

## Noise measurement of freight wagons according to TSI CR Noise



Passing of the measuring train consisting of several different types of freight wagons at the noise measuring point between Kerzers and Müntschemier

### Factsheet 2.00027

#### Detail

#### Project information

- Customer: Graaff Transportation  
On Rail / TATRAVAGÓNKA  
Trinity / IRS / ŽOS Trnava  
AAE / LOSTR / Wagony widnica
- Time frame: 7/2006 till now

#### Scope of supply of PROSE

- Marshal of the measuring train
- Organization of the measuring runs together with the operator BLS
- Preparation and building up of the measuring equipment
- Execution of the measurements
- Evaluation of the measuring results
- Organisation of the creation of an EU-style examination certificate together with a Notified Body

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### Requirements

The technical specification for interoperability concerning the noise of rolling stock of conventional rail systems (TSI CR Noise) demands a confirmation for all new and modernised rail vehicles. This document has to prove that the noise generated by the vehicles is within the given limit values.



View of the noise measurement point with microphones on the left and on the right side of the track

### Realisation

In order to reduce the rising costs effectively, PROSE decided to perform a bundled noise measurement according to TSI CR Noise for freight wagons. Thus several wagons types of different manufacturers were marshalled together to a measuring train. PROSE performed the measurement on the line located in the west of Bern between Kerzers and Müntschemier together with the operator BLS. This line was spe-

cially modified to perform noise measurements. The operation on this single track line is much more efficient as on other TSI-lines in Europe.

### Customer Advantage

The execution of such noise measurements is attractive, because the pooling of measurements of the different wagon types lowered the costs for each individual wagon type considerably. Furthermore it is attractive for the manufacturers because all they have to do is to provide the vehicles. All other services were provided by PROSE. PROSE accomplished the measurements, assigned BLS for the execution of the train operation and organized the creation of an EU examination certificate together with a Notified Body.



Approach of the measuring train towards the noise measuring point

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