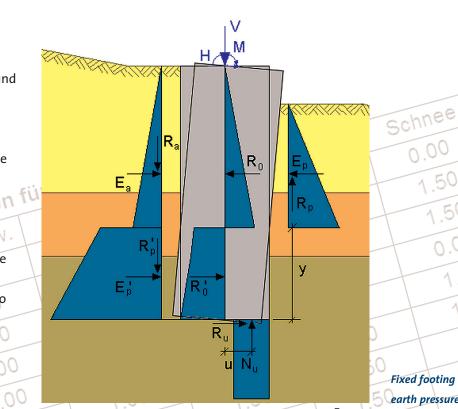
Analysis of fixed pylon footings DC-Footing/Pylon

- Approach acc. to Steckner improved with soil layers, ground water level, excavation depths and berms!
- German, English, French, Romanian, Hungarian language
- Analysis acc. to Eurocode 7, DIN 1054:2010 and SIA 267
- Fixing of the footing by active and passive earth pressure
- Activation of the earth pressure by rotation of the footing
- Iteration of the level of the zero line y
- Serviceability check by perm. inclination
- Stability analysis by the limit value of load moment



50

[m] 0.675

0.675 0.675 50

Fixed footing with earth pressures

0.00

1.50

1.50

0.00

1.50

1.50

1.50

0.00

1.50

	(A)			A			
	Stability analysis						
	Critical load combination no. 2						
	Vertical load N _α		=	102.6 kN			
	Horizontal load H _d		=	1.4 kN			
	Moment at top edge M _d		=	135.0 kNm			
	Earth pressure forces and level	r arms rel. t	o foo	ting top edge	e (Design values)		
	· ·			arth pressure		Frictio	
				[kN]	[m]	[kN]	
	Active E _{a,d}			63.7	1.881	17.3	
	Passive above zero line E _{p,d}			103.5	2.078	53.0	
	Passive below zero line E _{p,d} '			26.1	2.946	12.1	
	At rest above zero line E _{0,d}			70.8	1.846	28.7	
	At rest below zero line $E_{0,d}$ ' Res. earth resistance above zero line $E_{w,d}$			10.2	2.946	3.7	
				68.4	2.165		
	Res. earth resistance below ze	ro line E _{w,d} '		29.8	2.946		
	Application of wall friction angle	e δ of		0.667*φ			
	Ideal pressure width bid	о ор от	=	2.147 m			
	Height zero line y above base		=	0.210 m			
	Soil pressure p _{u,d}		=	486.6 kN/m	2		
	Soil pressure force N _{ud}		=	64.6 kN			
	Lever arm soil pr. force u		=	0.626 m			
	Friction force R _{u,d}		=	33.9 kN			
	Lillimata mamont M		_	139.1 kNm			
	Ultimate moment M _u		=	0.970	*** Check fulfilled ***		
	$M_d < M_u$, utilization factor		5	0.970	Check fullilled		
	Chability and the						
Stability analysis							

acc. to Steckner

18

19

20

00

1.00

1.00

1.00

1.00

1.00

1.00

0.00 0.00 50 3D display 1.50 Lever arm of the footing 0.00 1.50 1.50 1.50

1.50

0.00