Basalt fibrous fiber concrete and his properties learning

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Abstract: ***Requirements for the efficiency and quality of construction work will be set for the development of production of fiber concrete and waste-based concrete products. In order to do this properly, it is necessary to reduce the total energy consumption of materials and structures, production development, materials, construction cost and labor, reducing the weight of buildings and structures, repair and their construction and operation.***

Keywords: ***Basalt stone basalt fiber, basalt reinforcement, fibrous concrete.***

Today's in the day modern the sky kiss buildings to build for high strong concretes get necessity increased It was going to go in place fiber to concrete has been need even separately importance occupation enough , exactly that's it problems eliminate reach in order to basalt fiber work release process from waste using high strong concrete to receive his composition and properties learning important from processes is one

Basalt fiber

As a result of choosing the composition of fiber concrete based on the basalt fiber that we have chosen above and studying its properties, we can know from the results obtained on this material that it is efficient to use it in the field of construction. Because exactly simple heavy concrete of the sample 5 mm size in the amount of 3% of the strength fiber to add as a result his strength to 40 percent increased exactly that can lift 10,000 kg concrete up to 14000 kg to increase we can achieve possible

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1.5 -cm _ basalt fiber fiber concrete to try results .

No	Fiber diameter mm	Fiber length mm	D concrete	d metal	Percent quantity	Press show - mustard Rc	average
1	17	15	11	3.5	0	80.3	91.7
2	17	15	10	4		100	
3	17	15	10	4		95	
1	17	15	10	4	1	122	114
2	17	15	9.5	3.5		120	
3	17	15	11.5	4.5		100	
1	17	15	9	3	2	112	107.3
2	17	15	11	3		100	
3	17	15	10	3.1		110	
1	17	15	10	4	3	124	124.6
2	17	15	10	4		125	
3	17	15	8	4		125	
1	17	15	9	4	4	115	120
2	17	15	10	3		125	
3	17	15	9	3		120	

1.5 - cm li basalt-reinforced concrete test results .

interest rate	average	
0	91.76	

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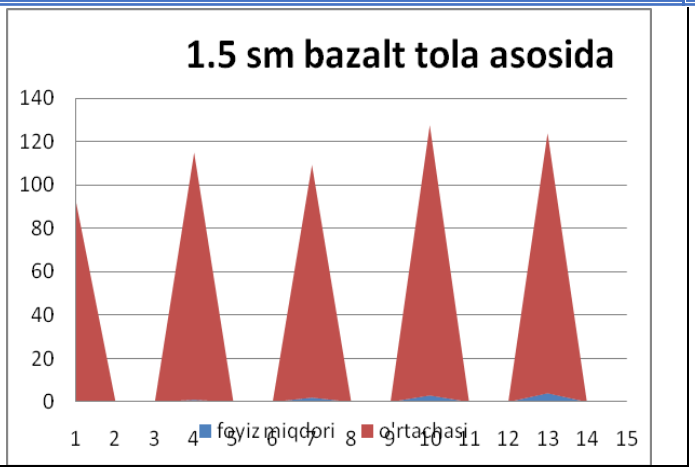
1	114
2	107.3
3	124.7
4	120



1 cm li basalt-reinforced concrete test results .

No	Fiber diameter µm	Fiber length mm	D concrete	d metal	Percent quantity	Press show-gichiRc	average
1	17	10	11	3.5	0	80.3	91.7
2	17	10	10	4		100	
3	17	10	10	4		95	
1	17	10	8	3.5	1	122	124.3
2	17	10	9.5	3.5		125	
3	17	10	11	3		126	
2	17	10	9.5	3.5		125	
3	17	10	8.5	3.5		126	
1	17	10	8	3.5	3	128	128
2	17	10	8.5	3		127	
3	17	10	9.5	3.5		129	
1	17	10	9.5	3.8	4	126	125
2	17	10	10	3		125	

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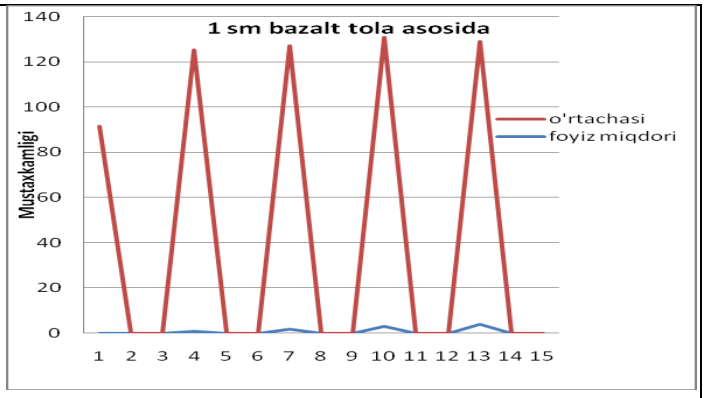
3	17	10	9	3		12 4	

Percent quantity	average
0	91.76
1	124.33
2	125.33
3	128
4	125



0.5 - cm li basalt-reinforced concrete test results .

No	Tol adi umrimm	Fib erlongigimme	D concrete	d metal	interest rate	show - gichi Rc	average
1	17	5	11	3.5	0	80.3	91.7
2	17	5	10	4		100	
3	17	5	10	4		95	
1	17	5	10.5	4	1	100	105
2	17	5	9	3.5		100	
3	17	5	12	3		115	
1	17	5	9.5	4	2	125	12
2	17	5	10	3		114	
3	17	5	9	3.5		128	

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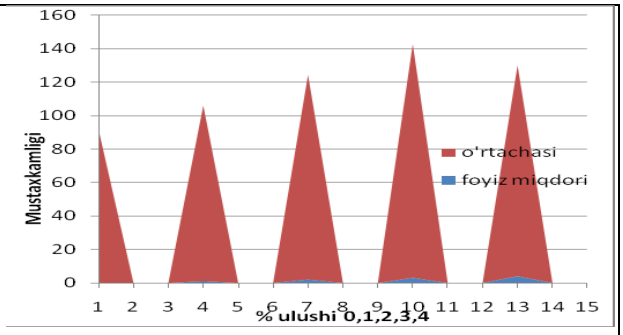
							2.3
1	17	5	9	4	3	140	139.6
2	17	5	8.8	3.8		137	
3	17	5	8	4		142	
1	17	5	8	3.5	4	126	126
2	17	5	9	3.5		125	
3	17	5	9	3.5		127	

0.5 cm li basalt fibrous fiber concrete to try results .

interest rate	Resilience in compression low average
0	91.76
1	105
2	122.3
3	139.7
4	126



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