

Research regarding low vibration pavement structures

[Point]

To reduce traffic vibration and improve road environment, sometimes pavements are repaired, however, recently, since vehicles are getting larger, traffic vibration's worsening is predicted, therefore, pavement technology, which highly effective to reduce traffic vibration is necessary. Moreover, regarding current pavement vibration measure technologies, roadbed improvement is one of the effective vibration measure, however, since the construction period is long, prolonged traffic control is necessary, and also it is a large-scaled construction. For these reasons, it is difficult to introduce as an actual measurer. Then, we examined the development of low vibration pavement, which is possible for short-term construction.

As a result, we developed, low vibration pavement, which is possible for short-term construction and vibration reduction efficiency is more than 2 ~ 3dB. In addition, we could grasp vibration characteristics of the newly developed low vibration pavement.

Keyword : low vibration pavement, traffic vibration, vibration level, vibration measuring