SMF VALUES WHEN THE RATIO tan ß/tan ϕ EXCEEDS 0.56

The following tables indicate the appropriate SMF value to use in Coulomb's equation (or the general wedge equation) to compute a K_o that is close to the value computed from the Danish Code Equation. The last two columns contain the recommended SMF and the corresponding K_o value calculated using Coulomb's equation. Note that a row of asterisks denotes the condition ß > ϕ_d ; Coulomb's equation is not valid for this condition.

PHI = 26.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
15.00	0.7070	0.4822	0.7086	0.7086	0.6667
16.00	0.7164	0.4920	0.7390	0.7164	0.6865
17.00	0.7258	0.5026	0.7818	0.7257	0.7070
18.00	0.7352	0.5143	0.8895	0.7351	0.7296
19.00	0.7445	0.5273	******	0.7444	0.7546
20.00	0.7537	0.5420	******	0.7536	0.7821
21.00	0.7629	0.5589	******	0.7628	0.8120
22.00	0.7720	0.5786	******	0.7719	0.8444
23.00	0.7811	0.6026	******	0.7810	0.8793
24.00	0.7901	0.6333	******	0.7900	0.9169
25.00	0.7990	0.6776	******	0.7994	0.9570

PHI = 27.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
15.00	0.6873	0.4608	0.6805	0.6805	0.6667
16.00	0.6965	0.4696	0.7059	0.6965	0.6756
17.00	0.7056	0.4792	0.7387	0.7056	0.6937
18.00	0.7147	0.4897	0.7874	0.7147	0.7139
19.00	0.7238	0.5012	******	0.7237	0.7362
20.00	0.7328	0.5141	******	0.7327	0.7608
21.00	0.7417	0.5286	******	0.7416	0.7876
22.00	0.7505	0.5453	******	0.7505	0.8168
23.00	0.7594	0.5649	******	0.7593	0.8484
24.00	0.7681	0.5887	******	0.7681	0.8825
25.00	0.7768	0.6193	******	0.7769	0.9190
26.00	0.7854	0.6635	******	0.7855	0.9582

PHI = 28.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
16.00	0.6768	0.4483	0.6764	0.6764	0.6667
17.00	0.6856	0.4570	0.7033	0.6856	0.6824
18.00	0.6945	0.4665	0.7389	0.6944	0.7004
19.00	0.7033	0.4768	0.7959	0.7032	0.7203
20.00	0.7120	0.4882	******	0.7119	0.7423
21.00	0.7207	0.5009	******	0.7206	0.7664
22.00	0.7293	0.5153	******	0.7293	0.7927
23.00	0.7378	0.5317	******	0.7378	0.8213
24.00	0.7463	0.5511	******	0.7462	0.8522
25.00	0.7547	0.5747	******	0.7547	0.8854
26.00	0.7631	0.6052	******	0.7632	0.9210
27.00	0.7714	0.6491	******	0.7718	0.9592

PHI = 29.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
17.00	0.6658	0.4359	0.6722	0.6722	0.6667
18.00	0.6744	0.4445	0.7008	0.6743	0.6888
19.00	0.6829	0.4538	0.7398	0.6828	0.7066
20.00	0.6914	0.4639	0.8095	0.6913	0.7263
21.00	0.6998	0.4751	******	0.6998	0.7480
22.00	0.7082	0.4877	******	0.7081	0.7717
23.00	0.7165	0.5018	******	0.7164	0.7975
24.00	0.7247	0.5181	******	0.7247	0.8254
25.00	0.7329	0.5373	******	0.7328	0.8556
26.00	0.7410	0.5607	******	0.7410	0.8880
27.00	0.7491	0.5909	******	0.7492	0.9228
28.00	0.7571	0.6346	******	0.7572	0.9601

PHI = 30.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
17.00	0.6462	0.4159	0.6440	0.6440	0.6667
18.00	0.6545	0.4236	0.6681	0.6544	0.6788
19.00	0.6628	0.4320	0.6985	0.6627	0.6947
20.00	0.6710	0.4411	0.7415	0.6710	0.7124
21.00	0.6792	0.4511	0.8394	0.6792	0.7319
22.00	0.6873	0.4621	******	0.6872	0.7532
23.00	0.6954	0.4745	******	0.6953	0.7765
24.00	0.7034	0.4884	******	0.7033	0.8018
25.00	0.7113	0.5045	******	0.7113	0.8291
26.00	0.7192	0.5235	******	0.7191	0.8587
27.00	0.7270	0.5466	******	0.7270	0.8904
28.00	0.7347	0.5765	******	0.7348	0.9245
29.00	0.7424	0.6200	******	0.7424	0.9610

PHI = 31.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
18.00	0.6348	0.4037	0.6386	0.6386	0.6667
19.00	0.6429	0.4113	0.6638	0.6428	0.6845
20.00	0.6508	0.4195	0.6964	0.6508	0.7004
21.00	0.6588	0.4285	0.7444	0.6587	0.7179
22.00	0.6666	0.4383	******	0.6666	0.7371
23.00	0.6745	0.4491	******	0.6744	0.7581
24.00	0.6822	0.4612	******	0.6821	0.7810
25.00	0.6899	0.4750	******	0.6898	0.8058
26.00	0.6976	0.4908	******	0.6976	0.8326
27.00	0.7051	0.5096	******	0.7051	0.8615
28.00	0.7126	0.5324	******	0.7126	0.8926
29.00	0.7201	0.5620	******	0.7202	0.9260
30.00	0.7274	0.6052	******	0.7276	0.9617

PHI = 32.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
19.00	0.6231	0.3917	0.6331	0.6331	0.6667
20.00	0.6309	0.3991	0.6595	0.6308	0.6899
21.00	0.6385	0.4071	0.6944	0.6385	0.7056
22.00	0.6462	0.4159	0.7488	0.6461	0.7229
23.00	0.6538	0.4255	******	0.6537	0.7419
24.00	0.6613	0.4361	******	0.6612	0.7626
25.00	0.6687	0.4481	******	0.6687	0.7851
26.00	0.6762	0.4616	******	0.6761	0.8094
27.00	0.6835	0.4772	******	0.6835	0.8357
28.00	0.6908	0.4956	******	0.6907	0.8641
29.00	0.6980	0.5182	******	0.6979	0.8946
30.00	0.7051	0.5475	******	0.7053	0.9273
31.00	0.7122	0.5902	******	0.7122	0.9624

PHI = 33.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
19.00	0.6036	0.3730	0.6051	0.6051	0.6667
20.00	0.6111	0.3797	0.6274	0.6110	0.6808
21.00	0.6185	0.3869	0.6552	0.6185	0.6949
22.00	0.6259	0.3948	0.6926	0.6259	0.7105
23.00	0.6333	0.4034	0.7558	0.6332	0.7276
24.00	0.6406	0.4128	******	0.6405	0.7463
25.00	0.6478	0.4232	******	0.6477	0.7667
26.00	0.6550	0.4349	******	0.6549	0.7888
27.00	0.6621	0.4482	******	0.6620	0.8128
28.00	0.6691	0.4635	******	0.6691	0.8386
29.00	0.6761	0.4817	******	0.6761	0.8665
30.00	0.6830	0.5039	******	0.6830	0.8964
31.00	0.6899	0.5329	******	0.6899	0.9286
32.00	0.6967	0.5751	******	0.6970	0.9630

PHI = 34.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
20.00	0.5916	0.3612	0.5984	0.5984	0.6667
21.00	0.5988	0.3678	0.6215	0.5987	0.6856
22.00	0.6059	0.3748	0.6507	0.6058	0.6997
23.00	0.6130	0.3825	0.6911	0.6130	0.7151
24.00	0.6201	0.3909	0.7679	0.6201	0.7320
25.00	0.6271	0.4001	******	0.6271	0.7504
26.00	0.6340	0.4103	******	0.6340	0.7705
27.00	0.6409	0.4218	******	0.6409	0.7923
28.00	0.6478	0.4348	******	0.6478	0.8158
29.00	0.6545	0.4499	******	0.6545	0.8413
30.00	0.6612	0.4677	******	0.6612	0.8686
31.00	0.6678	0.4896	******	0.6678	0.8981
32.00	0.6744	0.5182	******	0.6745	0.9297
33.00	0.6809	0.5600	******	0.6814	0.9636

PHI = 35.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
21.00	0.5792	0.3495	0.5914	0.5914	0.6667
22.00	0.5862	0.3559	0.6154	0.5861	0.6901
23.00	0.5930	0.3628	0.6460	0.5930	0.7040
24.00	0.5999	0.3703	0.6899	0.5998	0.7193
25.00	0.6066	0.3785	0.7989	0.6066	0.7360
26.00	0.6134	0.3875	******	0.6133	0.7542
27.00	0.6200	0.3975	******	0.6200	0.7740
28.00	0.6266	0.4087	******	0.6266	0.7955
29.00	0.6332	0.4214	******	0.6331	0.8187
30.00	0.6396	0.4362	******	0.6396	0.8437
31.00	0.6460	0.4538	******	0.6461	0.8706
32.00	0.6524	0.4753	******	0.6523	0.8996
33.00	0.6587	0.5034	******	0.6588	0.9307
34.00	0.6649	0.5447	******	0.6654	0.9641

PHI = 36.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
22.00	0.5666	0.3380	0.5842	0.5842	0.6667
23.00	0.5733	0.3442	0.6090	0.5732	0.6942
24.00	0.5799	0.3509	0.6412	0.5798	0.7081
25.00	0.5864	0.3582	0.6891	0.5864	0.7232
26.00	0.5929	0.3662	******	0.5928	0.7398
27.00	0.5994	0.3749	******	0.5993	0.7577
28.00	0.6057	0.3847	******	0.6057	0.7773
29.00	0.6121	0.3956	******	0.6120	0.7984
30.00	0.6183	0.4081	******	0.6183	0.8212
31.00	0.6245	0.4226	******	0.6245	0.8458
32.00	0.6307	0.4398	******	0.6306	0.8724
33.00	0.6367	0.4610	******	0.6366	0.9009
34.00	0.6427	0.4887	******	0.6428	0.9316
35.00	0.6487	0.5294	******	0.6491	0.9645

PHI = 37.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
22.00	0.5473	0.3209	0.5558	0.5558	0.6667
23.00	0.5538	0.3265	0.5766	0.5537	0.6857
24.00	0.5601	0.3325	0.6023	0.5601	0.6981
25.00	0.5665	0.3391	0.6362	0.5664	0.7119
26.00	0.5727	0.3461	0.6889	0.5727	0.7269
27.00	0.5790	0.3539	******	0.5789	0.7432
28.00	0.5851	0.3625	******	0.5850	0.7610
29.00	0.5912	0.3720	******	0.5911	0.7802
30.00	0.5973	0.3827	******	0.5973	0.8010
31.00	0.6033	0.3949	******	0.6033	0.8235
32.00	0.6092	0.4091	******	0.6091	0.8478
33.00	0.6151	0.4259	******	0.6150	0.8740
34.00	0.6208	0.4467	******	0.6208	0.9021
35.00	0.6266	0.4739	******	0.6267	0.9324
36.00	0.6322	0.5140	******	0.6327	0.9649

PHI = 38.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
23.00	0.5345	0.3097	0.5474	0.5474	0.6667
24.00	0.5407	0.3151	0.5687	0.5406	0.6894
25.00	0.5468	0.3210	0.5953	0.5467	0.7018
26.00	0.5528	0.3273	0.6310	0.5528	0.7154
27.00	0.5588	0.3342	0.6894	0.5588	0.7302
28.00	0.5648	0.3417	******	0.5647	0.7464
29.00	0.5707	0.3501	******	0.5707	0.7639
30.00	0.5765	0.3593	******	0.5765	0.7829
31.00	0.5823	0.3698	******	0.5822	0.8035
32.00	0.5880	0.3817	******	0.5880	0.8256
33.00	0.5937	0.3956	******	0.5937	0.8496
34.00	0.5993	0.4120	******	0.5993	0.8754
35.00	0.6048	0.4324	******	0.6048	0.9032
36.00	0.6102	0.4591	******	0.6104	0.9331
37.00	0.6156	0.4986	******	0.6160	0.9653

PHI = 39.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
24.00	0.5214	0.2986	0.5387	0.5387	0.6667
25.00	0.5273	0.3038	0.5605	0.5273	0.6928
26.00	0.5332	0.3095	0.5879	0.5331	0.7052
27.00	0.5390	0.3157	0.6255	0.5389	0.7186
28.00	0.5447	0.3224	0.6913	0.5447	0.7333
29.00	0.5504	0.3297	******	0.5503	0.7493
30.00	0.5560	0.3378	******	0.5560	0.7666
31.00	0.5616	0.3468	******	0.5616	0.7853
32.00	0.5671	0.3570	******	0.5671	0.8056
33.00	0.5726	0.3686	******	0.5726	0.8275
34.00	0.5780	0.3821	******	0.5779	0.8512
35.00	0.5833	0.3982	******	0.5832	0.8767
36.00	0.5886	0.4182	******	0.5886	0.9041
37.00	0.5938	0.4444	******	0.5937	0.9337
38.00	0.5989	0.4831	******	0.5993	0.9656

PHI = 40.00°

ß (Deg)	$K_{oß}$ (Danish)	K_o (SMF=1)	K_o (SMF=2/3)	Recommended K_o	Recommended SMF
25.00	0.5082	0.2876	0.5297	0.5297	0.6667
26.00	0.5138	0.2927	0.5519	0.5137	0.6960
27.00	0.5194	0.2982	0.5802	0.5193	0.7082
28.00	0.5249	0.3041	0.6197	0.5249	0.7216
29.00	0.5304	0.3106	0.6954	0.5303	0.7361
30.00	0.5358	0.3177	******	0.5357	0.7519
31.00	0.5412	0.3256	******	0.5411	0.7690
32.00	0.5465	0.3344	******	0.5464	0.7876
33.00	0.5518	0.3442	******	0.5518	0.8076
34.00	0.5570	0.3556	******	0.5569	0.8292
35.00	0.5621	0.3687	******	0.5621	0.8526
36.00	0.5672	0.3845	******	0.5672	0.8778
37.00	0.5722	0.4040	******	0.5723	0.9049
38.00	0.5771	0.4296	******	0.5773	0.9342
39.00	0.5820	0.4677	******	0.5825	0.9658