

# **Gemeente Heemskerk**

A.W. Grootestraat 2 - 4

Bouw dubbel woonhuis



\*1967-020\*

Hr. J.W. Pamp.doorsnede 1.

$$\begin{aligned} \text{dak} & 1,25 \times 2,56 \times 125 \text{ kgf} = 400 \text{ kgf/m}^2 \\ \text{zolder} & 1 \times 2,56 \times 275 \text{ kgf} = 704 \text{ kgf/m}^2 \\ \text{oerel.} & 1 \times 2,56 \times 275 \text{ kgf} \times \frac{1}{10} = 640 \text{ kgf/m}^2 \\ \text{beg. gr.} & 1 \times 2,56 \times 240 \text{ kgf} \times \frac{8}{10} = 1920 \text{ kgf/m}^2 \\ \text{muur} & 1 \times 7,6 \times 400 \text{ kgf} = 3040 \text{ kgf/m}^2 \\ \text{fond.} & 1 \times 0,1 \times 2400 \text{ kgf} = \underline{240 \text{ kgf/m}^2} \\ & \underline{\underline{5514 \text{ kgf/m}^2}} \end{aligned}$$

B = 100 cm.

$$\begin{aligned} \text{gem. gronddruk} & 0,55 \text{ kgf/cm}^2 \\ m & = 100 \times 50 \times 5,5 \times 0,25 = 6750 \text{ kgf/m}^2 \\ m & = 6750 \text{ kgf/m}^2 \quad h = 10 - 2 - 0,5 = 7,5 \text{ cm} \\ \sqrt{m} & = 16,2 \quad k_f = 7,5 : 16,2 = 0,467 \\ \omega & = 1,02 \\ A & = 1,02 \times 1 \times 7,5 = 7,65 \text{ cm}^2 = \underline{\underline{d_{10} - 10}} \\ v.w & = 20\% \text{ o.m. } 7,65 = 1,53 \text{ cm}^2 \\ \text{noem} & \underline{\underline{d_{8-20}}} \end{aligned}$$

doorsnede 2.

$$\begin{aligned} \text{dak} & 1,25 \times 3,45 \times 125 \text{ kgf} = 537 \text{ kgf/m}^2 \\ \text{zolder.} & 1 \times 3,45 \times 275 \text{ kgf.} = 950. " \\ \text{oerel.} & 1 \times 3,45 \times 275 \text{ kgf} \times \frac{1}{10} = 885. " \\ \text{beg. gr.} & 1 \times 3,45 \times 240 \text{ kgf} \times \frac{8}{10} = 760 " \\ \text{muur.} & 1 \times 7,6 \times 100 \text{ kgf.} = 1520 " \\ \text{fond.} & 1 \times 0,6 \times 0,1 \times 2400 \text{ kgf.} = \underline{144} " \\ & \underline{\underline{3296 \text{ kgf/m}^2}} \end{aligned}$$

B = 60 cm.doorsnede 3.

$$\begin{aligned} \text{dak.} & 1 \times 1,25 \times 1,85 \times 125 \text{ kgf.} = 287 \text{ kgf/m}^2 \\ \text{zolder} & 1 \times 1,85 \times 275 \text{ kgf.} = 508 " \\ \text{oerel.} & 1 \times 1,85 \times 275 \text{ kgf} \times \frac{1}{10} = 157 " \\ \text{beg. gr.} & 1 \times 1,85 \times 240 \text{ kgf} \times \frac{8}{10} = 377 " \\ \text{muur} & 1 \times 7,6 \times 400 \text{ kgf} = 3040 " \\ \text{fond.} & 1 \times 0,9 \times 0,1 \times 2400 \text{ kgf.} = \underline{916} " \\ & \underline{\underline{4886 \text{ kgf/m}^2}} \end{aligned}$$

B = 90 cm.

$$\begin{aligned} m & = 100 \times 30 \times 0,55 \times 0,15 = 250 \text{ kgf/m}^2 \\ h & = 7,5 \text{ cm} \quad \sqrt{m} = 15,8 \\ k_f & = 7,5 : 15,8 = 0,475 \\ \omega & = 0,35 \\ A & = 0,35 \times 1 \times 7,5 = 2,63 \text{ cm}^2 \\ \text{dos. h.w.} & \underline{\underline{d_{8-19}}} \\ v.w & \underline{\underline{d_{8-20}}} \end{aligned}$$

$$\begin{aligned} M & = 90 \times 45 \times 0,55 \times 9,815 = 607 \text{ kgf/m}^2 \\ h & = 7,5 \text{ cm} \quad \sqrt{m} = 24,6 \\ k_f & = 7,5 : 24,6 = 0,31 \\ \omega & = 0,038 \\ A & = 0,838 \times 1 \times 7,5 = 6,28 \text{ cm}^2 \\ \text{dos. h.w.} & \underline{\underline{d_{10-12.5}}} \\ v.w & \underline{\underline{d_{8-20}}} \end{aligned}$$

Archief Bouw- en Woningtoezicht  
Gemeente Heemskerk



## deursteek 4 - 5.

$$\text{dak.} \quad 0,625 \times 6,50 \times 125 \text{ kgf} = 500 \text{ kgf.}$$

$$\text{muren} \quad 5,6 \times 6,50 \times 400 \text{ kgf} = 16560 \text{ kgf.}$$

15080 kgf.

opp. kozijnen  $12,3 \text{ m}^2$ .

$$- \text{af daks } 12,3 \times 350 \text{ kgf}$$

4305 kgf.

10775 kgf.

1660 kgf/m'

96 kgf/m'

1756 kgf/m'

$$B = 35 \text{ cm.}$$

onder kozijnen van  $1,6 \text{ m}'$ . fundaerings 35 breed en  $1,8 \text{ m}'$  lang  
balk loopen niet boven  $\varnothing 10$  en onder oppij  $\varnothing 8$   
open bouwels  $\varnothing 8-20$ .

restant 45 breed.

$$m = 15 \times 22,5 \times 0,55 \times 0,115 = 175 \text{ kgf/m}$$

$$h = 7,5 \text{ cm} \quad Dm = 13,2 \text{ cm}$$

$$k_f = 7,5 : 13,2 = 0,57. \quad \omega = 0,308.$$

$$A = 0,308 \times 1 \times 7,5 = 2,31 \text{ cm}^2 = \underline{\varnothing 8-20} \quad \text{v. w. } \underline{\varnothing 8-20}$$

## Stalen balk.

steunpunt afstand  $1,8 \text{ m}$

$q = 900 \text{ kgf/m}' + 20 \text{ kgf/m}'$  eindengewicht.

$$m = \frac{1}{8} \times 920 \times 1,8^2 = 375 \text{ kgf/m}$$

$$W = 37500 : 1400 = 27 \text{ cm}^2 = \text{N.P. 10.}$$

doorboring  $\varnothing 600$

$$\varphi = 920 \times 1,8 = 1650 \text{ kgf is } 1,65 \text{ ton.}$$

$$Z = 39 \times 1,65 \times 1,8^2 = 207 \text{ is } \underline{\text{N.R. 12.}} \quad \underline{\text{DIN 10}}$$

pijplegeloer.

dik 12 cm.

steunpuntafstand 180

breed 180.

gewicht separatieis 100 kg/m<sup>2</sup>.totale belasting is  $3,8 \times 1,8 \times 400 \text{ kg} = 3580 \text{ kg}$ 

$$\begin{array}{rcl} \text{separatieis} & & \\ \times 1,8 \times 100 & = & 1500 \text{ kg} \\ \hline & & 3860 \text{ kg} \end{array}$$

$$\text{per meter breedte } \frac{3860}{1,8} = \underline{\underline{2190 \text{ kg}}}$$

$$m = \frac{1}{12} \times 2190 \times 3,8 = 1290 \text{ kg/m}$$

$$h = 18 - 1 - 0,7 = 10,3 \text{ cm}$$

$$U_m = 35,9 \quad k_h = 10,3 : 35,9 = 0,288 \quad \omega = 1,01$$

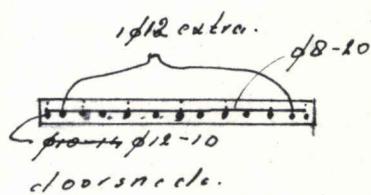
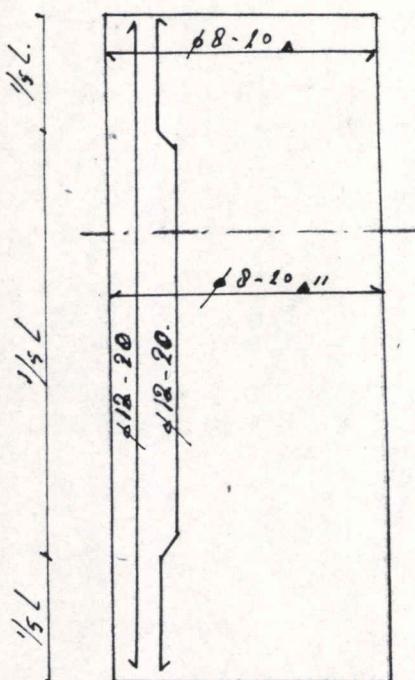
$$A = 1,01 \times 1 \times 10,3 = 10,4 \text{ cm}^2$$

$$b.w = \underline{\underline{\phi 12-10}}$$

$$\text{voor ophogging } \frac{1}{12} \times 10,4 = 0,83 \text{ cm}$$

neem om de ander ophogboogen.

$$b.w 10\% \text{ van } 10,4 = 1,1 \text{ cm}^2 \text{ is } \underline{\underline{\phi 8-10}}.$$



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