

**EVALUATION OF THE RELATIONSHIP BETWEEN THE
PAVEMENT SKID RESISTANCE AND TRAFFIC SAFETY-CASE
STUDY FOR IZMIR METROPOLITAN AREA**

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ABSTRACT

The main function of a highway is to transport people and goods in a safe, comfortable and economic manner. Highway user safety is the most important issue above these functions. Safety of traffic is related to many highway elements including pavement surface friction. In order to ensure safe highway travel, pavement surface must have sufficient skid resistance to reduce the possibility of skidding or loss of vehicle control. Skid resistance of a given surface is measured by the coefficient of friction.

This study is aimed to determine the relationship between the surface properties of pavement around Izmir Metropolitan area and the traffic accidents. The observation points, which are critical from traffic safety point of view, have been determined by the General Security Directorate of Izmir based on traffic accident reports. The skid resistance as well as the texture properties of the surfaces has been determined by the sand patch method and dynamic friction tester respectively.

KEY WORDS: Skid resistance, Traffic safety, friction