WTM ENGINEERS
Böschungsberechnung nach EC 7
mit Kreisgleitflächen

Böschungsneigung 1:1,66
Auffüllung Sandig mit Kohäsion
Datei: Schnitt_M-M_1.66.boe

Parameterliste
phi [°] = Reibungswinkel
c [kN/m²] = Kohäsion
gamma [kN/m³] = Wichte
μ [-] = Ausnutzungsgrad
xm,ym [m] = x,y-Wert des Gleitkreismittelpunktes
rad [m] = Radius des Gleitkreises

Teilsicherheiten: (GEO-3)
- gam(phi)= 1.25
- gam(c') = 1.25
- gam(cu) = 1.25
- gam(Wichten) = 1.00
- gam(Ständige Einw.) = 1.00
- gam(Veränderliche Einw.) = 1.30

Bewegungsrichtung des Gleitkörpers nach rechts

Koordinaten der Geländepunkte

Nr.	x	y
[-]	[m]	[m]
1	-15.000	24.970
2	0.000	24.970
3	2.400	24.970
4	11.150	19.690
5	20.000	19.730

Charakteristische Bodenkennwerte

Boden	phi,k	c,k	gamma,k	Bezeichnung
[-]	[°]	[kN/m²]	[kN/m³]	
1	28.50	2.50	18.00	Auffüllung
2	30.00	5.00	21.00	Lg/Mg

Bemessungs-Bodenkennwerte

Boden	phi,d	c,d	gamma,d	Bezeichnung
[-]	[°]	[kN/m²]	[kN/m³]	
1	23.48	2.00	18.00	Auffüllung
2	24.79	4.00	21.00	Lg/Mg

Koordinaten der Schichten und Bodennummern

Nr.	x(links)	y(links)	x(rechts)	y(rechts)	Boden-Nr.
[-]	[m]	[m]	[m]	[m]	
1	-15.000	15.000	20.000	15.000	1
2	-15.000	8.000	20.000	8.000	2

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y
[-]	[m]	[m]

Koordinaten des Porenwasserdruck-Polygonzuges

Nr.	x	y
[-]	[m]	[m]
1	-15.000	17.890
2	20.000	17.890

Verkehrslasten

Nr.	Größe(links)	Größe(rechts)	x(links)	x(rechts)	y
[-]	[kN/m²]	[kN/m²]	[m]	[m]	[m]
1	10.00	10.00	-15.00	2.40	24.97
2	2.50	2.50	2.40	11.15	24.97

Wasserstand vor der Böschung links [m] = 0.00
Wasserstand vor der Böschung rechts [m] = 0.00

gamma Wasser [kN/m³] = 10.000

Berechnung mit Berücksichtigung des passiven Erddruckkeils

Ergebnisse
Suchbereich
Art Suchradius
Horizontale Tangenten
x / y (Anfang): 15.8669 29.5959
x / y (Ende): 16.9197 17.4176
Anzahl Radien = 105

Kreis	xm	ym	Radius	Lamellen	μ
[-]	[m]	[m]	[m]	[-]	[-]
1	3.1311	36.6430	16.5578	100	0.4132

Zähler = 3343.735 Nenner = 8092.257
M(Ti) = 8092.3 / M(R) = 0.0 / M(Gi) = 3343.7 / M(S) = 0.0

2	3.1311	35.1876	14.5225	100	0.4211

Zähler = 2342.543 Nenner = 5562.707
M(Ti) = 5562.7 / M(R) = 0.0 / M(Gi) = 2342.5 / M(S) = 0.0

3	3.1311	33.7323	12.8352	100	0.4315

Zähler = 1860.319 Nenner = 4311.048
M(Ti) = 4311.0 / M(R) = 0.0 / M(Gi) = 1860.3 / M(S) = 0.0

4	3.1311	32.2769	10.2200	100	0.4455

Zähler = 846.110 Nenner = 1899.338
M(Ti) = 1899.3 / M(R) = 0.0 / M(Gi) = 846.1 / M(S) = 0.0

5	3.1311	30.8216	8.4167	100	0.4655

Zähler = 559.611 Nenner = 1202.060
M(Ti) = 1202.1 / M(R) = 0.0 / M(Gi) = 559.6 / M(S) = 0.0

6	3.1311	29.3662	6.1450	100	0.4969

Zähler = 220.952 Nenner = 444.701
M(Ti) = 444.7 / M(R) = 0.0 / M(Gi) = 221.0 / M(S) = 0.0

7	3.1311	27.9109	4.1178	100	0.5504

Zähler = 79.879 Nenner = 145.125
M(Ti) = 145.1 / M(R) = 0.0 / M(Gi) = 79.9 / M(S) = 0.0

8	3.1311	26.4555	3.1404	100	0.5869

Zähler = 94.003 Nenner = 160.158
M(Ti) = 160.2 / M(R) = 0.0 / M(Gi) = 94.0 / M(S) = 0.0

9	3.1311	25.0002	4.5958	104	0.4173

Zähler = 502.403 Nenner = 1204.038
M(Ti) = 1204.0 / M(R) = 0.0 / M(Gi) = 502.4 / M(S) = 0.0

10	3.1311	23.5448	6.1272	109	0.3623

Zähler = 1334.439 Nenner = 3683.390
M(Ti) = 3683.4 / M(R) = 0.0 / M(Gi) = 1334.4 / M(S) = 0.0

11	3.1311	22.0895	6.8856	119	0.3700

Zähler = 2053.825 Nenner = 5550.311
M(Ti) = 5550.3 / M(R) = 0.0 / M(Gi) = 2053.8 / M(S) = 0.0

12	3.1311	20.6341	8.9618	143	0.3751

Zähler = 4402.698 Nenner = 11736.273

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Zähler = 2053.825   Nenner = 5550.311
M(Ti) = 5550.3 / M(R) = 0.0 / M(Gi) = 2053.8 / M(S)  = 0.0
 12       3.1311     20.6341     8.9618     143      0.3751
Zähler = 4402.698   Nenner = 11736.273
M(Ti) = 11736.3 / M(R) = 0.0 / M(Gi) = 4402.7 / M(S)  = 0.0
 13       4.7276     36.6430    15.5139     100      0.5040
Zähler = 2209.913   Nenner = 4384.927
M(Ti) = 4384.9 / M(R) = 0.0 / M(Gi) = 2209.9 / M(S)  = 0.0
 14       4.7276     35.1876    13.3626     100      0.5261
Zähler = 1339.594   Nenner = 2546.434
M(Ti) = 2546.4 / M(R) = 0.0 / M(Gi) = 1339.6 / M(S)  = 0.0
 15       4.7276     33.7323    11.5593     100      0.5543
Zähler = 940.708   Nenner = 1696.991
M(Ti) = 1697.0 / M(R) = 0.0 / M(Gi) = 940.7 / M(S)  = 0.0
 16       4.7276     32.2769     9.5241     100      0.5937
Zähler = 512.516   Nenner = 863.220
M(Ti) = 863.2 / M(R) = 0.0 / M(Gi) = 512.5 / M(S)  = 0.0
 17       4.7276     30.8216     7.6048     100      0.6486
Zähler = 265.120   Nenner = 408.760
M(Ti) = 408.8 / M(R) = 0.0 / M(Gi) = 265.1 / M(S)  = 0.0
 18       4.7276     29.3662     5.8101     100      0.7304
Zähler = 131.947   Nenner = 180.650
M(Ti) = 180.7 / M(R) = 0.0 / M(Gi) = 131.9 / M(S)  = 0.0
 19       4.7276     27.9109     4.4534     100      0.8114
Zähler = 99.715   Nenner = 122.885
M(Ti) = 122.9 / M(R) = 0.0 / M(Gi) = 99.7 / M(S)  = 0.0
 20       4.7276     26.4555     3.2527     100      0.8399
Zähler = 77.059   Nenner = 91.745
M(Ti) = 91.7 / M(R) = 0.0 / M(Gi) = 77.1 / M(S)  = 0.0
 21       4.7276     25.0002     4.5958     101      0.5638
Zähler = 548.868   Nenner = 973.551
M(Ti) = 973.6 / M(R) = 0.0 / M(Gi) = 548.9 / M(S)  = 0.0
 22       4.7276     23.5448     6.1272     105      0.4466
Zähler = 1481.135   Nenner = 3316.140
M(Ti) = 3316.1 / M(R) = 0.0 / M(Gi) = 1481.1 / M(S)  = 0.0
 23       4.7276     22.0895     7.0745     112      0.4303
Zähler = 2344.622   Nenner = 5448.710
M(Ti) = 5448.7 / M(R) = 0.0 / M(Gi) = 2344.6 / M(S)  = 0.0
 24       4.7276     20.6341     8.9618     134      0.4088
Zähler = 4500.782   Nenner = 11009.158
M(Ti) = 11009.2 / M(R) = 0.0 / M(Gi) = 4500.8 / M(S)  = 0.0
 25       6.3241     36.6430    14.5860     100      0.6158
Zähler = 1210.187   Nenner = 1965.147
M(Ti) = 1965.1 / M(R) = 0.0 / M(Gi) = 1210.2 / M(S)  = 0.0
 26       6.3241     35.1876    12.8987     100      0.6539
Zähler = 900.248   Nenner = 1376.684
M(Ti) = 1376.7 / M(R) = 0.0 / M(Gi) = 900.2 / M(S)  = 0.0
 27       6.3241     33.7323    11.0954     100      0.7017
Zähler = 568.855   Nenner = 810.713
M(Ti) = 810.7 / M(R) = 0.0 / M(Gi) = 568.9 / M(S)  = 0.0
 28       6.3241     32.2769     9.5241     100      0.7613
Zähler = 423.744   Nenner = 556.570
M(Ti) = 556.6 / M(R) = 0.0 / M(Gi) = 423.7 / M(S)  = 0.0
 29       6.3241     30.8216     8.0687     100      0.8196
Zähler = 323.580   Nenner = 394.788
M(Ti) = 394.8 / M(R) = 0.0 / M(Gi) = 323.6 / M(S)  = 0.0
 30       6.3241     29.3662     6.7030     100      0.8738
Zähler = 254.499   Nenner = 291.242
M(Ti) = 291.2 / M(R) = 0.0 / M(Gi) = 254.5 / M(S)  = 0.0
 31       6.3241     27.9109     5.5439     100      0.8997
Zähler = 236.207   Nenner = 262.537
M(Ti) = 262.5 / M(R) = 0.0 / M(Gi) = 236.2 / M(S)  = 0.0
 32       6.3241     26.4555     4.6007     100      0.8560
Zähler = 241.951   Nenner = 282.638
M(Ti) = 282.6 / M(R) = 0.0 / M(Gi) = 242.0 / M(S)  = 0.0
 33       6.3241     25.0002     4.5958     100      0.6968
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 32       6.3241     26.4555     4.6007     100      0.8560
Zähler = 241.951   Nenner = 282.638
M(Ti) = 282.6 / M(R) = 0.0 / M(Gi) = 242.0 / M(S)  = 0.0
 33       6.3241     25.0002     4.5958     100      0.6968
Zähler = 477.348   Nenner = 685.042
M(Ti) = 685.0 / M(R) = 0.0 / M(Gi) = 477.3 / M(S)  = 0.0
 34       6.3241     23.5448     6.0511     104      0.5304
Zähler = 1451.766   Nenner = 2737.262
M(Ti) = 2737.3 / M(R) = 0.0 / M(Gi) = 1451.8 / M(S)  = 0.0
 35       6.3241     22.0895     6.4806     108      0.4844
Zähler = 1918.064   Nenner = 3959.300
M(Ti) = 3959.3 / M(R) = 0.0 / M(Gi) = 1918.1 / M(S)  = 0.0
 36       6.3241     20.6341     5.6241     122      0.4456
Zähler = 1395.920   Nenner = 3132.465
M(Ti) = 3132.5 / M(R) = 0.0 / M(Gi) = 1395.9 / M(S)  = 0.0
 37       7.9206     36.6430    14.4700     100      0.7391
Zähler = 911.657   Nenner = 1233.507
M(Ti) = 1233.5 / M(R) = 0.0 / M(Gi) = 911.7 / M(S)  = 0.0
 38       7.9206     35.1876    13.0147     100      0.7842
Zähler = 777.204   Nenner = 991.099
M(Ti) = 991.1 / M(R) = 0.0 / M(Gi) = 777.2 / M(S)  = 0.0
 39       7.9206     33.7323    11.5593     100      0.8308
Zähler = 631.997   Nenner = 760.727
M(Ti) = 760.7 / M(R) = 0.0 / M(Gi) = 632.0 / M(S)  = 0.0
 40       7.9206     32.2769    10.2200     100      0.8772
Zähler = 558.854   Nenner = 637.092
M(Ti) = 637.1 / M(R) = 0.0 / M(Gi) = 558.9 / M(S)  = 0.0
 41       7.9206     30.8216     8.9966     100      0.9170
Zähler = 537.229   Nenner = 585.842
M(Ti) = 585.8 / M(R) = 0.0 / M(Gi) = 537.2 / M(S)  = 0.0
 42       7.9206     29.3662     7.8191     100      0.9390
Zähler = 507.285   Nenner = 540.213
M(Ti) = 540.2 / M(R) = 0.0 / M(Gi) = 507.3 / M(S)  = 0.0
 43       7.9206     27.9109     6.7183     100      0.9259
Zähler = 472.819   Nenner = 510.645
M(Ti) = 510.6 / M(R) = 0.0 / M(Gi) = 472.8 / M(S)  = 0.0
 44       7.9206     26.4555     5.3871     100      0.8645
Zähler = 293.009   Nenner = 338.937
M(Ti) = 338.9 / M(R) = 0.0 / M(Gi) = 293.0 / M(S)  = 0.0
 45       7.9206     25.0002     4.5958     100      0.7881
Zähler = 313.377   Nenner = 397.614
M(Ti) = 397.6 / M(R) = 0.0 / M(Gi) = 313.4 / M(S)  = 0.0
 46       7.9206     23.5448     6.0511     105      0.5825
Zähler = 1300.127   Nenner = 2231.943
M(Ti) = 2231.9 / M(R) = 0.0 / M(Gi) = 1300.1 / M(S)  = 0.0
 47       7.9206     22.0895     6.5076     110      0.5117
Zähler = 1773.039   Nenner = 3464.771
M(Ti) = 3464.8 / M(R) = 0.0 / M(Gi) = 1773.0 / M(S)  = 0.0
 48       7.9206     20.6341     5.6241     121      0.4590
Zähler = 1221.811   Nenner = 2661.883
M(Ti) = 2661.9 / M(R) = 0.0 / M(Gi) = 1221.8 / M(S)  = 0.0
 49       9.5171     36.6430    15.0500     100      0.8415
Zähler = 1065.480   Nenner = 1266.175
M(Ti) = 1266.2 / M(R) = 0.0 / M(Gi) = 1065.5 / M(S)  = 0.0
 50       9.5171     35.1876    13.7106     100      0.8812
Zähler = 977.978   Nenner = 1109.874
M(Ti) = 1109.9 / M(R) = 0.0 / M(Gi) = 978.0 / M(S)  = 0.0
 51       9.5171     33.7323    12.3712     100      0.9188
Zähler = 869.235   Nenner = 946.089
M(Ti) = 946.1 / M(R) = 0.0 / M(Gi) = 869.2 / M(S)  = 0.0
 52       9.5171     32.2769    11.1478     100      0.9502
Zähler = 839.940   Nenner = 883.936
M(Ti) = 883.9 / M(R) = 0.0 / M(Gi) = 839.9 / M(S)  = 0.0
 53       9.5171     30.8216    10.0404     100      0.9690
Zähler = 872.174   Nenner = 900.058
M(Ti) = 900.1 / M(R) = 0.0 / M(Gi) = 872.2 / M(S)  = 0.0
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M(Ti) = 883.9 / M(R) = 0.0 / M(Gi) = 839.9 / M(S)  = 0.0
 53       9.5171     30.8216    10.0404     100      0.9690
Zähler = 872.174   Nenner = 900.058
M(Ti) = 900.1 / M(R) = 0.0 / M(Gi) = 872.2 / M(S)  = 0.0
 54       9.5171     29.3662     8.9352     100      0.9663
Zähler = 849.685   Nenner = 879.279
M(Ti) = 879.3 / M(R) = 0.0 / M(Gi) = 849.7 / M(S)  = 0.0
 55       9.5171     27.9109     7.9766     100      0.9334
Zähler = 876.336   Nenner = 938.853
M(Ti) = 938.9 / M(R) = 0.0 / M(Gi) = 876.3 / M(S)  = 0.0
 56       9.5171     26.4555     6.3419     100      0.8917
Zähler = 433.702   Nenner = 486.370
M(Ti) = 486.4 / M(R) = 0.0 / M(Gi) = 433.7 / M(S)  = 0.0
 57       9.5171     25.0002     4.9087     100      0.8481
Zähler = 236.645   Nenner = 279.044
M(Ti) = 279.0 / M(R) = 0.0 / M(Gi) = 236.6 / M(S)  = 0.0
 58       9.5171     23.5448     6.0511     105      0.5698
Zähler = 1014.775   Nenner = 1780.783
M(Ti) = 1780.8 / M(R) = 0.0 / M(Gi) = 1014.8 / M(S)  = 0.0
 59       9.5171     22.0895     4.6719     110      0.5035
Zähler = 561.564   Nenner = 1115.340
M(Ti) = 1115.3 / M(R) = 0.0 / M(Gi) = 561.6 / M(S)  = 0.0
 60       9.5171     20.6341     5.6241     122      0.4447
Zähler = 1006.666   Nenner = 2263.901
M(Ti) = 2263.9 / M(R) = 0.0 / M(Gi) = 1006.7 / M(S)  = 0.0
 61      11.1136     36.6430    15.8618     100      0.9199
Zähler = 1412.439   Nenner = 1535.354
M(Ti) = 1535.4 / M(R) = 0.0 / M(Gi) = 1412.4 / M(S)  = 0.0
 62      11.1136     35.1876    14.6385     100      0.9513
Zähler = 1412.571   Nenner = 1484.819
M(Ti) = 1484.8 / M(R) = 0.0 / M(Gi) = 1412.6 / M(S)  = 0.0
 63      11.1136     33.7323    13.4151     100      0.9771
Zähler = 1370.147   Nenner = 1402.268
M(Ti) = 1402.3 / M(R) = 0.0 / M(Gi) = 1370.1 / M(S)  = 0.0
 64      11.1136     32.2769    12.1917     100      0.9930
Zähler = 1282.323   Nenner = 1291.334
M(Ti) = 1291.3 / M(R) = 0.0 / M(Gi) = 1282.3 / M(S)  = 0.0
 65      11.1136     30.8216    11.0843     100      0.9943
Zähler = 1277.937   Nenner = 1285.294
M(Ti) = 1285.3 / M(R) = 0.0 / M(Gi) = 1277.9 / M(S)  = 0.0
 66      11.1136     29.3662     9.6048     100      0.9561
Zähler = 817.874   Nenner = 855.457
M(Ti) = 855.5 / M(R) = 0.0 / M(Gi) = 817.9 / M(S)  = 0.0
 67      11.1136     27.9109     8.1444     100      0.9264
Zähler = 502.596   Nenner = 542.547
M(Ti) = 542.5 / M(R) = 0.0 / M(Gi) = 502.6 / M(S)  = 0.0
 68      11.1136     26.4555     6.7351     100      0.8932
Zähler = 304.385   Nenner = 340.763
M(Ti) = 340.8 / M(R) = 0.0 / M(Gi) = 304.4 / M(S)  = 0.0
 69      11.1136     25.0002     5.3069     100      0.8491
Zähler = 160.383   Nenner = 188.889
M(Ti) = 188.9 / M(R) = 0.0 / M(Gi) = 160.4 / M(S)  = 0.0
 70      11.1136     23.5448     6.0511     105      0.4924
Zähler = 710.081   Nenner = 1442.081
M(Ti) = 1442.1 / M(R) = 0.0 / M(Gi) = 710.1 / M(S)  = 0.0
 71      11.1136     22.0895     6.8586     110      0.4388
Zähler = 1312.959   Nenner = 2992.475
M(Ti) = 2992.5 / M(R) = 0.0 / M(Gi) = 1313.0 / M(S)  = 0.0
 72      11.1136     20.6341     5.6241     122      0.3989
Zähler = 782.019   Nenner = 1960.576
M(Ti) = 1960.6 / M(R) = 0.0 / M(Gi) = 782.0 / M(S)  = 0.0
 73      12.7101     36.6430    16.7897     100      0.9778
Zähler = 1939.996   Nenner = 1984.087
M(Ti) = 1984.1 / M(R) = 0.0 / M(Gi) = 1940.0 / M(S)  = 0.0
 74      12.7101     35.1876    15.5663     100      0.9993
Zähler = 1887.959   Nenner = 1889.269
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Zähler = 1939.996   Nenner = 1984.087
M(Ti) = 1984.1 / M(R) = 0.0 / M(Gi) = 1940.0 / M(S)  = 0.0
 74      12.7101     35.1876    15.5663     100      0.9993
Zähler = 1887.959   Nenner = 1889.269
M(Ti) = 1889.3 / M(R) = 0.0 / M(Gi) = 1888.0 / M(S)  = 0.0
 75      12.7101     33.7323    14.1110     100      1.0044
Zähler = 1421.487   Nenner = 1415.203
M(Ti) = 1415.2 / M(R) = 0.0 / M(Gi) = 1421.5 / M(S)  = 0.0
 76      12.7101     32.2769    12.6556     100      0.9636
Zähler = 956.976   Nenner = 993.166
M(Ti) = 993.2 / M(R) = 0.0 / M(Gi) = 957.0 / M(S)  = 0.0
 77      12.7101     30.8216    11.2003     100      0.9230
Zähler = 597.569   Nenner = 647.448
M(Ti) = 647.4 / M(R) = 0.0 / M(Gi) = 597.6 / M(S)  = 0.0
 78      12.7101     29.3662     9.7165     100      0.8605
Zähler = 320.595   Nenner = 372.569
M(Ti) = 372.6 / M(R) = 0.0 / M(Gi) = 320.6 / M(S)  = 0.0
 79      12.7101     27.9109     8.3122     100      0.7994
Zähler = 177.704   Nenner = 222.296
M(Ti) = 222.3 / M(R) = 0.0 / M(Gi) = 177.7 / M(S)  = 0.0
 80      12.7101     26.4555     6.9036     100      0.7128
Zähler = 82.568   Nenner = 115.830
M(Ti) = 115.8 / M(R) = 0.0 / M(Gi) = 82.6 / M(S)  = 0.0
 81      12.7101     25.0002     5.5345     100      0.6226
Zähler = 34.951   Nenner = 56.133
M(Ti) = 56.1 / M(R) = 0.0 / M(Gi) = 35.0 / M(S)  = 0.0
 82      12.7101     23.5448     6.1272     105      0.3533
Zähler = 436.470   Nenner = 1235.302
M(Ti) = 1235.3 / M(R) = 0.0 / M(Gi) = 436.5 / M(S)  = 0.0
 83      12.7101     22.0895     5.9947     110      0.3422
Zähler = 593.003   Nenner = 1732.780
M(Ti) = 1732.8 / M(R) = 0.0 / M(Gi) = 593.0 / M(S)  = 0.0
 84      12.7101     20.6341     4.7486     122      0.3029
Zähler = 327.721   Nenner = 1081.887
M(Ti) = 1081.9 / M(R) = 0.0 / M(Gi) = 327.7 / M(S)  = 0.0
 85      14.3066     36.6430    17.1377     100      0.9832
Zähler = 1372.270   Nenner = 1395.787
M(Ti) = 1395.8 / M(R) = 0.0 / M(Gi) = 1372.3 / M(S)  = 0.0
 86      14.3066     35.1876    15.7983     100      0.9560
Zähler = 1083.582   Nenner = 1133.504
M(Ti) = 1133.5 / M(R) = 0.0 / M(Gi) = 1083.6 / M(S)  = 0.0
 87      14.3066     33.7323    14.3430     100      0.8938
Zähler = 662.745   Nenner = 741.520
M(Ti) = 741.5 / M(R) = 0.0 / M(Gi) = 662.7 / M(S)  = 0.0
 88      14.3066     32.2769    12.8876     100      0.8170
Zähler = 362.380   Nenner = 443.562
M(Ti) = 443.6 / M(R) = 0.0 / M(Gi) = 362.4 / M(S)  = 0.0
 89      14.3066     30.8216    11.5482     100      0.7706
Zähler = 238.942   Nenner = 310.055
M(Ti) = 310.1 / M(R) = 0.0 / M(Gi) = 238.9 / M(S)  = 0.0
 90      14.3066     29.3662    10.1629     100      0.6847
Zähler = 122.214   Nenner = 178.495
M(Ti) = 178.5 / M(R) = 0.0 / M(Gi) = 122.2 / M(S)  = 0.0
 91      14.3066     27.9109     8.7316     100      0.5451
Zähler = 32.880   Nenner = 60.317
M(Ti) = 60.3 / M(R) = 0.0 / M(Gi) = 32.9 / M(S)  = 0.0
 92      14.3066     26.4555     7.4653     100      0.5227
Zähler = 19.880   Nenner = 38.032
M(Ti) = 38.0 / M(R) = 0.0 / M(Gi) = 19.9 / M(S)  = 0.0
 93      14.3066     25.0002     7.5257     100      0.2349
Zähler = 342.034   Nenner = 1456.213
M(Ti) = 1456.2 / M(R) = 0.0 / M(Gi) = 342.0 / M(S)  = 0.0
 94      14.3066     23.5448     6.1272     105      0.1898
Zähler = 192.450   Nenner = 1013.818
M(Ti) = 1013.8 / M(R) = 0.0 / M(Gi) = 192.4 / M(S)  = 0.0
 95      14.3066     22.0895     5.1038     111      0.1833
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 94      14.3066     23.5448     6.1272     105      0.1898
Zähler = 192.450   Nenner = 1013.818
M(Ti) = 1013.8 / M(R) = 0.0 / M(Gi) = 192.4 / M(S)  = 0.0
 95      14.3066     22.0895     5.1038     111      0.1833
Zähler = 157.663   Nenner = 860.042
M(Ti) = 860.0 / M(R) = 0.0 / M(Gi) = 157.7 / M(S)  = 0.0
 96      14.3066     20.6341     3.8731     123      0.1751
Zähler = 93.315   Nenner = 532.893
M(Ti) = 532.9 / M(R) = 0.0 / M(Gi) = 93.3 / M(S)  = 0.0
 97      15.9031     36.6430    17.6016     100      0.8817
Zähler = 816.553   Nenner = 926.163
M(Ti) = 926.2 / M(R) = 0.0 / M(Gi) = 816.6 / M(S)  = 0.0
 98      15.9031     35.1876    16.1463     100      0.7953
Zähler = 444.298   Nenner = 558.638
M(Ti) = 558.6 / M(R) = 0.0 / M(Gi) = 444.3 / M(S)  = 0.0
 99      15.9031     33.7323    14.8069     100      0.7440
Zähler = 295.399   Nenner = 397.055
M(Ti) = 397.1 / M(R) = 0.0 / M(Gi) = 295.4 / M(S)  = 0.0
100      15.9031     32.2769    13.3515     100      0.6031
Zähler = 102.543   Nenner = 170.020
M(Ti) = 170.0 / M(R) = 0.0 / M(Gi) = 102.5 / M(S)  = 0.0
101      15.9031     30.8216    12.0122     100      0.5055
Zähler = 30.053   Nenner = 59.450
M(Ti) = 59.4 / M(R) = 0.0 / M(Gi) = 30.1 / M(S)  = 0.0
102      15.9031     29.3662    10.3861     100      0.0001
Zähler = -3.044   Nenner = 472.736
M(Ti) = 472.7 / M(R) = 0.0 / M(Gi) = -3.0 / M(S)  = 0.0
103      15.9031     27.9109     9.0672     100      0.0001
Zähler = -3.146   Nenner = 472.109
M(Ti) = 472.1 / M(R) = 0.0 / M(Gi) = -3.1 / M(S)  = 0.0
104      15.9031     26.4555     7.8584     100      0.0001
Zähler = -3.561   Nenner = 518.064
M(Ti) = 518.1 / M(R) = 0.0 / M(Gi) = -3.6 / M(S)  = 0.0
105      15.9031     25.0002     6.6439     100      0.0009
Zähler = 0.457   Nenner = 517.555
M(Ti) = 517.6 / M(R) = 0.0 / M(Gi) = 0.5 / M(S)  = 0.0
106      15.9031     23.5448    nicht berechnet
107      15.9031     22.0895    nicht berechnet
108      15.9031     20.6341    nicht berechnet
109      17.4996     36.6430    18.0655     100      0.7124
Zähler = 330.477   Nenner = 463.877
M(Ti) = 463.9 / M(R) = 0.0 / M(Gi) = 330.5 / M(S)  = 0.0
110      17.4996     35.1876    16.7262     100      0.6488
Zähler = 199.293   Nenner = 307.170
M(Ti) = 307.2 / M(R) = 0.0 / M(Gi) = 199.3 / M(S)  = 0.0
111      17.4996     33.7323    15.3868     100      0.5696
Zähler = 95.741   Nenner = 168.081
M(Ti) = 168.1 / M(R) = 0.0 / M(Gi) = 95.7 / M(S)  = 0.0
112      17.4996     32.2769    12.7716     100      0.0001
Zähler = -0.682   Nenner = 185.926
M(Ti) = 185.9 / M(R) = 0.0 / M(Gi) = -0.7 / M(S)  = 0.0
113      17.4996     30.8216    11.3163     100      0.0001
Zähler = -0.568   Nenner = 155.084
M(Ti) = 155.1 / M(R) = 0.0 / M(Gi) = -0.6 / M(S)  = 0.0
114      17.4996     29.3662     9.9397     100      0.0001
Zähler = -0.743   Nenner = 169.171
M(Ti) = 169.2 / M(R) = 0.0 / M(Gi) = -0.7 / M(S)  = 0.0
115      17.4996     27.9109     8.4800     100      0.0001
Zähler = -0.570   Nenner = 131.498
M(Ti) = 131.5 / M(R) = 0.0 / M(Gi) = -0.6 / M(S)  = 0.0
116      17.4996     26.4555     7.1283     100      0.0001
Zähler = -0.686   Nenner = 136.601
M(Ti) = 136.6 / M(R) = 0.0 / M(Gi) = -0.7 / M(S)  = 0.0
117      17.4996     25.0002     5.8189     100      0.0001
Zähler = -0.791   Nenner = 140.612
M(Ti) = 140.6 / M(R) = 0.0 / M(Gi) = -0.8 / M(S)  = 0.0
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M(Ti) = 136.6 / M(R) = 0.0 / M(Gi) = -0.7 / M(S) = 0.0

117	17.4996	25.0002	5.8189	100	0.0001

Zähler = -0.791 Nenner = 140.612

M(Ti) = 140.6 / M(R) = 0.0 / M(Gi) = -0.8 / M(S) = 0.0

118	17.4996	23.5448	nicht berechnet
119	17.4996	22.0895	nicht berechnet
120	17.4996	20.6341	nicht berechnet

Ungünstigster Gleitkreis

Kreis	xm [m]	ym [m]	Radius [m]	Lamellen [-]	μ [-]
75	12.7101	33.7323	14.1110	100	1.0044

Zähler = 1421.487 Nenner = 1415.203