Application of woven waste tires gabion wall as slope reinforcement for preventing landslide in laboratory

Publons ID	(not set)
Wos ID	WOS:000447800000067
Doi	10.1051/matecconf/201819503007
Title	Application of woven waste tires gabion wall as slope reinforcement for preventing landslide in laboratory
First Author	
Last Author	
Authors	Apriyono, A; Sumiyanto; Yanto; Hidayat, BA;
Publish Date	2018
Journal Name	4TH INTERNATIONAL CONFERENCE ON REHABILITATION AND MAINTENANCE IN CIVIL ENGINEERING (ICRMCE 2018)
Citation	1
Abstract	This study presents the application of woven waste tires as slope reinforcement for preventing slope failure, reducing construction costs and minimizing environmental hazards associated with the increasingly large amount of waste tires in Indonesia. To this end, we performed laboratory experiments using five stripe distance variations of woven tires - i.e. 3, 4, 5, 6, and 7 cm as ribs of a gabion wall. Five gabion wall samples sized 50 cm x 50 cm x 25 cm each were made. Each sample was fastened using one of these woven tires. A loading test was conducted on each gabion wall sample and the strength was determined from the maximum capacity before failure. The correlation between the gabion wall strength and strip distance - boulder diameter ratio was used to infer the most effective model. The result suggests that the strip distance - boulder diameter ratio of 0.4 is optimum with a corresponding strength value of 1718 kg.
Publish Type	Book in series
Publish Year	2018
Page Begin	(not set)
Page End	(not set)
Issn	2261-236X
Eissn	
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000447800000067
Author	Dr.Eng ARWAN APRIYONO, S.T, M.Eng