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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### 184th session

Geneva, 22-24 June 2021

Item 4.6.4. of the provisional agenda

#### 1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRSP

## **Proposal for a new 01 series of amendments to UN Regulation No. 134 (Hydrogen and Fuel Cell Vehicles (HFCV))**

### **Submitted by the Working Party on Passive Safety \***

The text reproduced below was adopted by the Working Party on Passive Safety (GRSP) at its sixty-fifth session (ECE/TRANS/WP.29/GRSP/68, para. 25). It is based on ECE/TRANS/WP.29/GRSP/2020/17 not amended. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their June 2021 sessions.

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\* In accordance with the programme of work of the Inland Transport Committee for 2021 as outlined in proposed programme budget for 2021 (A/75/6 (part V sect. 20) para 20.51), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



*List of contents and annexes, amend to read:*

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### Annexes

- Part 1 Model I - Information document No ... on the type approval of a hydrogen storage ..."

*Paragraph 4.2., amend to read:*

"4.2. An approval number shall be assigned to each type approved in accordance with Schedule 4 of the Agreement (E/ECE/TRANS/505/Rev.3)."

*Insert a new paragraph 7.1.7., to read:*

"7.1.7. Identification of hydrogen fuelled vehicles.

On vehicles of the categories M<sub>2</sub>/N<sub>2</sub> and M<sub>3</sub>/N<sub>3</sub>, equipped with a compressed hydrogen system, labels shall be installed as specified in Annex 6.

These labels shall be placed on the front of the vehicle and on the left side as well as on the right side of the vehicle; for the side in vicinity of a front door, if available. If there is no front door available, the label must be placed on the first third of the vehicle length. In addition, for vehicles of category M<sub>2</sub> and M<sub>3</sub>, a label shall be fixed to the rear of the vehicle."

*Insert new paragraphs 13.1. to 13.6., to read:*

"13.1. As from the official date of entry into force of the 01 series of amendments, no Contracting Party applying this UN Regulation shall refuse to grant or refuse to accept UN type approvals under this UN Regulation as amended by the 01 series of amendments.

13.2. As from 1 September 2022, Contracting Parties applying this UN Regulation shall not be obliged to accept UN type approvals to the original version of this Regulation that were first issued on or after 1 September 2022.

- 13.3. Until 1 September 2024, Contracting Parties applying this UN Regulation shall accept UN type approvals in its original form that were first issued before 1 September 2022.
- 13.4. As from 1 September 2024 Contracting Parties applying this Regulation shall not be obliged to accept type approvals issued to the original version of this Regulation.
- 13.5. Notwithstanding paragraphs 13.2 and 13.4, Contracting Parties applying this Regulation shall continue to accept type approvals issued according to this Regulation in its original form, for the vehicles/vehicle systems which are not affected by the changes introduced by the 01 series of amendments."
- 13.6. Contracting Parties applying this Regulation shall not refuse to grant type approvals according to any preceding series of amendments to this Regulation or extension thereof."

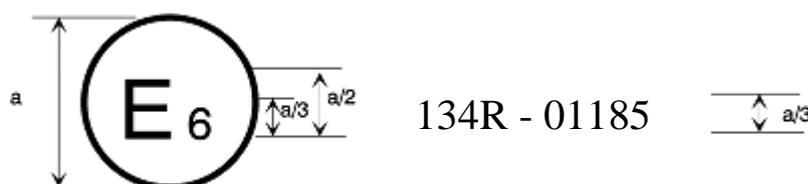
Annex 2, amend to read:

## "Annex 2

### Arrangements of the approval marks

Model A

(See paragraphs 4.4. to 4.4.2. of this Regulation)

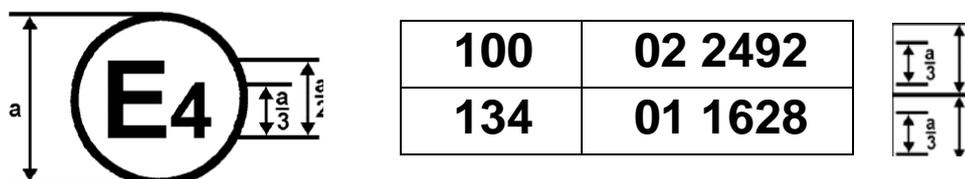


a = 8 mm min

The above approval mark affixed to a vehicle/ storage system/specific component shows that the vehicle/storage system/specific component type concerned has been approved in Belgium (E 6) for its the safety-related performance of hydrogen-fuelled vehicles pursuant to UN Regulation No. 134. The first two digits of the approval number indicate that the approval already contained the 01 series of amendments at the time of approval.

Model B

(See paragraph 4.5. of this Regulation)



a = 8 mm min.

The above approval mark affixed to a vehicle shows that the road vehicle concerned has been approved in the Netherlands (E 4) pursuant to UN Regulations Nos. 134 and 100.\* The approval number indicates that, at the dates when the respective approvals were granted, UN Regulation No. 100 was amended by the 02 series of amendments and UN Regulation No. 134 was amended by the 01 series of amendments."

\* The latter number is given only as an example.

*Insert a new Annex 6, to read:*

## "Annex 6

### **Provisions for a label for hydrogen vehicles of categories M<sub>2</sub>/N<sub>2</sub> and M<sub>3</sub>/N<sub>3</sub>.**

(Paragraph 7.1.7. of this Regulation)



The label shall be weather resistant.

The centre zone indicates the first energy source

The upper zone indicates the second energy source

The left zone indicates the gas behaviour due to density

The right zone indicates the state of aggregation of stored gaseous fuel

Layout and symbols shall be in accordance with ISO 17840-4:2018

The colour and dimensions of the label shall fulfil the following requirements:

Colours:

Background:	Light blue, RGB code 0, 176, 240
Border:	white reflecting
Letters and symbols:	white reflecting

Dimensions:

Sticker width:	≥ 110 mm
Sticker height:	≥ 80 mm"