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ANNEX II

GRADEABILITY OF OFF-ROAD VEHICLES

1. General

- 1.1. This Annex lays down the technical requirements for the purposes of verifying the gradeability of a vehicle in order to be categorised as off-road vehicle in accordance with Section 4 of Part A of Annex II to Directive 2007/46/EC.
- 1.2. The technical service shall verify if the complete or completed vehicle, or tractor unit for semi-trailer is to be considered as an off-road vehicle in accordance with the requirements laid down in Annex II to 2007/46/EC.
- 1.3. For incomplete vehicles, this verification shall be carried out only at the request of the manufacturer.

2. Test conditions

- 2.1. Vehicle conditions
- 2.1.1. The vehicle shall be set in the conditions recommended by the manufacturer and fitted with the equipment referred to in Annex I to Directive 2007/46/EC.
- 2.1.2. The adjustment of the brakes, clutch (or equivalent), engine and gear box shall be set in accordance with the manufacturer's recommendations for the purposes of use off the normal roads.
- 2.1.3. The tyres shall be those recommended for off-roads use. They shall have a tread depth of not less than 90 % of the tread depth of a new tyre. The tyre pressure shall be adjusted to the value recommended by the tyre manufacturer.
- 2.1.4. The vehicle shall be loaded at its technically permissible maximum laden mass with a load distribution proportional to the distribution of the maximum mass on the axles as stated by the manufacturer.

For example a vehicle of 7,5 tonnes with a maximum mass on the front axle of 4 tonnes and a maximum mass on the rear axle of 6 tonnes shall be tested with a mass of 3 tonnes (40 %) on the front axle and 4.5 tonnes (60 %) on the rear axle.

- 2.2. Test track conditions
- 2.2.1. The surface of the test track shall be dry, made of asphalt or concrete
- 2.2.2. The gradient shall show a continuous percentage of 25 % with a tolerance of + 3 % $(\theta = 14 \text{ degrees})$.
- 2.2.3. In agreement with the manufacturer, the test may be performed on a gradient that shows a percentage greater than 25 %. The test shall be conducted with maximum masses reduced in relation to the test conditions.

These conditions shall be reported.

2.2.4. The surface of the track shall show a good coefficient of adhesion.

The Skid Resistance Index ('SRI') of the surface shall be measured in accordance with Standard CEN/TS 13036-2: 2010 Road and airfield surface characteristics – Test methods – Part 2: Assessment of the skid resistance of a road pavement surface by use of dynamic measuring systems.

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The mean value of the SRI shall be reported.

3. Test procedure

- 3.1. The vehicle shall be first placed on a horizontal surface.
- 3.2. The mode of traction shall be set as for off-roads use. The gear(s) engaged shall allow a steady speed.
- 3.3. Sections 4 and 5 of Appendix 1 to Annex II to Directive 2007/46/EC shall apply.

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Changes and effects yet to be applied to:

- Annex 2 point 1.1 words substituted by S.I. 2022/1273 reg. 72(3)(a)
- Annex 2 point 1.2 words substituted by S.I. 2022/1273 reg. 72(3)(b)
- Annex 2 point 2.1.1 words substituted by S.I. 2022/1273 reg. 72(3)(c)
- Annex 2 point 3.3 words substituted by S.I. 2022/1273 reg. 72(3)(d)

Changes and effects yet to be applied to the whole legislation item and associated provisions

- Signature words omitted by S.I. 2022/1273 reg. 71(10)
- Annex 5 Pt. B s. 1 words substituted by S.I. 2022/1273 reg. 72(4)(c)(iii)
- Annex 5 Pt. B s. 2 words substituted by S.I. 2022/1273 reg. 72(4)(c)(iv)
- Annex 5 Pt. D s. 1 words substituted by S.I. 2022/1273 reg. 72(4)(e)(iii)
- Annex 1 Appendix 2 point 2.1 words substituted by S.I. 2022/1273 reg. 72(2)(e)(i)
- Annex 1 Appendix 2 point 2.2 words substituted by S.I. 2022/1273 reg. 72(2)(e)(ii) (aa)
- Annex 1 Appendix 2 point 2.2(c) words substituted by S.I. 2022/1273 reg. 72(2)(e)
 (ii)(bb)
- Annex 1 Appendix 4 point 1.3 words substituted by S.I. 2022/1273 reg. 72(2)(f)
- Art. 2(1) words substituted by S.I. 2022/1273 reg. 71(3)(b)
- Art. 2(2) words substituted by S.I. 2022/1273 reg. 71(3)(c)
- Art. 2(11) words substituted by S.I. 2022/1273 reg. 71(3)(d)
- Art. 2(40) words substituted by S.I. 2022/1273 reg. 71(3)(e)
- Art. 6(1)(1a) substituted for Art. 6(1) by S.I. 2022/1273 reg. 71(8)(a)