

**TÜV NORD Mobilität GmbH & Co. KG**  
**Gruppe Ladungssicherung**  
**Am TÜV 1**  
**30519 Hannover**

# **Testing Report**

## **Safety of load system for** **Pipe transport**

**Nr.: LS 0809611A1**

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

**2. Test object** DHATEC System88 ( LKW )  
Documentation pages 1 - 31, As of 21.07.2008

### 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 VDI 2700 "Securing of loads on road vehicles" 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 (German) StVO and StVZO regulations.

The technical regulations on implementation and calculation are contained in specification VDI 2700, "Securing of loads on road vehicles".

The necessary load securing forces are derived from VDI 2700 section. 1.3.2.1, as follows:

- 0,8 x G in direction of travel
- 0,5 x G opposite-direction of travel
- 0,5 x G perpendicular to direction of travel and
- 0,7 x G perpendicular to direction of travel for non-stable goods.

G is the force of gravity of the secured load.

All following sections numbers refer to VDI 2700.

#### 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 VDI 2700 and DIN-EN 12195-1.

#### 5. Further applicable documents

Project documentation System88, draft and calculation for truck, Concept 21/07/2008, 31 pages.



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