

Verbouw D.W. Groothuisland 2.
i.n.v. de heer J. D. Gaap.

Salen balk van Lussenmuis naar achterend.

$$l = 2,7 + 0,15 = 2,91 \text{ m!}$$

$$\text{kops} \quad 6,50/2 \times (90+50) = 455 \text{ kgf}$$

$$\text{zoldr} \quad 6,50/2 \times 210 = 682,5$$

$$\text{verd.} \quad 6,50/2 \times 210 = 682,5$$

$$\text{mits} \quad 4,50 \times 200 = 900$$

o.p.

$$\underline{25}$$
$$2745 \text{ kgf / m!}$$

Behoort bij besluit van
~~de Raad~~ van Heemskerk
B. en W.
dd. 21 SEP. 1976 no. 177
Mij bekend.
De Secretaris van Heemskerk,

$$I \text{ len.} = 27,8 \times 2,745 \times 2,91^3 = 1677,54 \text{ cm}^3 \rightarrow \underline{IPE 20} = 1940 \text{ cm}^3$$

Opstelling op kolom. ENP 12.

$$F \text{ opstelling} = 2,91/2 \times 2745 = 3788 \text{ kgf.}$$

$$i \text{ min. ENP 12} = 1,59.$$

$$\lambda = \frac{l}{i} = \frac{250}{1,59} = 157 \rightarrow \sigma = 0,172 \rightarrow E = 240 \text{ kgf/cm}^2$$

$$F = \frac{P}{E} = \frac{3788}{240} = 15,78 \text{ cm}^2 \rightarrow \underline{\text{ENP 12}} = 17 \text{ cm}^2$$

Grondbalk op fundering, loop 55-6 = 49 cm.

$$\text{breed } 2 \times 12 \text{ cm} = 24 \text{ cm.}$$

$$N = \frac{1}{3} \times 2745 \times 2,9^2 = 2885 \text{ kgm.}$$

$$k = \frac{N}{b} = \frac{49}{\sqrt{2885/0,24}} = 0,447$$

$$\sigma_0 = 0,375 + \frac{1}{21} \times 0,250 = 0,91$$

$$A = 3,91 \times 0,24 \times 49 = 4,60 \text{ cm}^2 = 2 \phi 17 + 2 \phi 10 \text{ GR 27.}$$