

Study about comprehensive assessment of pedestrian road pavement in urban areas

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This study was conducted about comprehensive assessment method that enabled appropriate maintenance management with pedestrian road pavement as a target. Physics property such as sliding, hardness, and flatness were measured as an objective road index, and correlation among various measurement methods was analyzed. In order to utilize such physics test methods in the future actual-size test, they were systematized into several types according to their properties. Furthermore, in the case with subjective assessment of easy walking, sensory test that used walking, baby car, and wheel chair, was conducted on test road surface about flatness, in order to analyze the relationship among human sensorial property, easy walking, and flatness assessment method. As a result, it was revealed that flatness property that contributed to walking human sense could be described the best by using IRI.

Keywords: pedestrian road pavement, easy walking, assessment, sliding, hardness, flatness