DEVELOPMENT OF A RAVELLING TEST FOR ASPHALT

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ABSTRACT
The test methods for four scuffing devices had been written up as technical specification PR CEN/TS 12697-50, Resistance to scuffing, which was reviewed by the DRaT project, under CEDR Call 2014: Asset Management and Maintenance. Existing knowledge on scuffing was reviewed and a round robin testing programme was undertaken with four replicate samples of three variations each of three mixture types. A statistical analysis found that results from the different devices could not be accurately correlated, either for specific asphalt mixture types or overall, nor could specific designs of scuffing equipment be identified as being best for identifying the scuffing-resistance of asphalt mixtures. Nevertheless, enhancements to PR CEN/TS 2697-50:2016 were identified that can be made to make a better and more unified document without rejecting any of the designs of scuffing apparatus. A copy of the revised version of the standard was given in the final report.