

BEREKENING, BEHORENDE BIJ
 "BOUWPLAN UIT GEBOUWDE KEUKEN"
 A.W. GROOTE STR. 8

HEEMSKERK 11-2-69

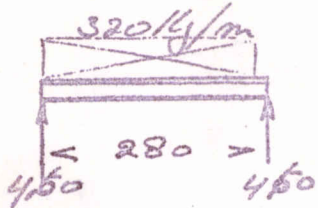
BEREKENING LATEI BALK (INP 12), ONDERSLAG BALK (DIN 18 OF 2x INP 18)
 + STAANDERS (Z N° 14)

1 LATEI BALK INP 12.

$$I_{z1} = 398 \text{ cm}^4$$

$$W_x = 54,7 \text{ cm}^3$$

$$G_{EW} = 11,2 \text{ kg/m}$$



GIEVELSTEEN 180 kg/m^2

BELASTING $\frac{(6,8 - 2) \cdot 180}{2,8} + 11,2 \rightarrow 320 \text{ kg/m}$

$$M_{max} = \frac{1}{8} \cdot 320 \cdot 2,8^2 = 315 \text{ kg.m}$$

$$\sigma = 1400 \text{ kg/cm}^2$$

$$W_{ben} = \frac{31500}{1400} = 22,5 \text{ cm}^3$$

$$I_{mod} = \chi Q l^2 \quad \frac{f_{max}}{\chi} = \frac{1}{600} \rightarrow \chi = 37,2$$

$$= 37,2 \cdot (2,8 \cdot 0,32) \cdot 2,8^2 \rightarrow 265 \text{ cm}^4$$

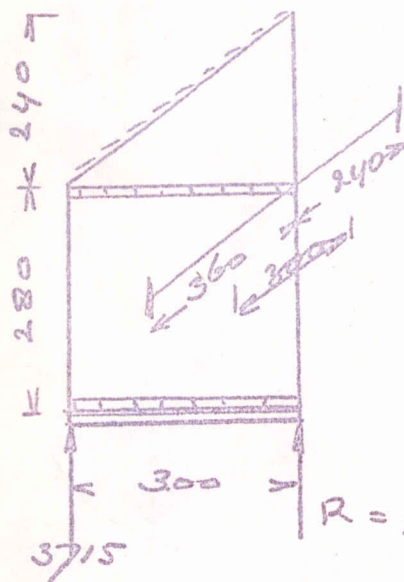
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2 ONDERSLAG BALK DIN 18

$$I_{z1} = 2510 \text{ cm}^4$$

$$W_x = 294 \text{ cm}^3$$

$$G = 35,5 \text{ kg/m}$$



BALKGEWICHT

$35,5 \text{ kg/m}$

METSELWERK KALKZ. ST $200 \text{ kg/m}^2 \rightarrow 800 \text{ kg/m}$

VLOER 1'ETAGE + ZOLDER $280 \text{ kg/m}^2 \rightarrow 480 \text{ kg/m}$

VLOERBELASTING 1'ETAGE $200 \text{ kg/m}^2 \rightarrow 600 \text{ kg/m}$

" " ZOLDER $150 \text{ kg/m}^2 \rightarrow 450 \text{ kg/m}$

DAKBED + GORDINGEN + BESCHOT

$90 \text{ kg/m}^2 \rightarrow 110 \text{ kg/m}$

$$R = \frac{3 \times 2475 \cdot 3}{2} = 3715 \text{ kg}$$

$2475,5 \text{ kg/m}$

$$M_{max} = \frac{1}{8} \cdot 2475 \cdot 3^2 = 2800 \text{ kg.m}$$

$$W_{ben} = \frac{280000}{1400} = 200 \text{ cm}^3$$

$$I_{Ben} = 37,2 \cdot (3 \cdot 2,475) \cdot 3^2$$

$$= 2500 \text{ cm}^4$$

ZIE OPM.