

Simplified running dynamic type test of the articulated railcar for Regionalverkehr Mittelland



LRV for Regionalverkehr Mittelland between two measuring runs for the running dynamic type test in the station of Sargans

Customer Requirement

For the articulated railcar (GTW) for Regionalverkehr Mittelland (RM) as well as for the nearly identical railcar for THURBO AG, the running dynamic approval should be achieved by appropriate measurements. The effort for this tests should be limited to the absolute necessary.



The measuring equipment for recording and online limit value monitoring

Realisation

For extension of approvals or for approval of vehicles, that are similar to already approved vehicles, UIC 518 as well as prEN 14363 allow simplified validation tests. The detailed scope of the necessary tests is applied for and discussed with the approval authorities. In the case of the

articulated railcar for Regionalverkehr Mittelland (RM) it was possible to get the approval by performing a simplified running dynamic measurement with only measuring the running stability. Thus it was possible to perform the measurement within one day after one day of setting up the measuring equipment on the train. Only the vehicle speed and the lateral bogie accelerations had to be measured and recorded.

Customer Advantage

By using the potential of simplification of the measurement, it was possible to achieve a quick and cost-efficient running dynamic approval. The vehicle was only required for two days.



The measurements on the GTW RM were also valid for a limited approval of the GTW THURBO, on which PROSE will perform later on a complete running dynamic type test to achieve an approval in Germany and Switzerland.

Factsheet 2.00020

Detail informations

Scope of supply

- Specification of simplified running dynamic type tests in cooperation with the vehicle supplier and the approval authorities in order to achieve a cost-efficient approval
- Preparation and organisation of measurements
- Performance of the measurements in sole responsibility or in cooperation with the vehicle supplier
- Evaluation of the measurements results according to the specification and the relevant standards or UIC codes (UIC 513, UIC 518, prEN 14363, etc.)

References

- **GTW Regionalverkehr Mittelland**
Simplified running stability measurements for approval of the vehicle
- **GTW for the "Seetal" (SBB)**
Performance of a simplified running dynamic type test and comfort measurements with previous optimization phase
- **GTW OSE**
Running stability measurements for running dynamic approval of the narrow gauge vehicles for the Greek railways
- **FLIRT (SBB)**
Performance of running stability measurements for approval of the four-part EMU with jacobs bogies

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