Labelling road surfaces

An initiative from the Netherlands presented at the February and September 2017 sessions of the UNECE Working Party on Noise (GRB)*:

http://www.unece.org/fileadmin/DAM/trans/doc/2017/wp29grb/GRB-66-05e.pdf

http://www.unece.org/fileadmin/DAM/trans/doc/2017/wp29grb/GRB-66-05e-Add.1.pdf

*GRB is a subsidiary body of the World Forum for Harmonization of Vehicle Regulations (WP.29)

Objectives and criteria

Labelling is a method to encourage progress in and to stimulate optimisation of road surfaces based on the following criteria:

- Skid resistance for road safety;
- Noise reduction for public health;
- Rolling resistance for sustainability and economics (of road users);
- Lifespan for availability, durability and economics (of road owners).

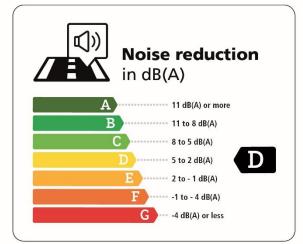
Envisaged benefits (as reported by the Netherlands based on a pilot project)

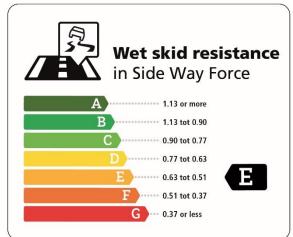
- Skid resistance risk of accidents 3x smaller at a proper skid resistance;
- Noise 9 dB(A) noise reduction seems possible by optimum tyreroad combination (EU-project 'Safe and Silent Road Traffic');
- Rolling resistance 10-30% reduction rolling resistance → 2-6% fuel savings → saving 488 mln. litres and 1000 kton CO₂ (NL)
- Lifespan from 9 years to 10-12 years (i.e. for porous asphalt)

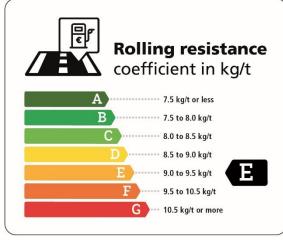
Road surface label

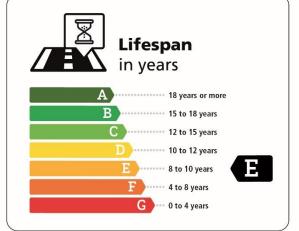


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GRB considerations

- Welcomed the presentation and reiterated the importance of a holistic approach to sound emissions in the system 'tyre-road surface';
- Noted that the scope of the 1958 and the 1998 Agreements (wheeled vehicles, equipment and parts thereof) does not cover road surfaces and, therefore, only non-legally binding document, like a Recommendation or Resolution, might address the issue;
- Noted that other Working Parties under ITC, like GRRF, GRSG and SC.1, might be better placed to pursue the project and should be consulted;
- Question to SC.1 representatives:

Do you agree that the Dutch initiative would fall within the scope of SC.1 and could be considered further?