ABSTRACT

MARSHALL STABILITY IN HOT MIXED ASPHALT HOT AC-BC ROUGH GRADING

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With the changes to the General Specifications on Loston's gradation aggregate mixture (AC) which is divided into two gradation, by the Ministry of Public Works Directorate General of Highways in 2010. This study aims to determine the characteristics of the Marshall parameter variations due to aggregate gradation mix changes of Asphalt Concrete- Binder Course (AC-BC) with rough graded reference to the Spesifikasi Bina Marga 2010. This research was conducted by differentiating gradations of the test specimen, including the first test specimen group I represented by the upper limit gradation, group II test object is represented by the middle of the boundary gradation, whereas group III test object is represented by gradations lower limit.

With the values of the Marshall parameters obtained at the specimen groups I, II and III, where the Marshall test results on the the third group did not meet all the requirements for specification. And it can be concluded with these results certainly do not get value of Kadar Aspal Optimum (KAO) of the third group of the test object. This proves that the value of the stability that has been qualified does not guarantee obtaining KAO, because the MQ and VFA values that do not meet specifications. As well as with the change of coarse aggregate gradation variations in mix AC-BC will affect the characteristics of the mix itself.

Keywords: Asphalt Concrete - Binder Course (AC-BC), Parameter Marshall, Rough Graded, Spesifikasi Bina Marga 2010.