

Club Fachina

Secciones del arco por descriptiva
y acceso posterior

840.518
10-5-57

Descriptiva

Camión 46 Arco principal

$x = 0,5$

$y = 0,416$

$z = 0,793$

$y' = 13,4855 + 6,00 + 12,50 = 31,9855$

$\text{tg } \alpha = \sqrt{\left(\frac{31,9855}{12,5}\right)^2 - 1} = 2,35535$

Camión 0

$x = 0,50$

$y = 0,416$

$z = 0,398$

$y' = 6,3071 + 12,50 = 18,8071$

$\text{tg } \alpha = \sqrt{\left(\frac{18,8071}{12,5}\right)^2 - 1} = 1,12416$

398
398
398

Camión 19

$x = 1,00$

$y = \frac{y_{18}}{y_{20}} = \frac{5,4839}{6,2050} = 0,42114$

$z = \frac{z_{18}}{z_{20}} = \frac{5,2111}{5,5759} = -0,2648 \checkmark$

$y' = 4,9854 - 5,3982 + 12,50 = 15,0872 \checkmark$

$\text{tg } \alpha = 0,645863$

$\cos = 0,8285169$
 $\sin = 0,5599641$

Camión 54

$x = 1,00$

$y = \frac{y_{56}}{y_{58}} = \frac{6,2050}{5,4839} = 0,42114 \checkmark$

$z = \frac{z_{56}}{z_{58}} = \frac{4,6025}{3,9754} = 0,6241 \checkmark$

$y' = 14,0550 - 4,2291 + 12,50 = 22,2559 \checkmark$

$\text{tg } \alpha = 1,473119$

$\cos = 0,5616488$
 $\sin = 0,8243457$

Camión 38

$x = 1,00$

$y = \frac{y_{37}}{y_{39}} = \frac{4,9945}{4,9945} = 0 \checkmark$

$z = \frac{z_{37}}{z_{39}} = \frac{4,1259}{4,1060} = 0,0199 \checkmark$

$y' = 11,2418 - 4,1200 + 12,50 = 16,6198 \checkmark$

$\text{tg } \alpha = 0,846238$

$\cos = 0,7521149$
 $\sin = 0,659032$

Signe addors

Punto 67

$x = 1,00$

$y_{CG} - y_{CG} = 3,6595 - 3,0139 = 0,6426$

$z = z_{CG} + z_{CG} = 0,5848 + 0,5085 = 1,0913$

$y' = 14,2749 - 0,0522 + 12,5 = 26,7277$

$c_{CG} = 0,4677671046$

$q_{CG} = 0,883851762$

$\phi_{g\alpha} = 1,88951245$

Punto 46 Arco derecho

Punto 47

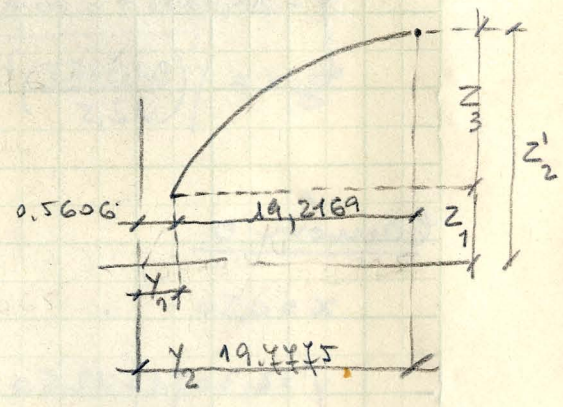
$x = 0,5$

$y_1 = 0,5 \times \frac{9,25}{8,25} = 0,560606$

$z'_2 = 13,3447 + 6,00 = 19,3447$

$y_2 = 19,4475$

$y = 19,2169$



$z_3 = 6,25 \left(e^{\frac{y}{a}} + e^{-\frac{y}{a}} \right)$

$\frac{y}{a} = 1,537352$

$\frac{y}{a} \lg e = 0,66766359$

$e^{\frac{y}{a}} = 4,6522474$

$e^{-\frac{y}{a}} = 0,21494998$

$\left(e^{\frac{y}{a}} + e^{-\frac{y}{a}} \right) = 4,8671973$

$z_3 = 30,41998312$

$z_1 = z'_2 + 6,25 - z_3 = 1,4247$

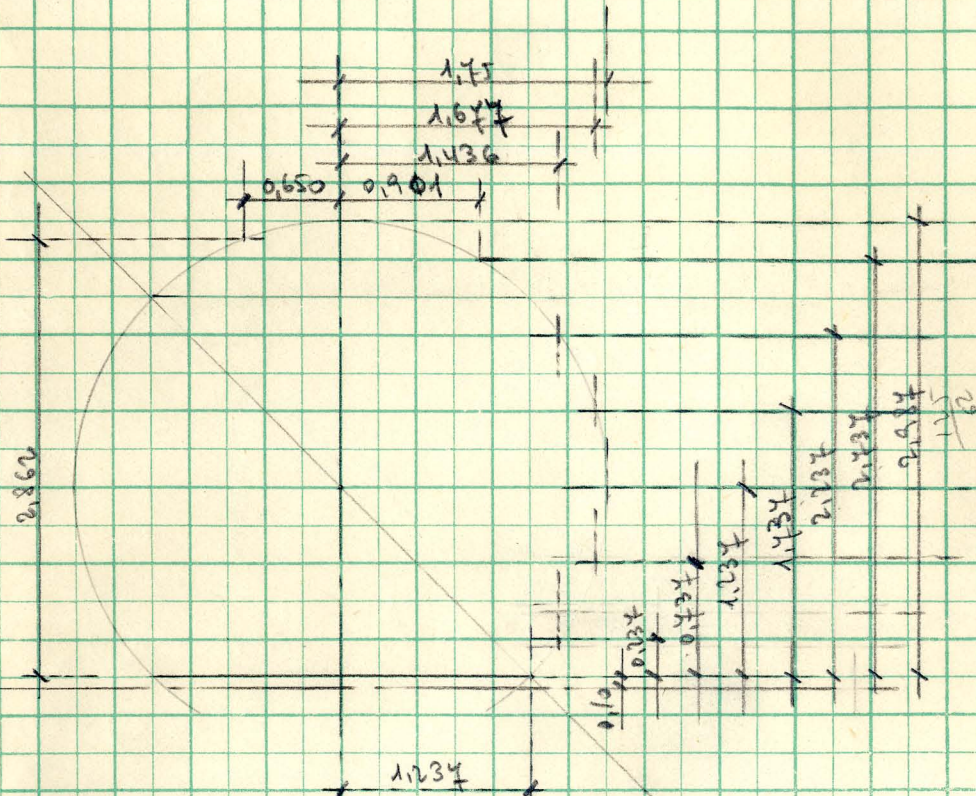
$\phi_{g\alpha} = 2,355$

5606
14015

0,356175

2,35535
1,88428

100
80



2834
125
2,962
125
3,087

banco	Z	Z _{3,087}	Z _{a+1}	Ch($\frac{y}{a}$)	($\frac{y}{a}$)	y	Z _{2,834}	Z _{2,334}	Y _Z	Z _{1,834}	Y _Z	Z _{1,334}	Z _{0,834}	Z _{0,334}
8	6,445								12,414					
9	6,830								12,444	4,993	1,399	0,866	10,831	23,628
10	6,921							4,584	1,366	2,083	2,19	10,402	23,284	12,882
11	7,018						4,184	1,334	2,086	9,958	2,030	4,681	1,344	0,840
12	7,120						4,283	1,341	2,64	0,805	83	10,013	23,139	4,783
13	7,228						4,391	1,351	2,8	0,815	41	10,193	23,359	
14	7,342	4,255	1,340	0,803	32	10,041	23,312	4,505	1,360	0,825	37	10,314	23,588	
15	7,461	4,344	1,349	0,813	92	10,144	23,554	4,624	1,369	0,835	62	10,445	23,828	5,124
16	7,585	4,448	1,359	0,824	76	10,310	23,813	4,748	1,379	0,846	13	10,577	24,080	5,248
17	7,713	4,626	1,370	0,835	79	10,444	24,076	5,376	1,388	0,857	07	11,213	24,842	13,678
18	7,844													13,766

Z	Ch($\frac{y}{a}$)	($\frac{y}{a}$)	y	Z
12	4,158	1,332	0,445	9,932
13	4,266	1,341	0,804	10,054
14	4,380	1,350	0,814	10,181
15	4,499	1,359	0,824	10,311
16	4,623	1,369	0,835	10,444

$Z = a \cdot (\text{Ch} \frac{y}{a} - 1)$ $\frac{Z}{a} + 1 = \text{Ch} \frac{y}{a}$ $y = (\frac{Z}{a} + 1) \cdot a$