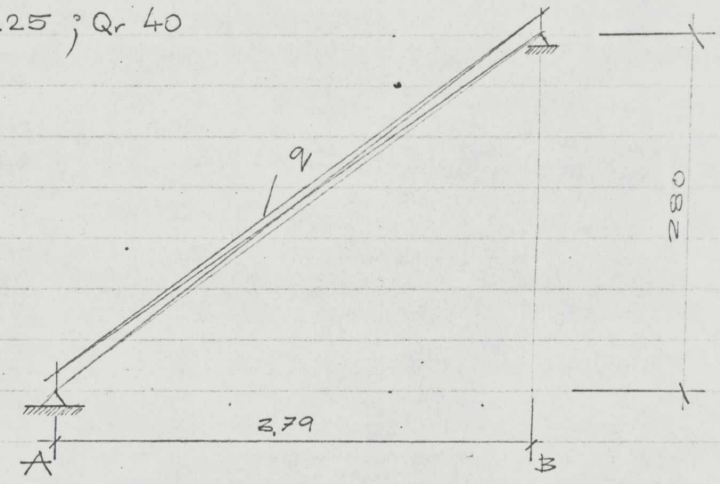
803-88

Trap

K 225 ; Qr 40



$\tan\alpha = \frac{280}{3,79} = 0,737 \rightarrow \alpha = 36°$

$\cos\alpha = 0,809$

$h = 18\ cm$

Belasting

e.g. plaat	$0,20 \times 2400/0,809$	=	$590\ kg/m^2$
n.b.		=	$400\ kg/m^2$
tredem	$2200 \times 0,09$	=	$200\ kg/m^2$
afw		=	$80\ kg/m^2$
	$q_{(m^2)}$	=	$1270\ kg/m^2$

$q_{(m')} = 1270 \times 1,31 = 1665\ kg/m'$

$M_{AB} = 1665 \times 3,79^2 \times \frac{1}{8} = 2990\ kgm$

$M_A = -\frac{1}{24} \times 1665 \times 3,79^2 = -990\ kgm$

$T_A = 3,79 \times 1665 \times 0,5 = 3160\ kg$

$K_{AB} = 0,330$; $\omega = 0,445 \rightarrow A = 8,01\ cm^2$

toegepast $\phi 12-14 \rightarrow A = 8,08\ cm^2$

Steunpunt A en B $\omega_{pract} = 0,2$ $A = 4,00\ cm^2$

toegepast $\phi 12-20 \rightarrow A = 5,65\ cm^2$