

Μέτρα Υποστήριξης Σηράγγων: Ασκήσεις

Ανάλυση ευστάθειας και στήριξη επισφαλών όγκων

Δίδεται η αποτύπωση μικροτεκτονικών χαρακτηριστικών ασβεστολιθικής βραχομάζας σε περιοχή κατασκευής σήραγγας του αυτοκινητοδρόμου ΠΑΘΕ. Χρησιμοποιήστε τον κώδικα unwedge πιθανοτικά για τον προσδιορισμό συστήματος υποστήριξης αγκυρίων με μηχανικά χαρακτηριστικά της επιλογής σας για τις σήραγγες διαφυγής με τα κατωτέρω χαρακτηριστικά:

1. Trend 014
2. Trend 173
3. Trend 155
4. Trend 027
5. Trend 016
6. Trend 004

dip	dip direction	spacing (cm)	length (m)	SEPARATION (MM)	roughness	filling	weathering	KIND
85	108		1-3	<0.1	SLIGHTLY ROUGH	NONE	NONE	JOINT
85	120	20	1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
45	40		1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
40	45	15	1-3	<0.1	SLIGHTLY ROUGH	NONE	NONE	BEDDING
88	125	30	1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
30	32	25	1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
40	240		1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	FAULT
18	150		1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
15	175	7	1-3	<0.1	SLIGHTLY ROUGH	NONE	NONE	BEDDING
80	315		1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
70	330	20	1-3	0.1-1	SLIGHTLY ROUGH	NONE	NONE	JOINT
16	155	8	1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
82	320	20	1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
24	120	20	3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
30	140	15	3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING

ΔΠΜΣ «Σχεδιασμός και Κατασκευή Υπογείων Έργων»

Ακαδ. Έτος 2015-2016

Μάθημα: «Μέτρα Υποστήριξης Σηράγγων»

Διδάσκων: Α.Ι. Σοφριανός

Επιμέλεια ασκήσεων: Π. Γιούτα-Μήτρα

23	122	35	3-10	NONE		SLIGHTLY ROUGH	NONE	NONE	BEDDING
82	275	5	1-3	<0.1		SLIGHTLY ROUGH	NONE	NONE	JOINT
80	280	6	1-3	<0.1		SLIGHTLY ROUGH	NONE	NONE	JOINT
75	280	10	1-3	<0.1		SLIGHTLY ROUGH	NONE	NONE	JOINT
70	300	15	1-3	<0.1		SLIGHTLY ROUGH	NONE	NONE	JOINT
25	132	5	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	BEDDING
28	135	8	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	BEDDING
22	147	10	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	BEDDING
88	247	20	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	JOINT
82	280	15	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	JOINT
25	150	8	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	BEDDING
75	95		1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	JOINT
58	290	10	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	JOINT
65	320	20	1-3	<0.1		SLIGHTLY ROUGH	NONE	NONE	JOINT
80	45	10	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	JOINT
67	60	10	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	JOINT
15	132	25	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	BEDDING
80	295	20	3-10		5-lav	SLIGHTLY ROUGH	NONE	NONE	JOINT
88	45	12	1-3	<0.1		SLIGHTLY ROUGH	NONE	NONE	JOINT
85	55	8	1-3	<0.1		SLIGHTLY ROUGH	NONE	NONE	JOINT
80	295	15	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	JOINT
70	310	20	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	JOINT
20	50	6	3-10	NONE		SLIGHTLY ROUGH	NONE	NONE	BEDDING
20	65	4	3-10	NONE		SLIGHTLY ROUGH	NONE	NONE	BEDDING
80	30	4	1-3	<0.1		SLIGHTLY ROUGH	NONE	NONE	JOINT
82	28	15	1-3	<0.1		SLIGHTLY ROUGH	NONE	NONE	JOINT
70	288	10	1-3	NONE		SLIGHTLY ROUGH	NONE	NONE	JOINT

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50	85	1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	FAULT
88	290	8 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
30	60	10 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
85	280	15 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
25	292	1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
65	130	1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
27	45	8 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
20	60	10 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
75	100	15 3-10	NONE	SLIGHTLY ROUGH	CALCITE	NONE	JOINT
65	110	20 3-10	NONE	SLIGHTLY ROUGH	CALCITE	NONE	JOINT
25	85	15 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
80	80	25 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
50	285	10 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
68	275	8 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
35	30	10 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
25	34	10 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
75	290	12 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
15	40	30 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
15	35	40 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	BEDDING
70	270	20 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
70	115	15 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
80	260	30 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
67	176	15 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
75	272	20 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
70	180	20 3-10	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
80	245	3 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT
80	275	2 1-3	NONE	SLIGHTLY ROUGH	NONE	NONE	JOINT