GEORGIOS ALPOS
06/08/2024 12:00
ΑΚΡΙΒΕΣ ΑΝΤΙΓΡΑΦΟ

EGNATIA ODOS A.E.

YPHRESIES SYMBOYLOY GIA THN MELETH PROTYPVN OXETVN THS EGNATIAS ODOY

MELETH PROTYPOY OXETOY

TYPOS OXETOY	DIASTASEIS OXETOY PLATOS X YCOS	YCOS EPIXVSHS OXETOY	SEISMIKOTHTA	KVDIKOS OXETOY
KIBVTOEIDHS	2.00 x 2.00	0.40÷10.00	II	K 2−2

		ONOMATEPVNYMO	YPOGRAFH	HMEROMHNIA
1 ☐ EGKRINETAI	TEXNIKOS ELEGXOS APO:	K. PAPAEYUYMIOY		
2 ☐ EGKRINETAI OPVS SHMEIVNETAI		R. ABEYSINGHE		
3 ☐ ANAUEVRHSH KAI EPANAYPOBOLH	EGKRISH APO:	X. GEVRGANOPOYLOS		
4 ☐ DEN APAITEITAI ELEGXOS				

EKDOSH	HMEROMHNIA	ONOMA/YPOGRAFH O MELETVN	PERIGRAFH
F			
E			
D			
C			
B			
A	09/03/1998	LOYKATOS NESTORAS	PRVTH EKDOSH/FIRST ISSUE

TITLOS:

KIBVTOEIDHS OXETOS K 2−2

MELETHTHS

A.ALEJOPOYLOS − N.LOYKATOS & SYNERGATES E.E

EKPONHSH MELETVN, EPIBLECH ERGVN, PAROXH YPHRESIVN TEXNIKOY SYMBOYLOY

G' SEPTEMBRIOY 56 104−33 AUHNA Thl. 01−8213 596 Fax. 01−8215 076 E−mail : standec @ compulink.gr

KVDIKOS EGGRAFOY (Symfvna me th DKE)

FYLLO:

TMHMA	SYMBASH	EIDOS	ANTIKEIMENO	TYPOS	STADIO	EKDOSH	ARIUMOS
0000	115	S	D	D	3	A	004

KLIMAKA: 1:20, 1:25, 1:50

A. PERIOXH ISXYOS

1. O typow aytow exei ypoxrevtikh efarmogh gia oxetoyw ypo epixvsh oi opoioi perilambanontai ston parapleyrvw pinaka, oi opoioi sxediazontai kai kataskeyazontai ypoxrevtika symfvna me to paron sxedio.
2. Tropopoihsh tvn diastasevn tvn typvn aytvn peran tvn problepomenvn ston pinaka den epitrepetai.
3. O typow isxyei gia merikh h olikh ekskafh se opoiodhpote edafow.
4. Einai aparaithth h topouethsh ejomalyntikhw strvshw sthn edrash toy oxetoy kai h xrhsimopoihsh pleyrikvn jylotypvn se opoiodhpote edafow.
5. Epitrepetai h spondylvth prokataskeyh me morfvsh tvn armvn symfvna me to sxedio genikhw diatajhw.

B. YLIKA KATASKEYHS

Skyrodema: Aoplo skyrodema B10 (ejomalyntikh strvsh)
Oplismeno skyrodema B25.
Oplismow: Xalarow oplismow Bst 500S − DIN 488.

G. KANONISMOI

DIN 1045 : oplismeno kai aoplo skyrodema
DIN 1072 : fortiseiw gefyrvn kai odogefyrvn (klash 60/30)
DIN 1075 : olosvmew gefyrew, ypologismow kai kataskeyh
DIN 1055 : fortia
DIN 1054 : uemelivseiw, epitrepomenew fortiseiw edafvn
DIN 4018 : ypologismow katanomhw pieshw edafoyw
DIN 4019 : ypologismow kauizhsevn
DIN 4085 : pleyrikew vuhseiw gaivn
DIN 4225 : prokataskeyasmena stoixeia skyrodematow
NEAK : Neow Ellhnikow Antiseismikow Kanonismow
Ellhnikow Kanonismow Texnologiaw Skyrodematow
E39/93 YPEXVDE : odhgiew gia thn antiseismikh meleth gefyrvn

D. PARADOXES

1. Fortiseiw
1.1 Monima fortia
- Idio barow skyrodematow g=25 KN/m3
- Idio Barow gaivn kai epixvshw g=20 KN/m3
  Loipa xarakthristika ylikoy epixvshw:
  Synektikothta c=0
  Gvnia esvterikhw tribhw f=30 °
  Klish pranoyw pisv apo toixoyw, ycow/platow = 1 : 3
- Vuhseiw gaivn
  Energhtikh vuhsh gaivn gia ta Texnika Eisodoy−Ejodoy
  Oydeterh vuhsh gaivn (hremiaw) gia toyw Oxetoyw

1.2 Uermokrasiakew metabolew
- Systolh apo phjh anv plakaw −15 °C
- Diafora mesa−ejv ±7°C

1.3 Kinhta fortia
- Klash 60/30
- Katanomh kinhtvn kau ycow me gvnia 30° vw prow thn katakoryfo

1.4 Seismow
- Seismikothta perioxhw II
- Epitaxynsh edafoyw 0.24g
- Spoydaiothta 1.0
- Syntelesthw symperiforaw q=1.0
- Seismikew vuhseiw symfvna me thn paragrafo 5.3.2.b NEAK

2. Edafow uemelivshw
- Typow A: argiloi, xalarew evw pyknew ammoi, lepta xalara ammoxalika.
- Typow B: braxoi, krokalopagh, kala diabaumismenew poly pyknew ammoi h ammoxalika.

E. PARATHRHSEIS

1. Paxow epikalychw oplismoy 5ek. symfvna me thn leptomereia L1.
2. Oi armoi diakophw ergasivn shmeivnontai sthn typikh leptomereia kataskeyhw kibvtoeidvn oxetvn.
3. Edafh poy den ypagontai safvw sthn kathgoria B ua uevroyntai kathgoriaw A.
4. H meleth den perilambanei edafotexnikoyw elegxoyw oi opoioi piuanon na apaitoyntai analoga me tiw sygkekrimenew edafikew synuhkew poy aforoyn to svma thw odoy.

PINAKAS TYPVN KIBVTOEIDVN OXETVN

b \ h	1.00	2.00	3.00	4.00	5.00
1.00	K1−1	K1−2			
2.00		K2−2	K2−3		
3.00		K3−2	K3−3	K3−4	
4.00		K4−2	K4−3	K4−4	
5.00		K5−2	K5−3	K5−4	K5−5
6.00		K6−2	K6−3	K6−4	K6−5

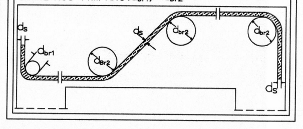
DIAMETROS TYMPANVN KAMCEVS SIDHROY OPLISMOY		
DIAMETROS RABDVN d_s [mm]	$d_s < 20$	$d_{Br} = 4d_s$
	$20 < d_s < 28$	$d_{Br} = 7d_s$
EPIKALYCH SKYRODEMATOS kaueth sthn epifaneia kampylothtaw	KAMCEIS RABDVN an kamptontai sthn idia uesh rabdoi perissotervn strvsevn tote prepei oi parakatv timew, gia rabdoyw tvn esvterikvn strvsevn na pollaplasiazontai me ton syntelesth 1.50	
>50 mm kai >3d_s	$d_{Br} = 15d_s$	
<=50 mm h >3d_s	$d_{Br} = 20d_s$	

**h diametrow kampylvshw mporei na meivuei se $d=10d_s$ an h epikalych toy skyrodematow kaueta prow thn epifaneia kampylothtaw kai h apostash ajonvn tvn rabdvn einai toylaxiston 100 mm kai $7d_s$ antistoixvw.

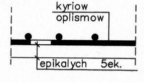
KVDIKOS RABDVN SIDHROY OPLISMOY : ○
KVDIKOS RABDVN SYGKOLLHTVN OPLISMVN : ☐

YLIKA: OPLISMENO SKYRODEMA B 25
XALYBAS : Bst 500S

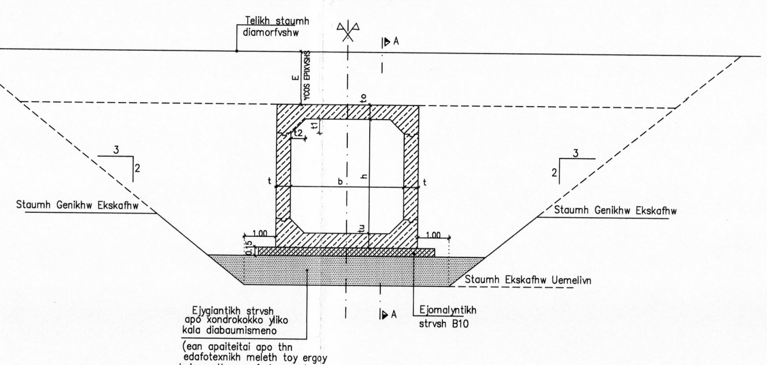
DIAMETROS TYMPANOY d_{br1}, d_{br2}



1. LEPTOMEREIA L1
PAXOS EPIKALYCHS

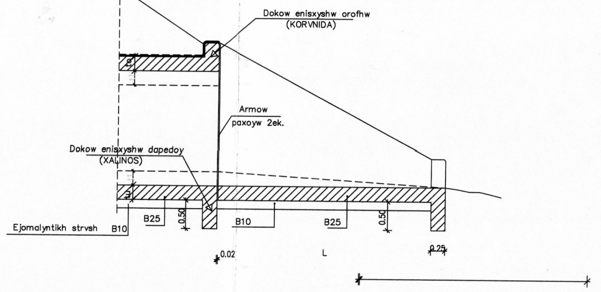


2. LEPTOMEREIA SYMBOLISMOY DIASTASEVN KIBVTOEIDVN OXETVN

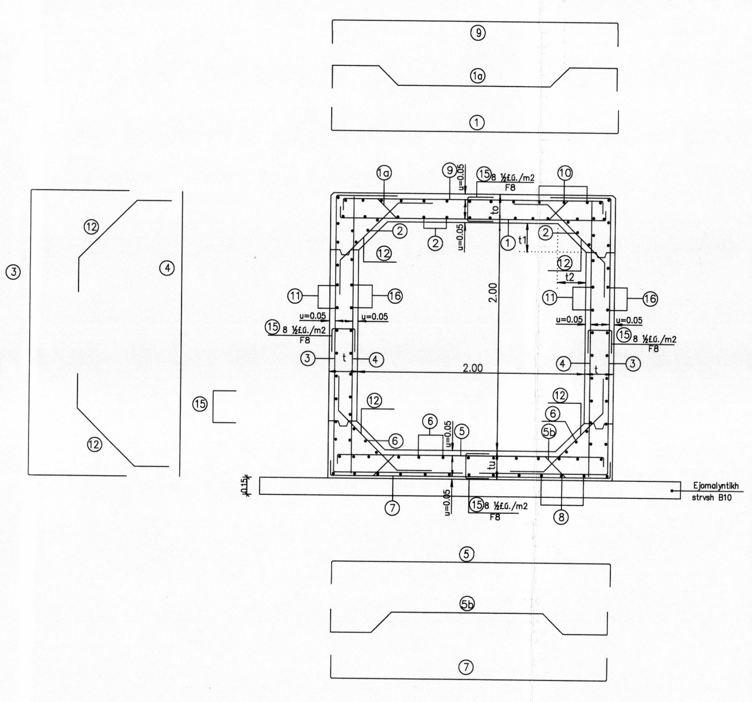


Telikh staumh diamorfvshw
A
A
E
YCOS EPIXVSHS
to
t1
t2
3
2
3
2
t
b
h
t
Staumh Genikhw Ekskafhw
Staumh Genikhw Ekskafhw
tu
1.00
1.00
0.15
Staumh Ekskafhw Uemelivn
Ejygiantikh strvsh apo xondrokokko yliko kala diabaumismeno
(ean apaiteitai apo thn edafotexnikh meleth toy ergoy kai me thn symfvnh gnvmh thw epiblechw)
Ejomalyntikh strvsh B10

3. TOMH A−A



4. DIATAJH OPLISMOY KIBVTOEIDOYS OXETOY
KL. 1:25



PINAKAS: DIASTASEVN – OPLISMOY – PROMETRHSHS OXETOY K2–2

	EIDOS EDAFOYS	KATHGORIA A									KATHGORIA B								
	YCOS EPIXVSHS E	0.40	1.00	2.00	3.00	4.00	5.00	6.00	8.00	10.00	0.40	1.00	2.00	3.00	4.00	5.00	6.00	8.00	10.00
DIASTASEIS	Paxow toixvmatow t	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35
	Paxow anv plakaw to	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35
	Paxow katv plakaw tu	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35
	Katakoryfh enisxysh t1	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35
	Orizontia enisxysh t2	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35	0.25	0.25	0.25	0.30	0.30	0.30	0.30	0.35	0.35
OPLISMOS	①	F14/38	F14/35	F14/30	F14/26	F14/24	F14/23	F14/23	F14/25	F14/22	F14/40	F14/36	F14/31	F14/30	F14/25	F14/24	F14/24	F14/27	F14/24
	(1a) 135.00° 135.00°	F14/38	F14/35	F14/30	F14/26	F14/24	F14/23	F14/23	F14/25	F14/22	F14/40	F14/36	F14/31	F14/30	F14/25	F14/24	F14/24	F14/27	F14/24
		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	②	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
	③	F10/15	F10/15	F10/14.5	F10/14	F10/13.5	F10/13	F10/13	F10/12.5	F10/12	F10/15	F10/15	F10/14.5	F10/14.5	F10/13.5	F10/13	F10/13	F10/12.5	F10/12
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	④	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
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	⑤	F14/39	F14/36	F14/29	F14/27	F14/26	F14/25	F14/24	F14/26	F14/23	F14/40	F14/37	F14/30	F14/28	F14/27	F14/26	F14/25	F14/28	F14/25
		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	(5b)	F14/39	F14/36	F14/29	F14/27	F14/26	F14/25	F14/24	F14/26	F14/23	F14/40	F14/37	F14/30	F14/28	F14/27	F14/26	F14/25	F14/28	F14/25
	⑥	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
	⑦	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
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	⑧	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
	⑨	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
	⑩	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
	⑪	F10/19	F10/19	F10/19	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
	⑫ 135.00° 135.00°	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
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	⑮	F8	F8	F8	F8	F8	F8	F8	F8	F8	F8	F8	F8	F8	F8	F8	F8	F8	F8
	⑯	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20	F10/20
PROMETRHSH	Aoplo Skyrodema (m3/m)	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.59	0.59	0.56	0.56	0.56	0.57	0.57	0.57	0.57	0.59	0.59
	Oplismeno Skyrodema(m3/m)	2.38	2.38	2.38	2.94	2.94	2.94	2.94	3.54	3.54	2.38	2.38	2.38	2.94	2.94	2.94	2.94	3.54	3.54
	Barow Oplismoy (Kg/m)	202.02	205.31	215.15	235.01	240.32	244.70	246.06	256.47	267.77	199.77	203.37	212.70	228.32	237.80	241.97	243.22	251.43	261.36
	Megisth Anaptyssomenh Tash Uemelivshw (Kg/cm2)	0.81	1.05	1.24	1.36	1.52	1.68	1.83	2.21	2.61	0.89	1.16	1.37	1.51	1.67	1.85	1.97	2.35	2.73

A/A	SXHMA RABDOY	– KATHGORIA A –																	
		YCOS EPIXVSHS E=0.40 M						YCOS EPIXVSHS E=1.00 M						YCOS EPIXVSHS E=2.00 M					
		OPLISMOS	ARIUM. TEMAX	MHKOS TEMAX	OLIKO MHKOS	BAROS ANAm	OLIKO BAROS	OPLISMOS	ARIUM. TEMAX	MHKOS TEMAX	OLIKO MHKOS	BAROS ANAm	OLIKO BAROS	OPLISMOS	ARIUM. TEMAX	MHKOS TEMAX	OLIKO MHKOS	BAROS ANAm	OLIKO BAROS
①	0.16 2.43 0.16	F14/38	2.63	2.75	7.24	1.21	8.75	F14/35	2.86	2.75	7.86	1.21	9.49	F14/30	3.33	2.75	9.17	1.21	11.08
(1a)	0.46 0.38 0.23 135.00° 1.31 135.00° 0.23 0.38 0.46	F14/38	2.63	3.45	9.08	1.21	10.97	F14/35	2.86	3.45	9.86	1.21	11.91	F14/30	3.33	3.45	11.50	1.21	13.90
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②	1.00 *(DIANOMH)	F10/20	13.04	1.00	13.04	0.62	8.04	F10/20	13.04	1.00	13.04	0.62	8.04	F10/20	13.04	1.00	13.04	0.62	8.04
③	1.00 2.40 1.00	F10/15	13.33	4.40	58.67	0.62	36.17	F10/15	13.33	4.40	58.67	0.62	36.17	F10/14.5	13.79	4.40	60.69	0.62	37.42
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④	2.40	F10/20	10.00	2.40	24.00	0.62	14.80	F10/20	10.00	2.40	24.00	0.62	14.80	F10/20	10.00	2.40	24.00	0.62	14.80
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⑤	0.16 2.43 0.16	F14/39	2.56	2.75	7.05	1.21	8.52	F14/36	2.78	2.75	7.64	1.21	9.23	F14/29	3.45	2.75	9.48	1.21	11.46
		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
(5b)	0.46 0.38 135.00° 0.23 1.31 0.23 135.00° 0.38 0.46	F14/39	2.56	3.45	8.85	1.21	10.69	F14/36	2.78	3.45	9.58	1.21	11.58	F14/29	3.45	3.45	11.90	1.21	14.38
⑥	1.00 *(DIANOMH)	F10/20	13.04	1.00	13.04	0.62	8.04	F10/20	13.04	1.00	13.04	0.62	8.04	F10/20	13.04	1.00	13.04	0.62	8.04
⑦	0.46 2.43 0.46	F10/20	5.00	3.35	16.75	0.62	10.33	F10/20	5.00	3.35	16.75	0.62	10.33	F10/20	5.00	3.35	16.75	0.62	10.33
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⑧	1.00 *(DIANOMH)	F10/20	12.10	1.00	12.10	0.62	7.46	F10/20	12.10	1.00	12.10	0.62	7.46	F10/20	12.10	1.00	12.10	0.62	7.46
⑨	0.16 2.43 0.16	F10/20	5.00	2.75	13.75	0.62	8.48	F10/20	5.00	2.75	13.75	0.62	8.48	F10/20	5.00	2.75	13.75	0.62	8.48
⑩	1.00 *(DIANOMH)	F10/20	12.10	1.00	12.10	0.62	7.46	F10/20	12.10	1.00	12.10	0.62	7.46	F10/20	12.10	1.00	12.10	0.62	7.46
⑪	1.00 *(DIANOMH)	F10/19	25.47	1.00	25.47	0.62	15.71	F10/19	25.47	1.00	25.47	0.62	15.71	F10/19	25.47	1.00	25.47	0.62	15.71
⑫	0.30 135.00° 0.85 135.00° 0.30	F10/20	20.00	1.45	28.97	0.62	17.86	F10/20	20.00	1.45	28.97	062	17.86	F10/20	20.00	1.45	28.97	062	17.86
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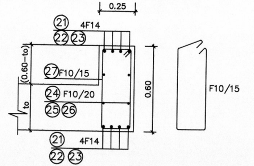
⑮	OLIKO MHKOS 0.60	F8	72.00	0.60	43.20	0.39	17.05	F8	72.00	0.60	43.20	0.39	17.05	F8	72.00	0.60	43.20	0.39	17.05
⑯	1.00 *(DIANOMH)	F10/20	19.00	1.00	19.00	0.62	11.71	F10/20	19.00	1.00	19.00	0.62	11.71	F10/20	19.00	1.00	19.00	0.62	11.71
		synolo 202.02 (Kg/m)						synolo 205.31(Kg/m)						synolo 215.15 (Kg/m)					

* TO MHKOS TVN DIANOMVN
ANAFERETAI SE PROMETRHSH

5. LEPTOMEREIA OPLISHS DOKOY ENISXYSHS OROFHS (KORVNIDA)
KL. 1:20



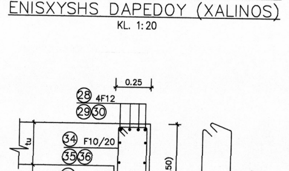
A/A	SXHMA RABDOY
㉑	0.50 2.40 0.50
㉒	0.50 2.50 0.50
㉓	0.50 2.60 0.50
㉔	2.40
㉕	2.50
㉖	2.60
㉗	0.17 0.52 0.52 0.10 0.17

PARATHRHSH OI OPLISMOI ㉒ ㉓ KAI ㉕ ㉖ TOPOUETOYNTAI ENALLAKTIKA GIA TA DIAFORA YCH EPIXVSHS

PROMETRHSH OPLISMOY DOKOY ENISXYSHS OROFHS (KORVNIDA)

YCOS EPIXVSHS E=0.40–2.00 M						YCOS EPIXVSHS E=3.00–6.00 M						YCOS EPIXVSHS E=8.00–10.00 M					
OPLISMOS	ARIUM. TEMAX	MHKOS TEMAX	OLIKO MHKOS	BAROS ANAm	OLIKO BAROS	OPLISMOS	ARIUM. TEMAX	MHKOS TEMAX	OLIKO MHKOS	BAROS ANAm	OLIKO BAROS	OPLISMOS	ARIUM. TEMAX	MHKOS TEMAX	OLIKO MHKOS	BAROS ANAm	OLIKO BAROS
F14	8.00	3.40	27.20	1.21	32.92	F14	–	–	–	–	–	F14	–	–	–	–	–
F14	–	–	–	–	–	F14	8.00	3.50	28.00	1.21	33.88	F14	–	–	–	–	–
F14	–	–	–	–	–	F14	–	–	–	–	–	F14	8.00	3.60	28.80	1.21	34.85
F10/20	4.00	2.40	9.60	0.62	5.95	F10/20	–	–	–	–	–	F10/20	–	–	–	–	–
F10/20	–	–	–	–	–	F10/20	4.00	2.50	10.00	0.62	6.20	F10/20	–	–	–	–	–
F10/20	–	–	–	–	–	F10/20	–	–	–	–	–	F10/20	4.00	2.60	10.40	0.62	6.45
F10/15	17.00	1.58	26.86	0.62	16.65	F10/15	18.00	1.58	28.44	0.62	17.63	F10/15	18.00	1.58	28.44	0.62	17.64
synolo 55.52 (Kg)						synolo 57.71 (Kg)						synolo 58.94 (Kg)					

6. LEPTOMEREIA OPLISHS DOKOY ENISXYSHS DAPEDOY (XALINOS)
KL. 1:20



A/A	SXHMA RABDOY
㉘	0.60 2.40 0.60
㉙	0.60 2.50 0.60
㉚	0.60 2.60 0.60
㉛	2.40
㉜	2.50
㉝	2.60
㉞	0.17 0.67 0.67 0.10 0.17
㉟	0.17 0.72 0.72 0.10 0.17
㊱	0.17 0.77 0.77 0.10 0.17

PARATHRHSH OI OPLISMOI ㉙ ㉚ ㉜ ㉝ KAI ㉟ ㊱

PROMETRHSH OPLISMOY DOKOY ENISXYSHS DAPEDOY (XALINOS)

YCOS EPIXVSHS E=0.40–2.00 M						YCOS EPIXVSHS E=3.00–6.00 M						YCOS EPIXVSHS E=8.00–10.00 M					
OPLISMOS	ARIUM. TEMAX	MHKOS TEMAX	OLIKO MHKOS	BAROS ANAm	OLIKO BAROS	OPLISMOS	ARIUM. TEMAX	MHKOS TEMAX	OLIKO MHKOS	BAROS ANAm	OLIKO BAROS	OPLISMOS	ARIUM. TEMAX	MHKOS TEMAX	OLIKO MHKOS	BAROS ANAm	OLIKO BAROS
F12	8.00	3.60	28.80	0.89	25.63	F12	–	–	–	–	–	F12	–	–	–	–	–
F12	–	–	–	–	–	F12	8.00	3.70	29.60	0.89	26.34	F12	–	–	–	–	–
F12	–	–	–	–	–	F12	–	–	–	–	–	F12	8.00	3.80	30.40	0.89	27.05
F10/20	6.00	2.40	14.40	0.62	8.93	F10/20	–	–	–	–	–	F10/20	–	–	–	–	–
F10/20	–	–	–	–	–	F10/20	6.00	2.50	15.00	0.62	9.30	F10/20	–	–	–	–	–
F10/20	–	–	–	–	–	F10/20	–	–	–	–	–	F10/20	8.00	2.60	20.80	0.62	12.90
F10/20	13.00	1.88	24.44	0.62	15.15	F10/20	–	–	–	–	–	F10/20	–	–	–	–	–
F10/20	–	–	–	–	–	F10/20	13.00	1.98	25.74	0.62	15.96	F10/20	–	–	–	–	–
F10/20	–	–	–	–	–	F10/20	–	–	–	–	–	F10/20	14.00	2.08	29.12	0.62	18.06
synolo 49.71 (Kg)						synolo 51.60 (Kg)						synolo 58.01 (Kg)					