

Gemeente Heemskerk

A.W. Grootestraat 8

Vergroten dakkapel



2000-490

00-490

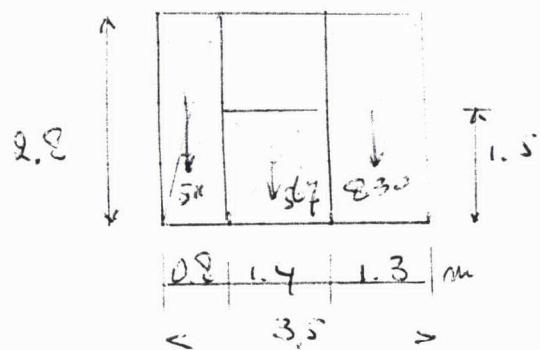
INGEKOMEN - 8 DEC. 2000

BEREKENING: ONDERSLAGBALLEN, BEHORENDE BIJ AANVRAAG

UITBONW. "ERKER"

A.W.GROOTE STR. 2

HILVERK



WICHTIGSPUNTE:

- 1 Dakgout 100 kg/m
- 2 Gevel 180 kg/m²
- 3 Balk 3,5 kg/m

$$\text{BELASTING: } (0.8 \cdot 2.8 \cdot 180) + 0.8 \cdot 100 + 0.8 \cdot 3.5 = 511 \text{ kg}$$

$$(1.4 \cdot 1.5 \cdot 180) + 1.4 \cdot 100 + 1.4 \cdot 3.5 = 567 \text{ kg}$$

$$(1.3 \cdot 2 \cdot 180) + 1.3 \cdot 100 + 1.3 \cdot 3.5 = 830 \text{ kg}$$

$$\text{TOTAAL} = 1908 \text{ kg}$$

$$830 \cdot 0.5 = 415 \text{ kg/m}$$

$$567 \cdot 0.25 = 142 \text{ kg/m}$$

$$511 \cdot 0.31 = 158.4 \text{ kg/m}$$

$$R_1 = \frac{325}{3.5} = 93 \text{ kg} \quad R_2 = 975 \text{ kg} \quad 325 \text{ kg/m}$$

$$x_c = \frac{511 \cdot 0.4 + 1.5 \cdot 0.567 + 2.8 \cdot 0.830}{1908} = \frac{264 + 854 + 2365}{1908} = 1.8 \text{ m}$$

$$M_{max} = 930 \cdot 1.8 - 511(1.8 - 0.4) - \frac{1.5^2 \cdot 567}{2} = 1677 - 215 - 223 = 1239 \text{ kgm}$$

$$f_{max} = \frac{5 M_{max}}{48 E I} \cdot \frac{l}{l_{max}} \quad I_{max} = \frac{5 \cdot 1239 \cdot 10^6 \cdot 3.5 \cdot 600}{4802.1 \cdot 10^6} = 704 \text{ cm}^4$$

$$W_L = \frac{676 \cdot 10^6}{1400} = 48.25 \text{ cm}^3$$

DIN 120 (HE12B) $I_m = 864 \text{ cm}^4$ $W_x = 144 \text{ cm}^3$ $G = 26.4 \text{ kg/m}$

IN 160 $I_m = 935 \text{ cm}^4$ $W_x = 117 \text{ cm}^3$ $G = 17.9 \text{ kg/m}$

