

**Karakteristik Campuran Aspal Beton (AC-WC) Pen60/70 Dengan
Penambahan Abu Daun Bambu Sebagai Campuran *Filler***

SKRIPSI

Sebagai salah satu syarat untuk mencapai gelar Sarjana Teknik
Jurusan Teknik Sipil



Disusun oleh :

EVA DIYANA

3336160044

JURUSAN TEKNIK SIPIL

FAKULTAS TEKNIK

UNIVERSITAS SULTAN AGENG TIRTAYASA

CILEGON – BANTEN

2020

Characteristics of Pen60 / 70 Concrete Asphalt Concrete (AC-WC) With Addition of Bamboo Leaf Ash as Filler Mixes

Eva Diyana

ABSTRACT

Development the technique along with technology development found mankind. Most construction of roads use flexible pavement type of asphalt with oil and combined with a fastener aggregate and filler or filler mixed asphalt. Many attempts have been made to raise the endurance of asphalt to vehicles, one by improving the quality of asphalt as a fastener concrete. Filler is one of the constituents or material has to exist at hot mixed asphalt . Hence, there must be new innovations, using alternative material like bamboo's leaves ashes as filler for mixing for asphalt to reduce waste Indonesia particularly in Banten. The type of asphalt that being used is AC-WCc pen 60 / 70 that had been reviewed from the endurance and the age of resilience. The purpose of this research is to find out characteristic of Marshall testing from AC-WC Asphalt using bamboo's leaves ashes as filler and also to find out opium levels of the mixture with bamboo leaves waste added as a filler. Variations of bamboo leaves used in this marshall testing is 0%, 1%, 2%, and 3%. Research shows that the optimal level of leaves ashes filler found on % 1 value and asphalt level of 6,75 % and 2008,33 kg of stability value; 3,71 of vim value; 83,06 of VFA value; 4 of flow value; 19,60 of VMA value; 502,08 of MQ value. The research showed the value of stability , VIM , VFA , Flow, VMA and MQ meet the specifications required in Spesifikasi Umum Divisi 6 Bina Marga tahun 2018

Key: Bamboo Leaf Ash, Asphalt, Marshall