

## Proposed amendment to Appendix 11 to the GCU

### Record of amendments

Amended by	Date	Paragraph	Amendment
Francesco GARRISI	17 January 2023	2.7	First draft
TTI WG decision	22 March 2023	2.7	Following the TTI WG meeting of March 2023
WU SG decision	23 May 2023	2.7	WU SG approval
GCU JC decision	07 June 2023	2.7	GCU JC approval

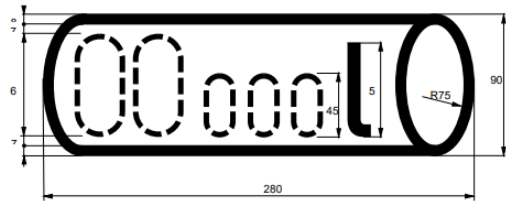
<b>Title</b>	Updating the “volumetric capacities” pictogram, in accordance with the EN 15877-1:2012+A1:2018 standard
<b>Proposed amendment made by: RU/keeper/other:</b>	Mercitalia Rail/Sub-working Group Appendix 11
<b>Proposed amendment to:</b>	<input type="checkbox"/> Appendix 9 <input checked="" type="checkbox"/> Appendix 11
<b>Proposer:</b>	Francesco GARRISI – Mercitalia Rail
<b>Location, date:</b>	Florence, 17.01.2023
<b>Concise description:</b>	Give two separate pictograms relating to the volumetric capacity for tank/cask wagons and hopper/box wagons

## 1. Starting point (current situation):

### 1.1. Introduction

2.7 shows how to indicate the volumetric capacity.

#### 2.7 Sign indicating the capacity of tank wagons and cask wagons



**Position:** On the left of each side wall; for tank wagons, on the tank itself or on special boards.

**Meaning:** Capacity in m<sup>3</sup>, hl or l

For tank wagons, this sign should also specify the commodities that the vehicle is authorised to carry, if required by the RID for the carriage of dangerous goods.

### 1.2. Mode of operation

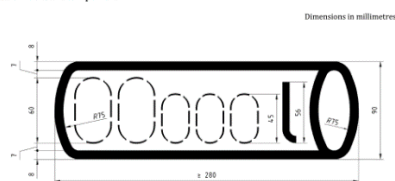
The “position” and “meaning” explanation sections refer to tank wagons and the unit of measurement used is m<sup>3</sup>

### 1.3. Anomaly/description of problem

Clause 4.5.16 “Volumetric capacity” of EN 15877-1:2012+A1:2018 (Railway applications – Marking on railway vehicles – Part 1: Freight wagons) provides for two different markings (on pages 56 and 57) regarding tank/cask wagons and hopper/box wagons.

EN 15877-1:2012+A1:2018 (E)

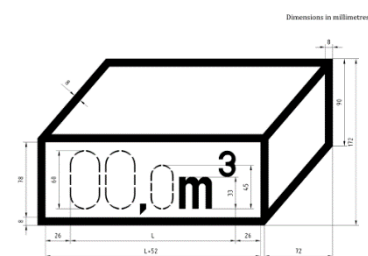
#### 4.5.16 Volumetric capacities



NOTE If exceeding 99,999 litres add an extra leading digit.

Figure 41a — Tank and cask wagons

EN 15877-1:2012+A1:2018 (E)



**Position:** On the left of each side of the wagon, wall or the tank itself or on special panels.

**Meaning:** Capacity in m<sup>3</sup> or litres according to the type of wagon.

NOTE If exceeding 99,9m<sup>3</sup> or 99,999 litres add an extra leading digit.

Figure 41b — Hopper and box wagons

**1.4. Does this concern a recognised code of practice\* (e.g. DIN, EN)?**

No  Yes (state which): EN 15877-1:2012+A1:2018 (Railway applications - Marking on railway vehicles - Part 1: Freight wagons)

\* "Code of practice: a written set of rules that, when correctly applied, can be used to control one or more specific hazards."  
(source: Regulation EC 352/2009, Article 3)

"Technical provisions laid down in writing or conveyed verbally and pertaining to procedures, equipment and modes of operation which are generally agreed by the populations concerned (specialists, users, consumer and public authorities) to be suitable for achieving the objective prescribed by law, and which have either proven their worth in practice or, it is generally agreed, are likely to within a reasonable period of time" (translation/source: BMJ Handbuch der Rechtsförmlichkeit – German Ministry of Justice)

**2. Target situation****2.1. Elimination of anomaly/problem (goal)**

Align the GCU Appendix 11 pictograms and explanations to comply with the standard.

### 3. Amendments/additional text (relates only to proposed amendments to GCU Appendix 11):

Amendment colour code:

**Black:** Current text, for info and remains unchanged

**Red:** new text

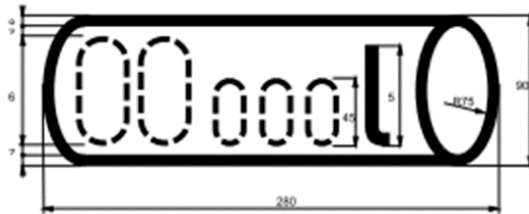
**Blue:** (if crossed out): text to be deleted

Appendix 11

#### 2.7 Signs indicating the volumetric capacity of ~~tank wagons and cask wagons~~ and the type of goods permitted for transport.

Figure 1

Tank and cask wagons



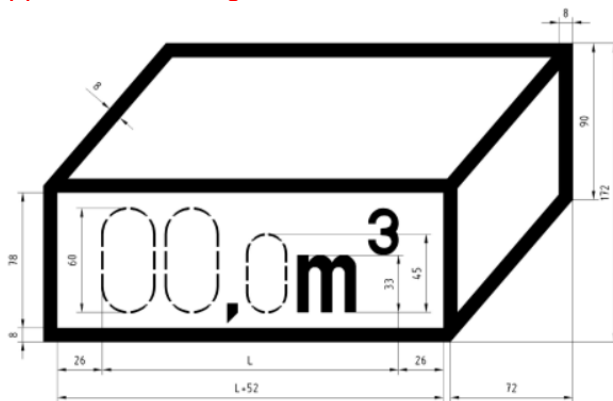
**Position:** On the left of each side wall; for tank ~~or battery~~ and cask wagons, on the tank itself or on special boards.

**Meaning:** Capacity in ~~m<sup>3</sup>, hl or l~~

For tank wagons, this sign should also specify the commodities that the vehicle is authorised to carry, if required by the RID for the carriage of dangerous goods

Figure 2

Hopper and box wagons



**Position:** On the left of each side wall; for hopper and box wagons, on the tank itself or on special boards.

**Meaning:** Capacity in m<sup>3</sup> according to the type of wagon

N.B.: if 99.9m<sup>3</sup> are exceeded, add an additional first digit.

**4. Reason:**

**5. Assess potential positive/negative impacts**

*Assess the possible positive and negative impacts (operations, costs, administration, interoperability, safety, competitiveness, etc.), using a scale from 1 (very low) to 5 (very high):  
Justify observations:*

## 6. Safety appraisal of proposed amendment

Description of actual/target system, and scope of change to be made (see points 1 and 2).

Performance of risk analysis is unnecessary where only recognised standards are implemented.

Risk analysis conducted by:

<b>6.1. Does the change have an impact on safety?</b>	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
Reason: Incorrect understanding of the text's meaning could lead to the rule and the plate indications being applied incorrectly	
<b>6.2. Is the change significant?</b>	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Reason: The indications are already present but need clarifying	
<b>6.3. Determining and classifying risk:</b>	<input type="checkbox"/> deleted
6.3.1. Effect of change in normal operation: 6.3.2. Effect of change in the event of disruption / deviation from normal operation: 6.3.3. Potential misuse of system:  <input checked="" type="checkbox"/> No  <input type="checkbox"/> Yes (describe possible misuse):	
<b>6.4. Have safety measures been applied?</b>	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes
For each type of risk, one of the following risk acceptance criteria is to be selected: <ul style="list-style-type: none"> <li>• Code of practice</li> <li>• Use of reference system</li> <li>• Explicit risk estimate</li> </ul> Indications given in the GCU Appendix 11, 2.7	
<b>6.5. Has a risk analysis been submitted to the assessment body?</b>	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes
Assessment body: Attach the verdict reached by the assessment body	[appendix]