

[1, 2].

[1, 2, 5].

[1, 2, 4].

52 180

13...18 %

4...7 %
[7, 9].

1,5 (5000 /)

1986 . : . 134

78 . $h_8 - h_8$

13 20...15 ^{3/} ,

10...8 ^{3/} 25 ^{3/}

18°; 900 1400 . h_8

4 3 ()

0,11...0,30 .

6- 5 (.1).

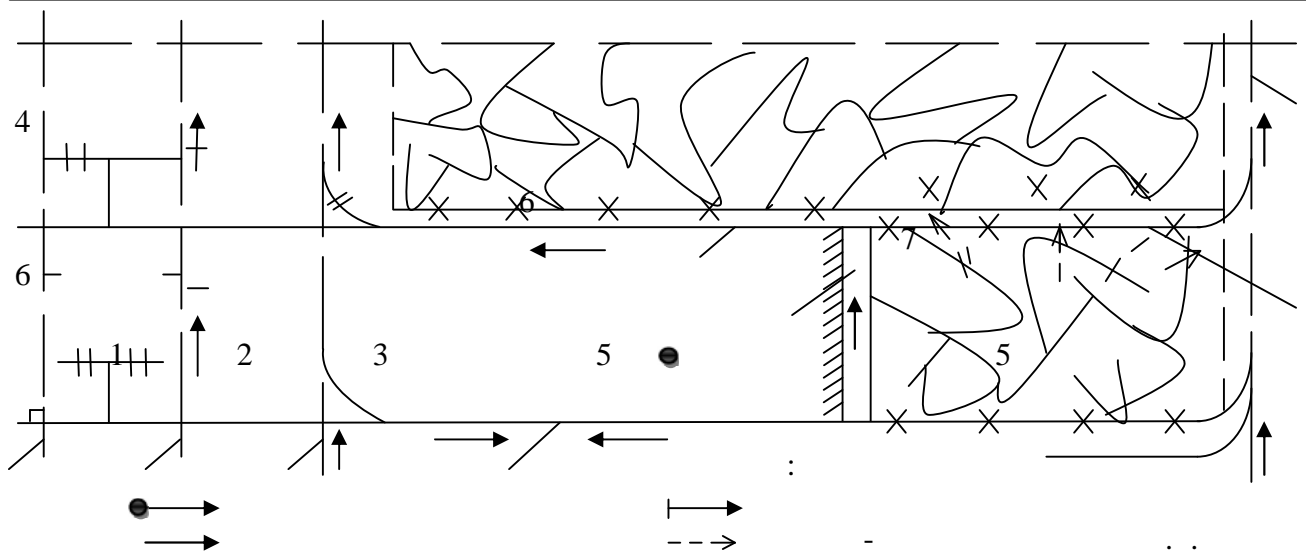
-68

1200...1500 / .

0,

1,

[8]. . 1.



. 1. : 1, 2, 3 - ; 4 - ; 5, 6 - ; 7 -

1.

, 3/	, 3/	0 = 3/ 1,	- 1, 3/	q , 3/	q _c , 3/			q , 3/	q , 3/
						q _c , 3/	q , 3/		
10	7,55	4,55	3,00	2,73	2,64	1,60	1,04	0,75	6,12
15	11,33	5,13	6,20	5,65	5,46	3,31	2,15	1,55	12,66
20	15,10	6,26	8,84	8,04	7,78	4,72	3,06	2,21	18,03
25	18,88	7,34	11,54	10,50	10,16	6,16	4,00	2,88	23,54

(3/):

$$q = q + q + q + q . \quad (1)$$

() (q_c , q , q) [8].

. 1. ' = 10, 15, 20 25 3/

... . 1 q 1434, 697, 556 374 / , max ' 10 3/ ...

, 3/ ,

$$q' = q' + q' = (1 - K)q + (1 - K)(q + q)(1 - K) + q(1 - K), \quad (2)$$

K , K , K , K - « » ; « » ;

[6], $K = 0,40$, $K = 0,25$,

. 2.

(), $q' = q'$

$$A_{\max} = 864 \cdot S \cdot V \cdot K (c - c_0) / (q' \cdot K), \quad (3)$$

S -

$$1,3 \quad S = 2,85^2; \quad V = 4 / ; \quad K =$$

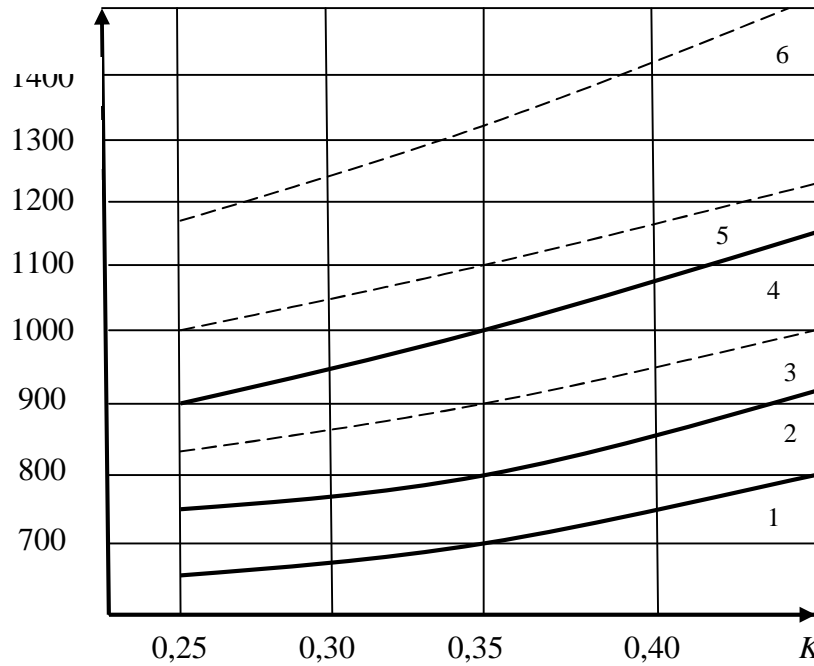
$$K = 1,25; \quad 0 -$$

$$= 1 \%, \quad 0 = 0 \%; \quad K = 1,4.$$

' = 20 3/ 2 . 2, ' = 25 3/ 2.

2. ' = 20 3/ q'

K	q' , 3/	K	0,25	0,30	0,35	0,40	0,45
		q' , 3/					
0,40	4,21	q'	6,03	5,63	5,23	4,82	4,42
		q'	10,24	8,84	9,44	8,94	8,43
		max	859	894	932	984	1069
0,60	2,81	q'	8,84	8,44	8,04	7,63	7,23
		max	995	1042	1094	1176	1216
		q'	7,43	7,03	6,63	6,22	5,82
0,80	1,40	max	1183	1251	1326	1414	1511



. 2.

: 1, 2, 3 - ' = 25 % / ...
 0,4; 0,6; 0,8; 4, 5, 6 - ' = 20 % / ... K ... 0,4; 0,6; 0,8

,
 1100...1300 /
 ' = 20 % / ...
 (K = 0,35...0,45)
 (K = 0,70...0,80).
 ,

():

$$Q = (q - q') \cdot \dots \quad (4)$$

= 6
 3;
 ' = 20 % / ... Q₁ = 64,8
 ' = 15 % / ... Q₂ = 39,34
 t = 6/0,6 = 10

$$t = 7/0,6 = 11,7$$

25...30 %
 - 8,63 % / , - 4,47 % / ,
 () ()

$$\Delta Q = (q - q') A; \quad (5)$$

$$J = \Delta Q / (365 \cdot t), \quad (6)$$

q' - () , 3/ , ; q ,

$$\frac{1000}{300} \cdot \dots - = 600$$

$$Z = 6 \quad t = Z / = 10$$

$$7 - t = 11,7$$

(5) (6)

$$J = 8219 \quad = 5,70 \quad = 3 \quad = 8,04 \quad ; \quad Q = 30$$

$$Q = 20 \quad ; \quad J = 4683 \quad = 3,25 \quad = 1,71$$

$$1200 \dots 1400 \quad (\quad \cdot \quad \cdot 2, \quad \cdot 2) \quad = 20 \quad - 556$$

() .

$$Q_2 = Q \cdot 21/1410$$

$$Q_{1-2} = 44667 \quad - 25468$$

[2]

$$2007 \quad 5 \quad 25 \text{ €}$$

$$2 \quad 10000 \quad / \quad 5 \text{ €} \quad = 50000 \text{ €}$$

$$= 30000 \text{ €} \quad 0 \%$$

$$= 5475 \text{ €}$$

$$Q_2 = 44667 \quad = - (+ 0,5) = 29573 \text{ €}$$

$$118 \quad \cdot \text{ €}$$

() 1 2,

$$2 \text{ €}$$

20 %, [1].

1.

2.

- 1. //-2007.- 8.- .46-47.
- 2. //-2008.- 1.- .47-48.
- 3. / // .-
- 2010.- 7.- .19-22.
- 4. / // .-2002.- 6.- .6-9.
- 5. / ,- : ,2007.- 292 .
- 6. / .- : ;
- 2004.- 163 .
- 7. : . ./ :- : ,2000.- 132 .
- 8. : ,1994.- 311 .
- 9. // .-2008.- 11.- .28-31.

10.10.2012 .