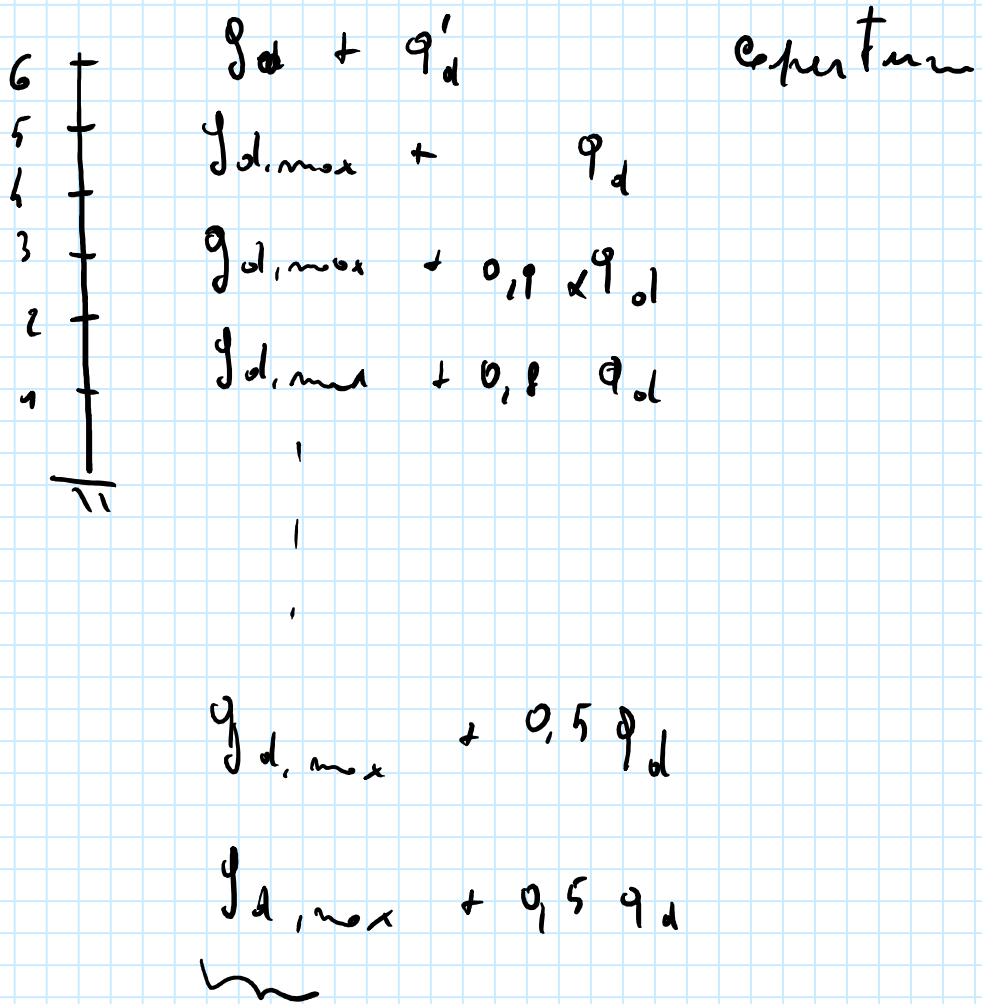
Pileta n. 11

Solario

A_i (m²)

$$\begin{aligned} & \left(1,1 \times \frac{5,8}{2}\right) \times \left(1,1 \times \frac{4,10}{2}\right) + \left(1,2 \times \frac{5,2}{2}\right) \left(1,1 \times \frac{4,40}{2}\right) + \\ & + \left(1,1 \times \frac{5,8}{2}\right) \times \left(1,1 \times \frac{4,40}{2}\right) + \left(1,2 \times \frac{5,2}{2}\right) \times \left(1,1 \times \frac{4,40}{2}\right) = \\ & = 29,69 \text{ m}^2 \end{aligned}$$

$$A_i \times (q_{d, \text{mors}} + q_{d, \text{mol.}}) = 29,69 \times 11,01 = 326,7 \text{ kN}$$



Peso medio del zócalo

$$\frac{q_d + 5 \times q_{d,max}}{6} = \frac{6,89 + 5 \times 8,69}{6} = 8,39 \text{ kN/m}^2$$

$$\frac{q_d' + q_d + 0,9 q_d + 0,8 q_d + 0,7 q_d + 0,6 q_d}{6} =$$

$$= \frac{q_d' + (1 + 0,9 + 0,8 + 0,7 + 0,6) q_d}{6}$$

$$= \frac{3,71 + (1 + 0,9 + 0,8 + 0,7 + 0,6) 3,00}{6} = 2,62 \text{ kN/m}^2$$

$$q_{medio} + q_{d,medio} = 8,39 + 2,62 = 11,01 \text{ kN/m}^2$$

Trem (30 x 60)

L_i

$$\frac{1,1 \times 5,8}{2} + \frac{1,2 \times 5,20}{2} = 6,31 \text{ m}$$

$$Q_d = 4,72 \text{ kW/m}$$

$$Q_d \times L_i = 4,72 \times 6,31 = 29,8 \text{ kN}$$

Pilestn m. 11

Sobrio

$$P: \quad 321,7 \text{ KN}$$

Tron 30x60

$$29,8 \text{ KN}$$

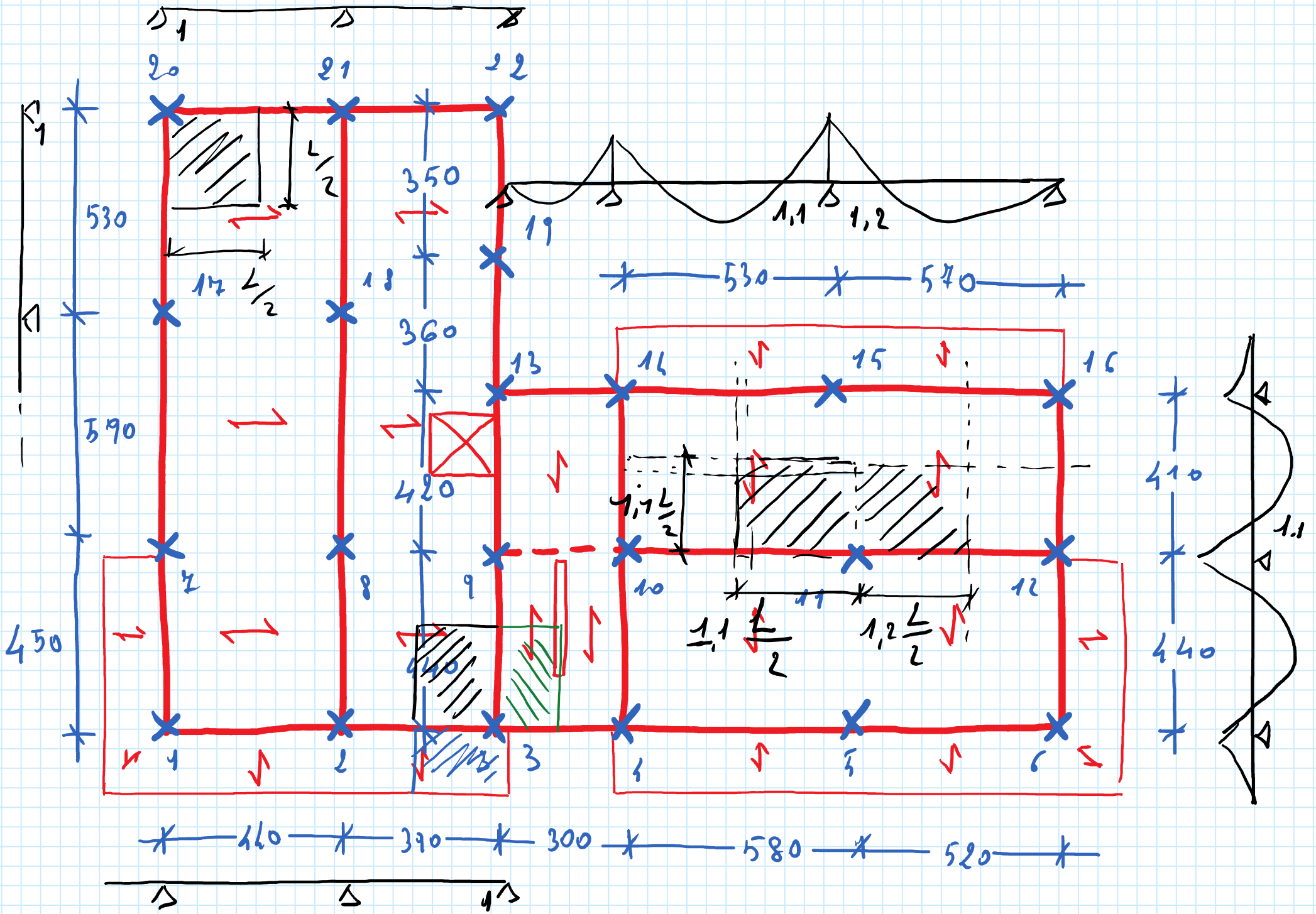
$$354,5 \text{ KN}$$

Pilestn $\frac{N}{100} P_i$

$$\frac{6}{100} \times 354,5 =$$

$$21,3 \text{ KN}$$

$$375,8 \text{ KN}$$



Pilastro m. 20

A_i (m²)

Soleno

$$1 \times \frac{4,40}{2} \times 1 \times \frac{5,30}{2} + 0,15 \times \frac{4,40}{2} +$$
$$+ 0,15 \times \frac{5,30}{2} = 12,39 \text{ m}^2$$

$$A_i \times (g_{d,mors} + g_{d,mol...}) = 12,39 \times 11,01 = 136,4 \text{ kN}$$

Trave L_i (m)

$$1 \times \frac{4,4}{2} + 1 \times \frac{5,3}{2} = 4,85 \text{ m}$$

$$G_d \times L_i = 4,72 \times 4,85 = 22,9 \text{ kN}$$

Temperature

$$1 \times \frac{4,4}{2} + 1 \times \frac{5,3}{2} = 4,85 \text{ m}$$

$$G_d \times L_i = 6,75 \times 4,85 = 32,7 \text{ kN}$$

Pilestn n. 20

Sobrio

$$P_i$$
$$136,4 \text{ kN}$$

Torre 30x60

$$22,9 \text{ kN}$$

Temperatura

$$32,7 \text{ kN}$$

$$192,0 \text{ kN}$$

$$P_{\text{pilestn}} \frac{N}{100} P_i = \frac{6}{100} \times 192,0 = 11,5 \text{ kN}$$

$$203,5 \text{ kN}$$

Pilastro m. 3

$$A_i \text{ (m}^2\text{)}$$

Solario

$$1,0 \times \frac{3,90}{2} \times 1 \times \frac{4,50}{2} = 5,17 \text{ m}^2$$

$$A_i \times (g_d, \text{medio} + q_{d, \text{mol...}}) = 5,17 \times 11,01 = 56,9 \text{ kN}$$

$$A_i \text{ (m}^2\text{)}$$

Balcone

$$1,0 \times \frac{3,90}{2} \times 1,65 = 3,22 \text{ m}^2$$

$$A_i \times (g_d + q_{d, \text{mol...}}) = 3,22 \times 12,48 = 40,2 \text{ kN}$$

Peso medio del balcón

$$\frac{q_d + q_d + 0,9 q_d + 0,8 q_d + 0,7 q_d + 0,6 q_d}{6} =$$

$$= \frac{(1 + 1 + 0,9 + 0,8 + 0,7 + 0,6) \times 6,71}{6} = 5,59 \text{ kN/m}^2$$

$$q_d + q_{d\text{ medio}} = 6,89 + 5,59 = 12,48 \text{ kN/m}^2$$

Peso medio delle scale

$$\frac{q_d + q_d + 0,9 q_d + 0,8 q_d + 0,7 q_d + 0,6 q_d}{6} =$$

$$= \frac{(1 + 1 + 0,9 + 0,8 + 0,7 + 0,6) \times 6,00}{6} = 5,00 \text{ kN/m}^2$$

$$q_{dl} + q_{d\text{media}} = 9,00 + 5,00 = 14,00 \text{ kN/m}^2$$

Scale $1,0 \times \frac{4,5}{2} \times 1 \times \frac{3,0}{2} = 3,38 \text{ m}^2$

$$A_i \times (g_d + q_{d, \text{mol.}}) = 3,38 \times 14,0 = 47,3 \text{ kN}$$

Tram $L_i \text{ (m)}$

$$1,0 \times \frac{3,90}{2} + 1,0 \times \frac{3,0}{2} + 1 \times \frac{4,5}{2} = 5,70 \text{ m}$$

$$G_d \times L_i = 4,72 \times 5,70 = 26,9 \text{ kN}$$

Temperature $L_i \text{ (m)}$

$$1,0 \times \frac{3,90}{2} + 1,0 \times \frac{3,0}{2} + 1 \times \frac{4,5}{2} = 5,70 \text{ m}$$

$$G_d \times L_i = 6,75 \times 5,70 = 38,5 \text{ kN}$$

Pilestn m. 3

Solbio

P:
56,9 kN

Balona

40,2 kN

Seale

47,3 kN

Taru 30x60

26,9 kN

Tempometure

38,5 kN

209,8 kN

Pilestn $\frac{N}{100} P_i$

$$\frac{6}{100} \times 209,8 =$$

12,6 kN

222,4 kN