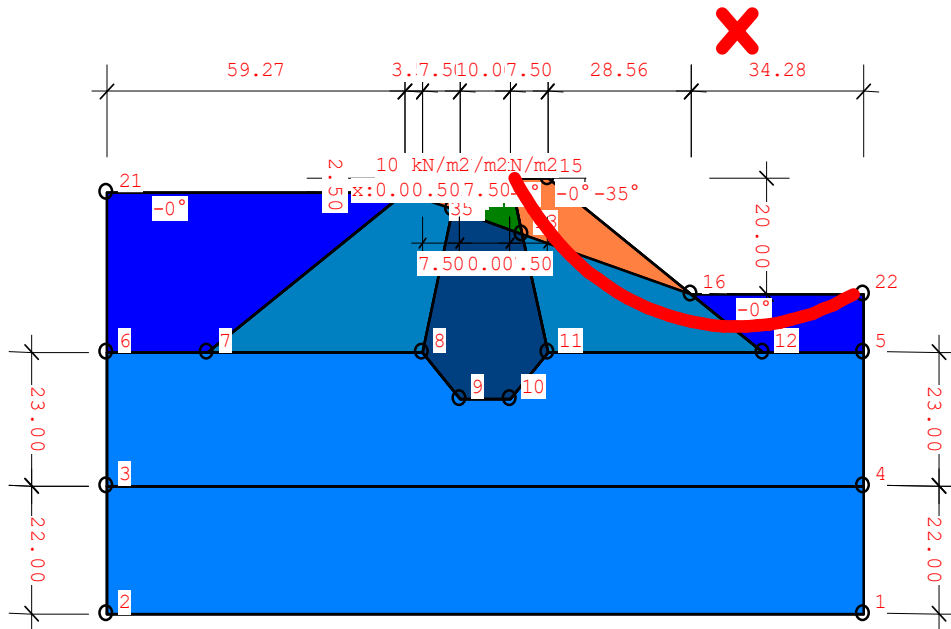


RIB GLEITK Böschungsbruchnachweis

Damm mit Kern



Ergebnisliste:

Eingabe **Datei:** EINFÜHRUNG.GLK
 Datum/Date: 26.10.2018
 Berechnung nach DIN EN 1997-1:2009

als ständige Bemessungssituation entsprechend BS-P

Teilsicherheitsbeiwerte :

gamma_G	gamma_Q	gamma_phi	gamma_c
1.00	1.30	1.25	1.25

Schicht | eingeschlossen von den Knoten

1		1	2	3	4						
2		5	4	3	6	7	8	9	10	11	12
3		13	14	15	16						
4		17	18	19	20						
5		20	19	14	13						
6		16	12	11	13						
7		20	8	7	17						
8		20	13	11	10	9	8				
9		21	17	7	6						
10		22	5	12	16						

Knotenkoordinaten			Knotenkoordinaten			Knotenkoordinaten		
Nr.	x	y	Nr.	x	y	Nr.	x	y
1	87.84	-75.00	2	-62.84	-75.00	3	-62.84	-53.00
4	87.84	-53.00	5	87.84	-30.00	6	-62.84	-30.00
7	-42.84	-30.00	8	0.00	-30.00	9	7.50	-38.00
10	17.50	-38.00	11	25.00	-30.00	12	67.84	-30.00
13	19.92	-9.70	14	17.50	0.00	15	25.00	0.00
16	53.56	-20.00	17	-3.57	-2.50	18	0.00	0.00
19	7.50	0.00	20	6.13	-5.47	21	-62.84	-2.50
22	87.84	-20.00						

Porenwasserdruckverhältnis

LF	Sch.	gamma	phi	c	1	2	3	4	5	6	7	8	9	10	KZP
1	1	18.0A	26.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
2	2	18.0A	26.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
3	3	20.0	32.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
4	4	20.0	32.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
5	5	22.0	27.5	10.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
6	6	20.0A	32.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
7	7	20.0A	32.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
8	8	22.0A	27.5	10.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
9	9	10.0A	0.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
10	10	10.0A	0.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0

Wasser 10.0

Lasten die wie Lamellen wirken

LF	x1	y1	x2	y2	px1	py1	px2	py2	Var
11	17.50	0.00	25.00	0.00	0.00	-10.00	0.00	-10.00	0
12	7.50	0.00	17.50	0.00	0.00	-10.00	0.00	-10.00	0
13	0.00	0.00	7.50	0.00	0.00	-10.00	0.00	-10.00	0

Gleitkreise

Nr.	Radius	x-Ord.	y-Ord.	Nr.	Radius	x-Ord.	y-Ord.
1	51.01	62.70	25.40				

Lamellenteilungsfaktor = 15.00

Neues Koordinatensystem: dx = 0.000, dy = 25.610

Schicht | eingeschlossen von den Knoten

1		1	2	3	4										
2		5	4	3	6	7	8	9	10	11	12				
3		13	14	15	16										
4		17	18	19	20										
5		20	19	14	13										
6		16	12	11	13										
7		20	8	7	17										
8		20	13	11	10	9	8								
9		21	17	7	6										
10		22	5	12	16										

Knotenkoordinaten

Nr.	x	y	Nr.	x	y	Nr.	x	y
1	87.84	-49.39	2	-62.84	-49.39	3	-62.84	-27.39
4	87.84	-27.39	5	87.84	-4.39	6	-62.84	-4.39
7	-42.84	-4.39	8	0.00	-4.39	9	7.50	-12.39
10	17.50	-12.39	11	25.00	-4.39	12	67.84	-4.39
13	19.92	15.91	14	17.50	25.61	15	25.00	25.61
16	53.56	5.61	17	-3.57	23.11	18	0.00	25.61
19	7.50	25.61	20	6.13	20.14	21	-62.84	23.11
22	87.84	5.61						

Porenwasserdruckverhältnis

LF	Sch.	gamma	phi	c	1	2	3	4	5	6	7	8	9	10	KZP
1	1	18.0A	26.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
2	2	18.0A	26.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
3	3	20.0	32.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
4	4	20.0	32.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
5	5	22.0	27.5	10.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
6	6	20.0A	32.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
7	7	20.0A	32.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
8	8	22.0A	27.5	10.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
9	9	10.0A	0.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0
10	10	10.0A	0.0	0.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	0

Wasser 10.0

Lasten die wie Lamellen wirken

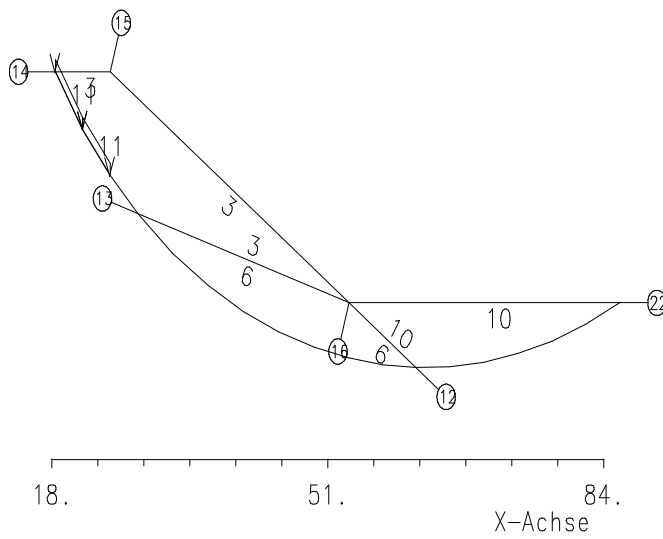
LF	x1	y1	x2	y2	px1	py1	px2	py2	Var
11	17.50	25.61	25.00	25.61	0.00	-10.00	0.00	-10.00	0
12	7.50	25.61	17.50	25.61	0.00	-10.00	0.00	-10.00	0
13	0.00	25.61	7.50	25.61	0.00	-10.00	0.00	-10.00	0

Gleitkreise

Nr.	Radius	x-Ord.	y-Ord.	Nr.	Radius	x-Ord.	y-Ord.

1	51.01	62.70	51.01									
Lamellenteilungsfaktor = 15.00												
Komb.	Erdbebenfaktor		Lastfälle									
	horizontal		vertikal									
1	0.00	0.00	1	2	3	4	5	6	7	8	9	10
			11	12	13							
Komb.	Mass-Stab		Kreise									
1	1: 100		1									
Komb	Kreis	Radius	x	y	ebfh	ebfv	Rd	Ed	Rd/Ed			
1	1	51.01	62.70	51.01	0.00	0.00	2151.0	2930.1	0.734			

ENDE Damm mit Kern
 Die Berechnung erfolgte nach dem Lamellenverfahren von Bishop
 (Vgl.DIN 4084, Juli 1981)
 ENDE Gleitkreisberechnung

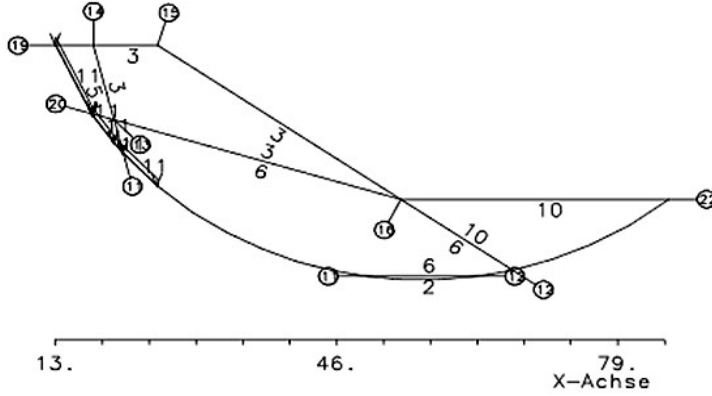


LF	SCH	GAMMA	PHI	C
10	10	10.0A	0.0	0.0
6	6	20.0A	32.0	0.0
3	3	20.0	32.0	0.0

LAST	LU	RU
11	5.881	5.881

Damm mit Kern
 Kombi= 1 Kreis= 1 Radius= 51.01 x= 62.70 y= 51.01 Eh= 0.0 Ev= 0.0
 Mass-Stab= 1: 550 Rd/Ed= 0.73 - Bishop

Programm GLEI18.0 R

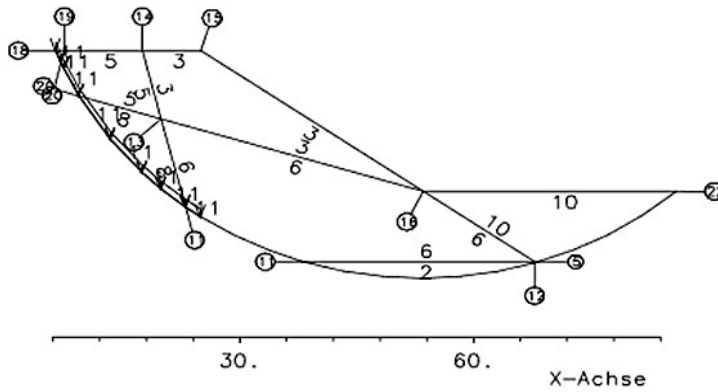


LF	SCH	GAMMA	PHI	C
10	10	10.0A	0.0	0.0
2	2	18.0A	26.0	0.0
6	6	20.0A	32.0	0.0
10	10	20.0A	32.0	0.0
13	13	22.0A	27.5	10.0
15	15	22.0	27.5	10.0

LAST 11 LU 5.414 RU 5.414

Damm mit Kern
 Kombi= 1 Kreis= 2 Radius= 45.47 x= 56.00 y= 47.33 Eh= 0.0 Ev= 0.0
 Mass-Stab= 1: 550 Rd/Ed= 0.77 - Bishop

Prog. GLEITK 12.0

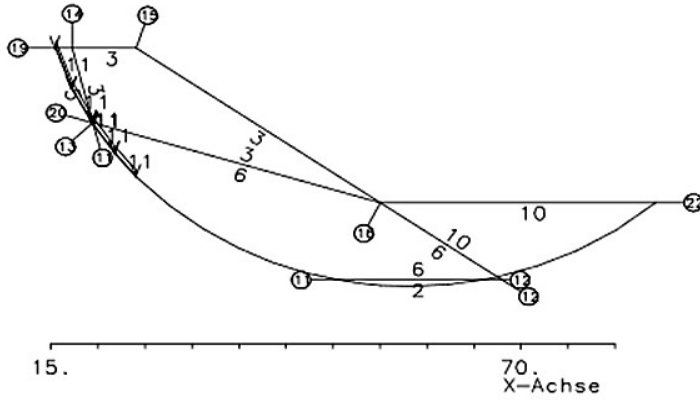


LF	SCH	GAMMA	PHI	C
10	10	10.0A	0.0	0.0
2	2	18.0A	26.0	0.0
6	6	20.0A	32.0	0.0
10	10	20.0A	32.0	0.0
13	13	22.0A	27.5	10.0
15	15	22.0	27.5	10.0

LAST 11 LU 6.089 RU 6.089

Damm mit Kern
 Kombi= 1 Kreis= 3 Radius= 50.03 x= 53.20 y= 50.03 Eh= 0.0 Ev= 0.0
 Mass-Stab= 1: 600 Rd/Ed= 0.77 - Bishop

Prog. GLEITK 12.0

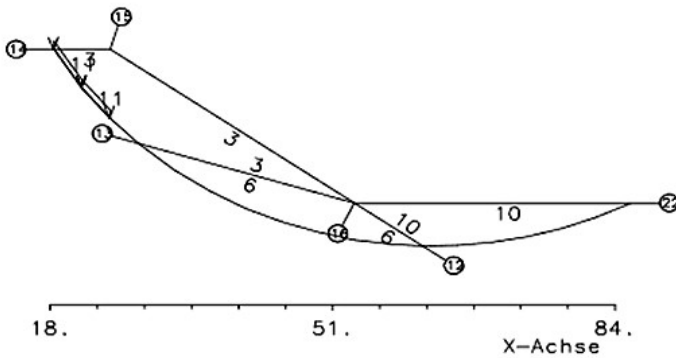


LF	SCH	GAMMA	PHI	C
10	10	10.0A	0.0	0.0
2	2	18.0A	26.0	0.0
6	6	20.0A	32.0	0.0
8	8	22.0A	27.5	10.0
5	5	22.0	32.0	0.0
5	5	22.0	27.5	10.0

LAST	LU	RU
11	4.899	4.899

Damm mit Kern
 Kombi= 1 Kreis= 4 Radius= 43.42 x= 57.10 y= 44.93 Eh= 0.0 Ev= 0.0
 Mass-Stab= 1: 550 Rd/Ed= 0.74 - Bishop

Prog. GLEITK 12.0



LF	SCH	GAMMA	PHI	C
10	10	10.0A	0.0	0.0
6	6	20.0A	32.0	0.0
3	3	20.0	32.0	0.0

LAST	LU	RU
11	5.881	5.881

Damm mit Kern
 Kombi= 1 Kreis= 5 Radius= 51.01 x= 62.70 y= 57.73 Eh= 0.0 Ev= 0.0
 Mass-Stab= 1: 550 Rd/Ed= 0.73 - Bishop

Prog. GLEITK 12.0