

**Continuously cast rods loaded on high-sided wagons with metal or wooden floors**

Single wagons and groups of wagons

Wagons in block trains or combined transport  
Wagons with long-stroke shock absorbers

**Type of goods**

Continuously cast rods of various diameters and lengths between 148 mm and 260 mm

**Wagons**

High-sided wagons with metal or wooden floors

**Method of loading**

Rods loaded so that they nest together, over a maximum of three layers, resting on supporting scotches: loaded in a compact and central manner, distributed over the entire loading deck in both a transversal and longitudinal direction.

- ① In general, the load must comprise units of the same diameter and of similar length:
  - If the units loaded have different diameters and lengths, place
    - the units with greater diameter or length on the first layer,
    - the units of the other layers in decreasing order in terms of diameter and length.
  - To avoid exceeding the wheel load ratio, units forming a layer must have the same diameter and be of a comparable length.

- ② 4 inserts made of wood in accordance with EN 338, strength class at least C24, of rectangular cross-section, at least 6 cm thick and at least 10 cm wide, made of a single piece.  
Supporting scotches, where necessary nailed to the floor, without lateral play (apart from mounting tolerances) on the intermediate crossbars (located between the side wall solebars), distributed in as uniform a manner as possible over the length of the load.  
The units loaded on the first layer must project by at least 50 cm over the inserts at the ends.

- ③ To secure the load (trapping unit), use of two synthetic or woven straps, with a minimum breaking strength (straight pull) of 5000 daN, and a minimum pre-tension force of 500 daN.

- ④ Timbers. The remaining space between the wagon's side walls and the units at each end of the first layer is distributed equally and is blocked off using timbers nailed to the floor inserts:

8 timbers:  
4 on each side

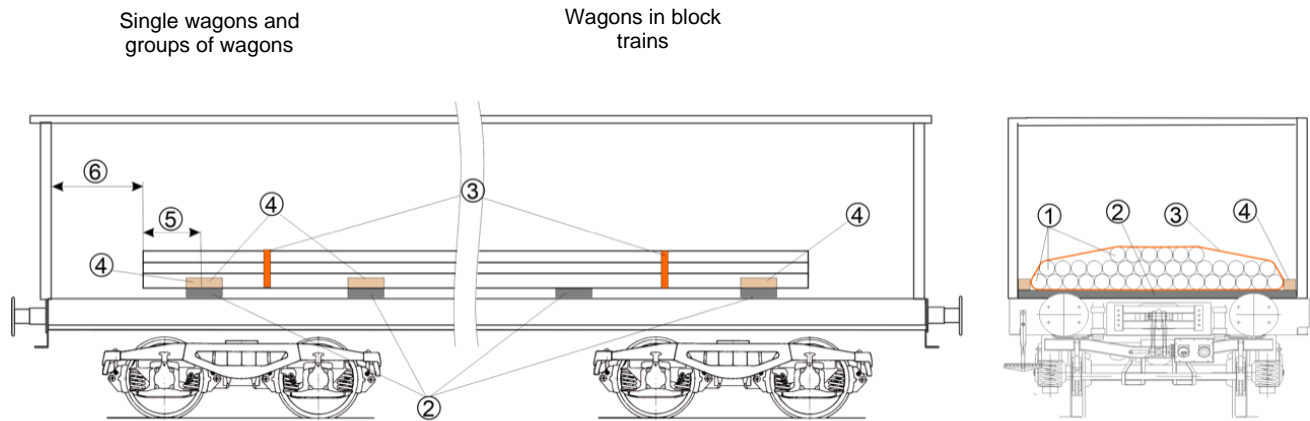
4 timbers:  
2 on each side, mounted on the  
inserts at the ends

- ⑤ The rods protrude beyond the supporting scotches by at least 50 cm

- ⑥ Minimum clearances:

50 cm

0 cm



**Securing**

Load assembled in units, without direct or indirect fastening, with the possibility of sliding lengthways in the wagon in accordance with Chapter 5.5 of Volume 1.

**Additional indications**

Securing of the load according to EN 16860

See following loading information sheets:

- 0.1 Load of wagons
- 0.6 Single-use bindings for securing the load
- 0.8 Friction and coefficients of friction

**Behaviour of load during buffing impacts as per table 4**

Buffing impact tests and test runs have been carried out and the results have been published in Test Report No. 3011-29.2 dated 22/8/2019 by the Romanian Railways' certification body.

**Information on a loading example**

Transport for all UIC railway undertakings.

**Issuing Railway Undertaking:**

UTZ – Unicom Tranzit SA

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**Loading example:**

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