

ABSTRAK

ANGGIK FATKHURROKHMAN, 2023

**MENINGKATKAN KARAKTERISTIK STABILITAS MARSHALL
LASTON AC-BC DENGAN VARIASI KADAR ASPAL 5%, 5,5%, 6% PADA
SUHU RENDAMAN 80°C**

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Lapis aspal beton AC-BC (Asphalt Concrete – Binder Course) terdiri dari campuran aspal keras dan agregat yang bergradasi menerus, bahan pengisi (filler) dan aspal (bitumen) sebagai bahan pengikat. Dalam penelitian ini dilakukan pencampuran aspal Laston AC-BC dengan bahan pengikat berupa aspal. Tujuan dari penelitian ini adalah mengetahui nilai karakteristik campuran lapis aspal beton AC-BC terhadap variasi suhu rendaman dan prosentase kadar aspal untuk mengetahui nilai stabilitas dengan pemakaian kadar aspal optimum. Penelitian ini menggunakan metode eksperimental dengan persentase kadar aspal 5%, 5,5% dan 6%. Pengujian awal dengan alat uji marshall untuk mendapatkan nilai stabilitas dan flow. Dari hasil uji kuat tekan yang telah dilakukan terhadap campuran aspal Laston AC-BC dengan variasi suhu rendaman 80° dan prosentase kadar aspal 6% mempunyai nilai yang lebih tinggi yaitu mencapai nilai 2,968 kg dibandingkan dengan kadar aspal 5% dan 5,5% yang mempunyai nilai lebih rendah. Sehingga semakin tinggi prosentase kadar aspal dan suhu rendam 80° akan semakin tinggi nilai stabilitasnya.

Kata Kunci : *Kadar Aspal, Stabilitas, Kelelehan*

ABSTRACT

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IMPROVED THE STABILITY CHARACTERISTICS OF LASTON AC-BC
MARSHALL WITH A VARIATION IN ASPHALT CONTENT OF 5%,
5.5%, 6% AT A BATH TEMPERATURE OF 80°C

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Asphalt concrete AC-BC (Asphalt Concrete – Binder Course) layer consists of a continuously graded mixture of hard asphalt and aggregate, filler and bitumen as a binder. In this study, the mixing of Laston AC-BC asphalt was carried out. with bituminous binder. The purpose of this study was to determine the characteristic value of the asphalt concrete mix AC-BC on immersion temperature variations and the percentage of asphalt content to determine the value of stability with the use of optimum asphalt content. This study used an experimental method with a proportion of asphalt content of 5%, 5.5% and 6%. Preliminary testing with marshall test equipment to obtain stability and flow values. From the results of the compressive strength test that has been carried out on the Laston AC-BC asphalt mixture with an immersion temperature variation of 80° and a percentage of 6% asphalt content has a higher value, reaching a value of 2,968 kg compared to 5% and 5.5% asphalt content which has lower value . So that the higher the percentage of bitumen content and the immersion temperature variation of 80°, the higher the stability value.

Keywords : Asphalt Content, Stability, Melting