

BOUWPLAN:

Woning te Deurne

ARCHITECT:

TOEGEPAST IS HET NEHOBO-BEKISTING-SYSTEEM

IDEAAL
MONTAGE

$$\bar{\sigma}_s = \bar{\sigma}_b = 1200/60$$

VLOERDIKTE: 12.5 cm

BELASTINGEN:

Nutt. belast. e.g. + afw.	200 kg/m ² 210 "	kg/m ² "	kg/m ² "	kg/m ² "
TOTAAL	410 "	"	"	"

Vak 1.

lt = 3.00 m

$$M = \frac{1}{8} \cdot 410 \cdot 3.00^2 = 490 \text{ kgm} \quad 2/10 + 2/12$$

Vak 2

lt = 1.68 m

$$M = \frac{1}{8} \cdot 410 \cdot 1.68^2 = 145 \text{ kgm} \quad 5/6$$

Vak 3-4-5 praktische wap 5/6.

Vak 6

lt = 2.29 m

$$M = \frac{1}{12} \cdot 410 \cdot 2.29^2 = 180 \text{ kgm} \quad 3/6 + 2/8$$

Vak 7

lt = 1.97 m

$$P_{\text{spant}} = \frac{1}{4} \cdot 7.75 \cdot 410 \cdot 1.30 = 600 \text{ kg}$$

$$M = \frac{1}{8} \cdot 410 \cdot 1.97^2 + \frac{1}{4} \cdot 600 \cdot 1.97 = 200 + 335 = 535 \text{ kgm} \quad \text{max } 5/10$$

$$M_{\text{c}} = \frac{5}{6} \cdot 535 = 445 \text{ kgm} \quad 3/10 + 2/12$$

Vak 8

lt = 2.19 m

$$w_{\text{land}} = 0.11 \cdot 1800 \cdot 2.40 \cdot 1.00 / 9.80 \cdot 2.11 = 565 \text{ kgm}^2$$

$$M = \frac{1}{8} \cdot (410 + 565) \cdot 2.19^2 = 585 \text{ kgm} \quad 5/12 + 5/14 + 4/0$$

Vak 9

lt = 2.19 m

$$M = \frac{1}{8} \cdot 410 \cdot 2.19^2 = 245 \text{ kgm} \quad 5/8$$

Vak 10-11

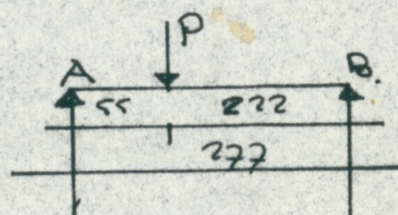
lt = 2.77 m

$$P_{\text{spant}} = 600 \text{ kg}$$

$$R_b = \frac{55}{277} \cdot 600 + \frac{1}{2} \cdot 410 \cdot 2.77 =$$

$$175 + 565 = 700 \text{ kg}$$

$$M_{\text{max op } 700/410 = 1.72 \text{ m uit B.}}$$



Vak 10-11. $M = \frac{1}{2} \cdot 700 \cdot 1.72 = 605 \text{ kgm}$ $\cancel{5/12} + \cancel{5/12} = 10$
 $M = \frac{5}{6} \cdot 605 = 505 \text{ kgm}$ $\cancel{5/10} + \cancel{2/12}$ boven
 onder $\cancel{5/12}$.

Vak 12 $M = \frac{1}{8} \cdot 410 \cdot 2.77^2 = 395 \text{ kgm}$ $\cancel{5/10}$

It = 2.77 m

Vak 13.

It = 2.77 m

Vak 14

It = 2.77 m

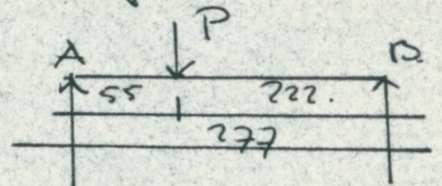
$M = \frac{1}{10} \cdot 410 \cdot 2.77^2 = 315 \text{ kgm}$ $\cancel{2/8} + \cancel{2/10}$

P. spant. $\frac{1}{4} \cdot 7.80 \cdot 7.10 \cdot 120 = 600 \text{ kg}$
 3.100

$R_b = \frac{55}{277} \cdot 600 + \frac{1}{2} \cdot 410 \cdot 2.77 =$
 $120 + 565 = 685 \text{ kg}$

$M_{\text{max op } 685/} = 1.67 \text{ m uit B.}$

$M = \frac{1}{2} \cdot 685 \cdot 1.67 \cdot \frac{5}{6} = 475 \text{ kgm}$ $\cancel{2/10} + \cancel{2/12}$



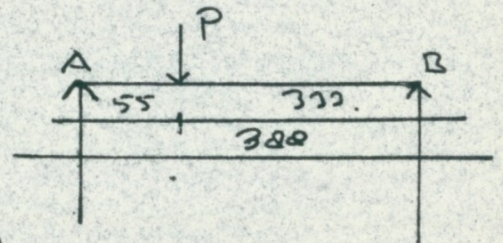
Vak 15 P. spant = 600 kg.

It = 3.88 m

$R_b = \frac{55}{388} \cdot 600 + \frac{1}{2} \cdot 410 \cdot 3.88 =$
 $85 + 800 = 885 \text{ kg}$

$M_{\text{max op } 885/} = 2.15 \text{ m uit B}$

$M = \frac{1}{2} \cdot 885 \cdot 2.15 = 950 \text{ kgm}$ $\cancel{3/14} + \cancel{2/16}$



Vak 16 $M = \frac{1}{8} \cdot 410 \cdot 3.88^2 = 770 \text{ kgm}$

It = 3.88 m

Vak 17-18-19. P. spant = 600 kg.

It = 3.28 m

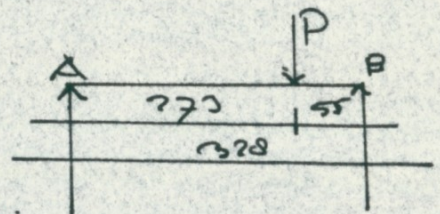
$R_o = \frac{55}{328} \cdot 600 + \frac{1}{2} \cdot 410 \cdot 3.28 = 105 + 675 = 780 \text{ kg}$

$M_{\text{max op } 780/} = 1.90 \text{ m uit A.}$

$M = \frac{1}{2} \cdot 780 \cdot 1.90 = 740 \text{ kgm}$ $\cancel{5/14}$

pos $M = \frac{5}{6} \cdot 740 = 615 \text{ kgm}$ $\cancel{2/12} + \cancel{2/14}$

neg $M = 740 \text{ kgm}$ $\cancel{2/12} + \cancel{2/14}$



Vak 20-21

It = 3.28 m

$M = \frac{1}{10} \cdot 410 \cdot 3.28^2 = 440 \text{ kgm}$ $\cancel{2/10} + \cancel{2/12}$

neg $M = \frac{1}{8} \cdot 410 \cdot 3.28^2 = 550 \text{ kgm}$ $\cancel{2/10} + \cancel{2/12}$

$M = 550 \text{ kgm}$ $\cancel{5/12}$

$M = \frac{1}{10} \cdot 410 \cdot 3.88^2 = 620 \text{ kgm}$ $\cancel{2/12} + \cancel{2/14}$

neg $M = 770 \text{ kgm}$ $\cancel{2/12} + \cancel{2/14}$

Vak 13 A

It = 3.88 m