

TÜV NORD Mobilität GmbH & Co. KG
Gruppe LADUNGSSICHERUNG
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30519 Hannover

Testing Report

Safety of load system for **Pipe transport**

Nr.: LS 1108652

1. Client: DHATEC, Line pipe Logistic Solutions
Elskensakker 8
5571-SK, Bergeijk
Niederlande

2. Test object DHATEC System88 (Rail)
Documentation pages 1 - 33, As of 28.10.2008

3. Fundamental principles

The adjustable transport system DHATEC System88 will be used for the transport of pipes. The fundamental principles for the calculation are based on the load description (annex II Convention concerning International Carriage by Rail - RIV), the EBO and the description of DHATEC System88 from the manufacturer.

3.1. Legal requirements

The legal requirements on the securing of loads are specified in the loading regulations and the annex II RIV.

The technical regulations on implementation and calculation are contained in specification RIV and EBO.

The necessary load securing forces are derived from RIV:

- 4,0 x G in direction of travel (shunt over the hump)
- 1m/s² in direction of travel under breaking
- 0,5 x G perpendicular to direction of travel and
- 0,3 x G perpendicular to driving direction (vibration)

G is the force of gravity of the secured load.

4. Verification

The layout and functioning is verified in the documentation. Following the testing and calculation of System88 as well as the single components, the factual and calculated accuracy can be verified. The safety of load of the System88 fulfils the specifications of the annex II, RIV.

5. Further applicable documents

Project documentation SYSTEM88, draft and calculation for truck, Concept 28/10/2008, 33 pages.

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Gruppe Ladungssicherung



Bastian Bierhoff

Hannover, 17.11.2008

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