ABSTRACT

MIXTURE CHARACTERISTIC LASTON (AC-BC) SOFT GRADATIONS WITHSOME ASPHALT SHELL

By

ANI TRISILAWATI

In 2010, Ministry of Public Works Directorate General of Highways make changes to the General Specifications 2006. Changes in the mix of aggregate gradation Laston (AC) is divided by two gradations. This research aimed to investigate the characteristics of Marshall parameter due to variations changes of aggregate gradation in the mix Asphalt Concrete-Binder Course (AC-BC) soft graded with reference to the specifications of Highways, 2010. The research is done to difference test specimen gradation. The group of test specimen I are represented by the test middle limit specimen gradation. The group of specimens II are represented by gradation of upper limit. Whereas the group III of specimens are represented by gradations of 2 % pass beyond the upper limit.

Analysis of the results obtained from the evarage value of the following characteristics: Specimen I (Pb. 5,5%) Stabilitas 1182,43 Kg (Spek < 800Kg), Flow 3,43 Kg (Spek < 3.0Kg), MQ 352,83 g /cm² (Spek < 250g/cm²), VMA 19,70% (Spek < 14 %), VFA 48,79% (Spek < 6.3 %), VIM 10,09% (Spek < 3%-5%). Specimen II (Pb. 5,5%) Stabilitas 1081,45 Kg (Spek < 800Kg), Flow 2,50Kg (Spek < 3.0Kg), MQ 512,65 g /cm² (Spek < 250g/cm²), VMA 15,70% (Spek < 14 %), VFA 65,30% (Spek < 6.3 %), VIM 5,45% (Spek < 3%-5%). Specimen III (Pb. 5,5%) Stabilitas 1640,20Kg (Spek < 800Kg), Flow 4,77 Kg (Spek < 3.0Kg), MQ 349,89 g /cm² (Spek < 250g/cm²), VMA 15,58% (Spek < 14 %), VFA 55,19% (Spek < 6.3 %), VIM 6,98% (Spek < 3%-5%).

This proves that with the change of variation in aggregate gradation in the mix of AC-BC effect on the mixture characteristics.The value of the stability VMA, and MQ that has been qualified not guarantee obtaining the KAO, because VIM, VFA and Flow are not fulfilled.

Keywords: Asphalt Shell, Characteristic Marshall, Specifications Bina Marga 2010